

Distr.
GENERAL

UNEP/OzL.Pro/ExCom/95/83
13 November 2024

ARABIC
ORIGINAL: ENGLISH

برنامج
الأمم المتحدة
للبيئة



اللجنة التنفيذية للصندوق المتعدد الأطراف
لتنفيذ بروتوكول مونتريال
الاجتماع الخامس والتسعون
مونتريال، 4 - 8 ديسمبر / كانون الأول 2024
البند 9(هـ) من جدول الأعمال المؤقت¹

ميزانية برنامج المساعدة على الامتثال التابع لبرنامج الأمم المتحدة للبيئة لعام 2025

مقدمة

1. قدم برنامج الأمم المتحدة للبيئة (اليونيب) ميزانية برنامج المساعدة على الامتثال لعام 2025 بتكلفة إجمالية قدرها 11,191,331 دولاراً أمريكياً، بالإضافة إلى تكاليف دعم الوكالة البالغة 895,306 دولارات أمريكية². ويتضمن التقديم التقرير المرحلي لعام 2024 وبرنامج العمل لعام 2025 وهو مرفق بهذه الوثيقة.
2. وتقدم خطة العمل المقترحة لبرنامج المساعدة على الامتثال لعام 2025 عن السنة الثانية من استراتيجية برنامج المساعدة على الامتثال لفترة السنوات الثلاث 2024-2026.

التقرير المرحلي لبرنامج المساعدة على الامتثال لعام 2024

3. يرد التقرير المرحلي الكامل في الجزء الثاني من التقديم المرفق بهذه الوثيقة. ويتضمن التقديم إشارات إلى النتائج والآثار ذات الصلة. وفيما يلي موجز للأنشطة التي نُفذت خلال الفترة من سبتمبر/أيلول 2023 إلى أغسطس/آب 2024:

(أ) تقديم المساعدة المتعلقة بالامتثال إلى 147 بلداً من البلدان العاملة بموجب المادة 5 وتقديم خدمات المساعدة على الامتثال المخصصة في 75 بلداً؛ ودعم تنفيذ مشروعات التعزيز المؤسسي في 103

¹ UNEP/OzL.Pro/ExCom/95/1

² يأتي هذا الطلب على أساس استثنائي ويزيد بمقدار 297,195 دولاراً أميركياً عن الحد الأقصى للزيادة البالغة 3 في المائة سنوياً في ميزانية برنامج المساعدة على الامتثال لبرنامج الأمم المتحدة للبيئة (اليونيب) في المقرر 24/47 قبل احتساب الزيادة الإضافية البالغة 150,000 دولار أميركي في ميزانية عام 2025 الموافق عليها في المقرر 95/93.

بلدان، ورصد وضع المادة 7 وإعداد التقارير عن بيانات برامج البلد بانتظام، واتخاذ إجراءات المتابعة حسب الحاجة؛ وتشجيع إشراك وحدات الأوزون الوطنية في عمليات صنع القرار الوطني؛

(ب) دعم البلدان الفردية لتحديث القوانين والأنظمة ذات الصلة ورصدها وإنفاذها، مثل مساعدة البلدان في إنشاء أو تعزيز نظم إصدار تراخيص وحصص للمواد الهيدروفلوروكربونية وتعزيز النظام التنظيمي للرقابة على المواد الهيدروكلوروفلوروكربونية ومكافحة التجارة غير المشروعة؛ ومواصلة الشراكة مع منظمة الجمارك العالمية لتوفير المعلومات المناسبة ومواد التدريب لموظفي الجمارك وموظفي الأوزون الوطنيين بشأن القضايا المتعلقة بتجارة المواد الخاضعة للرقابة، وعمليات الإنفاذ، وأفضل الممارسات والنهج المبتكرة، وسبل مكافحة التجارة غير المشروعة للمواد الخاضعة للرقابة؛

(ج) دعم إعداد و/أو تقديم وتنفيذ خطط إدارة إزالة المواد الهيدروكلوروفلوروكربونية في 105 بلدان (77 بلدا كوكالة رائدة و28 بلدا كوكالة متعاونة)، وخطط التنفيذ المتعلقة بالمواد الهيدروفلوروكربونية بموجب تعديل كيغالي في 24 بلدا (10 بلدان كوكالة رائدة و14 بلدا كوكالة متعاونة)؛

(د) بالإضافة إلى ذلك، ساعد في إعداد و/أو تقديم المشروعات الموافق عليها في الاجتماعين الثالث والتسعين والرابع والتسعين، بما في ذلك 13 تقريراً للتحقق من خطط إدارة إزالة المواد الهيدروكلوروفلوروكربونية، و39 مشروعاً لتعزيز المؤسسي، و15 مشروعاً متعلقاً بكفاءة استخدام الطاقة بموجب المقرر 6/89، ومشروعات بموجب المقرر 65/91، و27 مشروعاً بشأن المخزونات الوطنية لبنوك المواد الخاضعة للرقابة غير المرغوب فيها وخطط العمل، بما يتماشى مع المقرر 66/91؛

(هـ) استمرار تشغيل الشبكات الإقليمية لموظفي الأوزون الوطنيين وتنظيم ما مجموعه 20 اجتماعاً شبكياً ومواضيعياً، و29 اجتماعاً آخر (في المقام الأول حضورياً، ولكن أيضاً مختلطاً وعبر شبكة الإنترنت) حول مواضيع مختلفة ذات صلة بالامتثال لبروتوكول مونتريال وتعديل كيغالي الخاص به؛ وتدريب 35 من موظفي الأوزون الوطنيين الجدد والمساعدين (بمن في ذلك 21 امرأة) في ست مناطق من خلال برنامج تدريب موظفي الأوزون الوطنيين لزيادة قدرة موظفي الأوزون الوطنيين على التعامل مع القضايا الناشئة وتسهيل تبادل المعلومات وأفضل الممارسات؛ وتجريب جلستين تدريبيتين متقدمتين جديتين لموظفي الأوزون الوطنيين ومواد لـ 17 من موظفي الأوزون الوطنيين ذوي الخبرة (بمن في ذلك 11 امرأة)؛

(و) استمرار الترويج لبرنامج رخصة قيادة غازات التبريد، الذي تم إطلاقه في يوليو/تموز 2023، والعمل حالياً مع الشركاء وأعضاء المجلس الاستشاري لتحويل الموارد التي تم تطويرها في إطار البرنامج إلى مجموعة أدوات من الوثائق المفيدة التي يمكن للبلدان إدراجها في نظم إصدار شهادات الاعتماد الوطنية الحالية والجديدة. وفي إطار برنامج التدريب العالمي لقطاع خدمة التبريد، نظم اليونيب دورات تدريبية بشأن التعرف على غازات التبريد وكفاءة استخدام الطاقة، والتي استقطبت

156 تسجيلاً للالتحاق بها، بالإضافة إلى مطالبة 23 مؤسسة تعليمية في البلدان العاملة بموجب المادة 5 لدورات جامعية بشأن إدارة غازات التبريد لطلاب الهندسة؛

(ز) تطوير منتجات وخدمات بناء القدرات والمعلومات الإقليمية والعالمية بما في ذلك نشرات الحقائق والمنشورات وتطبيقات سطح المكتب والهواتف الذكية وأدلة التدريب؛ والحفاظ على الموقع الشبكي لبرنامج عمل الأوزون على نحو محدث؛ وإعداد وتوزيع 22 نشرة إخبارية نصف شهرية وثلاثة إصدارات خاصة من OzoNews؛ لزيادة التوعية العامة في البلدان التي تتلقى المساعدة من خلال الاحتفال باليوم العالمي للأوزون، والتعاون مع أمانة اليوم العالمي للتبريد وجمعيات الصناعة في جميع أنحاء العالم للاحتفال باليوم العالمي للتبريد تحت شعار حملة 2024 "درجة الحرارة مهمة: بالتأكيد"، وروج برنامج عمل الأوزون لهذا من خلال منشورات على وسائل التواصل الاجتماعي مثل "4 أسباب تجعل درجة الحرارة مهمة"؛

(ح) استمرار وتوسيع الشراكات مع العديد من جمعيات الصناعة³ وبالتعاون مع جمعية تكييف الهواء والتبريد الأوروبية، تم تطوير وحدة تدريبية إضافية بشأن كفاءة استخدام الطاقة لدليل التدريب الذي تم إعداده بشكل مشترك حول الخدمة وأفضل الممارسات المتبعة في مجال غازات التبريد، والمصمم في شكل وحدات تجميعية تمكن المستخدمين من تصميم برامج التدريب الخاصة بهم وفقاً للاحتياجات المحلية؛ وترجمة الوحدات التجميعية الموجودة إلى اللغة الإسبانية؛ وتم تحديث قاعدة بيانات Whatgas لتعكس أحدث المعلومات عن المواد؛ وتم تطوير مجموعة جمع البيانات لقطاع خدمة تكييف الهواء المتنقل؛ ومساعدة موظفي الأوزون الوطنيين في الخيارات التنظيمية والسياسية لتعزيز كفاءة استخدام الطاقة وتنفيذ المعايير الدنيا لأداء الطاقة باستخدام أدوات مثل نظم تسجيل المنتجات؛

(ط) دعم تنفيذ السياسة التشغيلية للصندوق المتعدد الأطراف بشأن تعميم المنظور الجنساني على مستوى المشروع وفي خدمات برنامج المساعدة على الامتثال من خلال إدراج موارد تعميم المنظور الجنساني على الموقع الشبكي لبرنامج عمل الأوزون؛ وإعداد دليل وترجمته إلى اللغات الأربع للأمم المتحدة لمساعدة وحدات الأوزون الوطنية في تعميم المنظور الجنساني في تنفيذ بروتوكول مونتريال؛ واستضافة حلقة عمل إقليمية واحدة للنساء التقنيات والعديد من حلقات العمل الإقليمية حول تعميم المنظور الجنساني في شبكة موظفي الأوزون الوطنيين و/أو الاجتماعات المواضيعية؛ ومواصلة تنظيم فعاليات الشبكة الدولية للنساء في مجال التبريد لإشراك النساء وتعزيز فرص العمل وزيادة مشاركتهن الإجمالية في قطاع التبريد وتكييف الهواء؛ وتنظيم حملة لليوم العالمي للمرأة لعام 2024 تحت شعار "الاستثمار في النساء، وتسريع التقدم"، والتي تضمنت قصص نجاح تسع نساء من مجتمع بروتوكول مونتريال، يمثلن مؤسسات مختلفة ووحدات الأوزون الوطنية وأصحاب المصلحة،

³ الجمعية الأمريكية لمهندسي التدفئة والتبريد وتكييف الهواء، والمعهد الدولي للتبريد، ومعهد تكييف الهواء والتدفئة والتبريد، والجمعية الهندسية لمهندسي التدفئة والتبريد وتكييف الهواء، واتحاد الرابطة الإيبيرية الأمريكية للتكييف والتبريد واتحاد رابطات الجهات الفاعلة الأفريقية في مجال التبريد وتكييف الهواء.

ميرزات قيادتهن ودورهن في حماية البيئة.

تقرير عن الدعم التقني والسياساتي للبلدان ذات الاستهلاك المنخفض لدعم تنفيذ خطة التنفيذ المتعلقة بالمواد الهيدروفلوروكربونية بموجب تعديل كيغالي

4. بموجب المقرر 95/93 (د)، وافقت اللجنة التنفيذية على زيادة ميزانية برنامج المساعدة على الامتثال للأعوام 2024 و 2025 و 2026 لتقديم المساعدة التقنية والسياساتية للبلدان ذات الاستهلاك المنخفض لدعم تنفيذ خطة التنفيذ المتعلقة بالمواد الهيدروفلوروكربونية بموجب تعديل كيغالي، على أساس فهم، من بين أمور أخرى، أن اليونيب سوف يقدم تقريراً عن أنشطة المساعدة التقنية والسياساتية المقدمة إلى البلدان ذات حجم الاستهلاك المنخفض وتأثيرها كجزء من التقارير المرحلية السنوية لبرنامج المساعدة على الامتثال.

5. وبما يتماشى مع المقرر 95/93 (د) (2)، قدم اليونيب تقريراً عن الأنشطة الرامية إلى دعم البلدان ذات حجم الاستهلاك المنخفض. وحتى وقت تقديم التقرير السنوي لبرنامج المساعدة على الامتثال، حدد اليونيب أربع مجالات ذات أولوية لتقديم المساعدة الخاصة إلى البلدان ذات حجم الاستهلاك المنخفض. وهذه المجالات هي: (1) تعزيز قدرة البلدان ذات حجم الاستهلاك المنخفض على تنفيذ نظم إصدار التراخيص والحصص للمواد الهيدروفلوروكربونية وجمع البيانات عن اتجاهات استهلاك المواد الهيدروفلوروكربونية؛ (2) بناء قدرات وحدات الأوزون الوطنية في قطاع تكييف الهواء المتنقل من أجل اتخاذ الإجراءات المبكرة وتقييم اتجاهات الاستهلاك؛ (3) مساعدة وحدات الأوزون الوطنية في تحديد الاستهلاك في القطاع الفرعي للتركيب والتجميع المحليين وتحويل المنشآت في هذا القطاع الفرعي إلى بدائل ذات إمكانية منخفضة للاحتراز العالمي من خلال أنشطة غير استثمارية؛ (4) تدريب موظفي برنامج المساعدة على الامتثال على كفاءة استخدام الطاقة والمعايير الدنيا لأداء الطاقة، بهدف توفير موظفين مجهزين بشكل أفضل لتقديم المساعدة المناسبة لوحدات الأوزون الوطنية وأصحاب المصلحة في البلدان ذات حجم الاستهلاك المنخفض، وتحديد احتياجات وفرص كفاءة استخدام الطاقة، ودعم وضع وتنفيذ سياسات وتدابير مناسبة لكفاءة استخدام الطاقة في البلدان ذات حجم الاستهلاك المنخفض.

6. وبالنسبة للمجالات الثلاثة الأولى ذات الأولوية، يجري الانتهاء من وضع الاختصاصات للاستشاريين لدعم تنفيذ الأنشطة ذات الصلة، ومن المتوقع أن يجري تعيين الاستشاريين بحلول ديسمبر/كانون الأول 2024. ومن المتوقع أن تكتمل جميع الأنشطة قبل نهاية عام 2025 بما يتماشى مع فترة الـ 24 شهراً لاستخدام مخصصات التمويل لعام 2024 بموجب المقرر.

تقرير عن مشروع المساعدة التقنية العالمية للتوأمة بين موظفي الأوزون وصناع سياسات كفاءة استخدام الطاقة لدعم أهداف تعديل كيغالي

7. في الاجتماع الحادي والتسعين، وافقت اللجنة التنفيذية على المرحلة الأولى (2023-2024) من مشروع المساعدة التقنية العالمية للتوأمة بين موظفي الأوزون الوطنيين وصناع السياسات الوطنية لكفاءة استخدام الطاقة لدعم

أهداف تعديل كيغالي⁴ (المشار إليه فيما بعد باسم مشروع التوأمة). وبموجب المقرر 91/93 (هـ)، طُلب من اليونيب تقديم تقرير نهائي يوضح الدروس المستفادة من تنفيذ المرحلة الأولى من مشروع التوأمة، عند تقديم المرحلة الثانية من المشروع في الاجتماع الثاني في عام 2024.

8. وبما أن المشروع لا يزال قيد التنفيذ، ومن المقرر إتمامه في 31 ديسمبر/كانون الأول 2024، قدم اليونيب تحديثاً عن التقدم المحرز منذ تقرير منتصف المدة المقدم إلى الاجتماع الثالث والتسعين، والذي يغطي الفترة من 1 سبتمبر/أيلول 2023 إلى 31 أغسطس/آب 2024.

9. وأفاد اليونيب بتحقيق إنجازات مهمة في جميع المجالات الرئيسية، بما في ذلك التنفيذ الناجح لثماني حلقات عمل توأمة عقدت بالتتابع مع اجتماعات الشبكة خلال الفترة المشمولة بالتقرير. وعقدت أول حلقة عمل توأمة لأوروبا وآسيا الوسطى وغرب آسيا قبل الاجتماع الثالث والتسعين. ومنذ ذلك الحين، عقدت سبع اجتماعات إضافية لجزر المحيط الهادئ وجنوب آسيا وجنوب شرق آسيا ومنطقة البحر الكاريبي وأمريكا اللاتينية والمناطق الأفريقية الناطقة باللغة الإنجليزية واللغة الفرنسية. ويجري إعداد تقرير عن أحدث حلقة عمل للشبكة الأفريقية الناطقة بالفرنسية، التي عقدت يومي 10 و11 أكتوبر/تشرين الأول 2024، وتم الانتهاء من التقارير لجميع حلقات العمل السابقة والتي سيتم إدراجها في التقرير النهائي عن المرحلة الأولى الذي هو قيد الإعداد حالياً. وستقدم التقارير الفردية الحصائل والنتائج والتوصيات الرئيسية لكل حلقة عمل، وستوجه إعداد استراتيجيات للمراحل المستقبلية من المشروع، مما يضمن دمج الدروس المستفادة بشكل فعال. وسوف يقدم التقرير النهائي معلومات من شأنها أن تساعد في المرحلة الثانية وتعكس التحديات والفرص التي تم تحديدها خلال المرحلة الأولى، حيث تهدف المرحلة الثانية إلى توسيع أثر المشروع وتعزيز قدرة البلدان العاملة بموجب المادة 5 على الوفاء بالتزاماتها المتعلقة بالأوزون بشكل أكبر مع معالجة العمل المناخي في نفس الوقت.

10. وقد سلّطت حلقات العمل الضوء على الدور الحاسم لدمج كفاءة استخدام الطاقة مع جهود حماية طبقة الأوزون والعمل المناخي، حيث قدمت للمشاركين رؤية عملية حول دراسات الحالة الناجحة والتكنولوجيات الناشئة وأطر السياسات المبتكرة. وفي موجز للنتائج والاستنتاجات الرئيسية الأولية للمشروع، أشار اليونيب إلى أن حلقات العمل مهدت الطريق للتقدم المستدام في حلول التبريد المستدامة وعززت الالتزام المشترك بمعالجة التحديات المترابطة لحماية طبقة الأوزون والعمل المناخي وكفاءة استخدام الطاقة. كما سلّطت حلقات العمل الضوء على الدور الحاسم لإشراك أصحاب المصلحة ومشاركة القطاع الخاص في قيادة اعتماد التكنولوجيات ذات الإمكانية المنخفضة للاحترار العالمي وممارسات كفاءة استخدام الطاقة. وتتضمن النتائج الرئيسية من حلقات العمل تعزيز التعاون الوطني والإقليمي والدولي؛ والاعتراف بالحاجة إلى وضع أطر سياساتية استراتيجية، حيث يكون النهج الإقليمي ضرورياً للتغلب على الحواجز أمام كفاءة استخدام الطاقة والتخفيض التدريجي لغازات التبريد وإدخالها تدريجياً؛ والاعتراف بقيمة اعتماد المعايير الدنيا لأداء الطاقة وتطبيقها ووضع العلامات على الطاقة كأدوات حيوية لتحويل الأسواق والحد من انبعاثات غازات الدفيئة؛ والاعتراف بأن نظم جمع البيانات وإدارتها القوية ضرورية لصنع السياسات والرصد الفعالين.

⁴ المقرر 91/42.

11. وسوف يقدم اليونيب التقرير النهائي، الذي يتضمن تفاصيل الدروس المستفادة، إلى جانب الاقتراح الخاص بالمرحلة الثانية، إلى الاجتماع السادس والتسعين للنظر فيه.

برنامج عمل برنامج المساعدة على الامتثال لعام 2025

12. تم إعداد خطة العمل لعام 2025 في سياق استراتيجية الفترة 2024-2026 المشار إليها في المقرر 91/93(أ). وسينفذ اليونيب الأنشطة التالية دعماً للنتائج المحددة في إطار الاستراتيجية الممتدة لثلاث سنوات والنتائج المحددة لعام 2025، والمدرجة في خطة العمل الكاملة الواردة في الجزء الأول من التقديم المرفق:

(أ) مواصلة تقديم المساعدة التقنية في رصد وإعداد التقارير وتنفيذ مشروعات التعزيز المؤسسي، وبناء

على الطلب، تقديم المساعدة الخاصة بكل بلد من البلدان العاملة بموجب المادة 5 لمعالجة قضايا تقنية أو سياسية أو تشغيلية محددة؛ وتنظيم اجتماعات الشبكة في جميع المناطق والمناطق الفرعية العشر لمعالجة القضايا ذات الأولوية التي تطلبها البلدان الأعضاء في الشبكة، وتبادل المعلومات، ومشاركة الخبرات؛ ومواصلة بناء القدرات من خلال إجراء التدريب لجميع موظفي الأوزون الجدد والمساعدين والتدريب المتقدم للموظفين المهتمين لتحسين إدارة وحدات الأوزون الوطنية؛ وتطوير وتجريب تدريب قصير على مهارات التفاوض بشأن بروتوكول مونتريال لموظفي الأوزون الوطنيين للمشاركة الفعالة في اجتماعات بروتوكول مونتريال والصندوق المتعدد الأطراف؛

(ب) مساعدة وحدات الأوزون الوطنية المهتمة على فهم منهجية إنشاء مخزونات بنوك المواد الخاضعة للرقابة المستخدمة أو غير المرغوب فيها وتحديد الاستراتيجيات المحتملة ونماذج الأعمال لنهاية عمر هذه المواد؛ وتشجيع الأنشطة بين البلدان لتلبية الاحتياجات المحددة وتعزيز التعاون فيما بين بلدان الجنوب؛ ودعم وحدات الأوزون الوطنية في استكشاف أوجه التآزر المتعلقة بتنفيذ تعديل كيغالي؛

(ج) رصد ودعم متطلبات الإبلاغ عن البيانات ودعم وحدات الأوزون الوطنية في استخدام نظم الإبلاغ عبر الإنترنت؛ ومواصلة دعم البلدان العاملة بموجب المادة 5 لتحديد واعتماد أفضل الممارسات لجمع البيانات والتحقق الكامل منها وتسويتها وإعداد التقارير بشأنها، وخاصة بالنسبة للمواد الهيدروفلوروكربونية، ومساعدة وحدات الأوزون الوطنية حسب الحاجة في فهم حسابات خط الأساس للمواد الهيدروفلوروكربونية ونقاط البداية للتخفيضات الإجمالية المستدامة؛ وتطوير أداة لمساعدة وحدات الأوزون الوطنية في تتبع ورصد استخدام حصص المواد الهيدروفلوروكربونية بأطنان مكافئة من ثاني أكسيد الكربون؛

(د) مواصلة مساعدة البلدان العاملة بموجب المادة 5 في تطوير وتنقيح وتنفيذ السياسات والأنظمة بما في ذلك تلك المتعلقة بتنفيذ أو تعزيز نظم إصدار التراخيص والحصص للمواد الهيدروفلوروكربونية، وتعزيز الرصد والإبلاغ والتحقق والإنفاذ للمواد الهيدروكلوروكربونية؛ ومواصلة تعزيز

الأدوات القائمة (على سبيل المثال، دليل الإبلاغ عن البيانات، والموافقة المسبقة غير الرسمية المستتيرة، وحاسبات الحصص، من بين أمور أخرى) وتعزيز اعتماد نظم إصدار التراخيص الإلكترونية؛ ومساعدة البلدان العاملة بموجب المادة 5 التي لم تصدق بعد على تعديل كيغالي على التصديق عليه، ودعم هذه البلدان في إدخال نظم إصدار التراخيص والحصص للمواد الهيدروفلوروكربونية؛ وتشجيع اعتماد تدابير السياسات المتعلقة بإخماد الحرائق وإدارة دورة حياة غازات التبريد؛

(هـ) مواصلة التعاون مع وكالات الجمارك والإنفاذ لدمج العمل المتعلق ببروتوكول مونتريال في عملياتها ومسارات عملها المختلفة، وتعزيز أدوات ومواد التدريب (على سبيل المثال، تطبيق سطح المكتب لتتبع حصص وتراخيص المواد الهيدروكلوروفلوروكربونية)؛ ودعم تدريب ضباط الإنفاذ وتشجيع التعاون مع الوسطاء الجمركيين بشأن التصنيف الصحيح لغازات التبريد؛ والتعاون مع المنظمات الإقليمية و/أو دون الإقليمية والسلطات الجمركية لتنفيذ رموز النظام المنسق 2027؛ وتشجيع وحدات الأوزون الوطنية على دعم مشاركة جماركها في برنامج منظمة الجمارك العالمية للاتجار عبر الحدود في النفايات والمواد المستنفدة للأوزون؛ وتعزيز مفهوم الجمارك الخضراء وإدراج جلسة ذات صلة في اجتماعات الإنفاذ؛

(و) مواصلة تنفيذ أنشطة غرفة تبادل المعلومات العالمية من خلال نشر موجزات تقنية بشأن غازات التبريد والتكنولوجيات البديلة؛ وصيانة الموقع الشبكي لبرنامج عمل الأوزون ونشر منشور OzoNews النصف شهري وثلاثة منشورات موضوعية خاصة؛ وتعزيز دعم بروتوكول مونتريال من خلال أنشطة التوعية الإقليمية التي اتفقت عليها البلدان في اجتماعات الشبكة؛ وتشجيع وحدات الأوزون الوطنية والسلطات الجمركية على المشاركة في اليوم العالمي للتبريد واليوم العالمي للجمارك لعرض أعمال الرصد والإنفاذ؛

(ز) دعم جميع وحدات الأوزون الوطنية بالتدريب في قطاع خدمة التبريد من خلال توفير منتجات وأدوات التدريب والمعلومات بشأن غازات التبريد والتكنولوجيات البديلة، والإدارة السليمة لغازات التبريد وقطاع التركيب والتجميع المحليين؛ ومواصلة أنشطة بناء القدرات المدعومة من قبل اليونيب للتقنيين في مجال الخدمة؛ ومساعدة الجامعات المهمة على إدراج دورات إدارة غازات التبريد في مناهجها الهندسية؛ وتقديم التوجيه لوحدات الأوزون الوطنية بشأن إنشاء أو تعزيز برامج إصدار شهادات الاعتماد للتقنيين؛ وتعزيز الموائد المستديرة والعروض المتنقلة في مجال Ozone2Climate؛ ومواصلة دعم قدرات وحدات الأوزون الوطنية فيما يتعلق بالمواد الهيدروفلوروكربونية والبدائل المستخدمة في قطاعات تكييف الهواء المتنقل وسلسلة التبريد؛

(ح) تطوير مواد بناء القدرات الجديدة و/أو مشاركة مواد بناء القدرات القائمة المتعلقة بكفاءة استخدام الطاقة وغازات التبريد ذات الإمكانية المنخفضة للاحتراز العالمي على أساس الاحتياجات التي تم تحديدها في حلقات عمل التوأمة ومتابعة التوصيات من المرحلة الأولى من هذا البرنامج؛ وتشجيع

استخدام غازات التبريد والتكنولوجيات ذات الإمكانية المنخفضة للاحترار العالمي والكفاءة في استخدام الطاقة؛ ودعم التعاون بين وحدات الأوزون الوطنية وصناع السياسات الوطنية لكفاءة استخدام الطاقة؛ ومواصلة تقديم مناهج تدريبية محدثة للتقنيين بشأن تركيب وصيانة معدات التبريد وتكييف الهواء ذات الكفاءة في استخدام الطاقة ودعم وحدات الأوزون الوطنية في وضع السياسات أو الأنظمة لتعزيز كفاءة استخدام الطاقة في معدات التبريد وتكييف الهواء؛

(ط) دعم وحدات الأوزون الوطنية لإتمام تقييمات المنظور الجنساني، حسب الاقتضاء، كجزء من المتطلبات الإلزامية لتنفيذ سياسة تعميم المنظور الجنساني في الصندوق المتعدد الأطراف؛ وتشجيع ومساعدة جميع وحدات الأوزون الوطنية على تعزيز مشاركة وتمكين المرأة في قطاع التبريد وتكييف الهواء من خلال زيادة التوعية والمعلومات والتدريب؛ ومواصلة إدراج تعميم المنظور الجنساني كموضوع في اجتماعات الشبكة الإقليمية؛ وتقديم فرص التواصل والتوجيه من خلال الشبكة الدولية للنساء في مجال التبريد؛

(ي) مواصلة دعم إعداد مشروع خطط التنفيذ المتعلقة بالمواد الهيدروفلوروكربونية بموجب تعديل كيغالي، والمشروعات الرامية إلى الحفاظ على كفاءة استخدام الطاقة و/أو تعزيزها في معدات التبريد وتكييف الهواء، والمشروعات الرامية إلى دعم إعداد المخزونات الوطنية لبنوك المواد الخاضعة للرقابة المستخدمة أو غير المرغوب فيها؛ وتنفيذ خطط التنفيذ المتعلقة بالمواد الهيدروفلوروكربونية بموجب تعديل كيغالي الموافق عليها وخطط إدارة إزالة المواد الهيدروكلوروفلوروكربونية الجارية؛ وإعداد تقارير التحقق.

التغييرات في ميزانية برنامج المساعدة على الامتثال لعام 2025

13. يرد في الجزء الثالث من التقديم المرفق الميزانية المقترحة لبرنامج المساعدة على الامتثال لعام 2025، والتي تبلغ 11,191,331 دولارا أمريكيا، بالإضافة إلى تكاليف دعم الوكالة البالغة 895,306 دولارات أمريكية (8 في المائة). ويزيد إجمالي طلب ميزانية برنامج المساعدة على الامتثال قبل تطبيق المخصص الإضافي البالغ 150,000 دولار أمريكي في المقرر 95/93 (أي 11,041,331 دولارا أمريكيا، بالإضافة إلى تكاليف دعم الوكالة)، بنسبة 5.85 في المائة عن الميزانية الموافق عليها في عام 2024 (أي 10,431,200 دولار أمريكي، بالإضافة إلى تكاليف دعم الوكالة، باستثناء المخصص الإضافي البالغ 200,000 دولار أمريكي في المقرر 95/93). وتتجاوز الميزانية المقترحة الحد الأقصى للزيادة السنوية في الميزانية بنسبة 3 في المائة المسموح بها بموجب المقرر 24/47 (أ) (3)⁵ بمقدار 297,195 دولارا أمريكيا عندما لا يتم احتساب المخصصات الإضافية لعامي 2024 و2025. ويطلب اليونيب الموافقة على هذه الزيادة على أساس استثنائي، بناءً على استعراض متعمق للنفقات وعلى التعقيبات من البلدان العاملة بموجب المادة 5 حول مستوى الدعم المطلوب لتحقيق هدف إزالة المواد الهيدروكلوروفلوروكربونية في عام 2025 بنسبة 67.5 في المائة، وتجميد المواد الهيدروفلوروكربونية في عام 2024 وأهداف التخفيض المقبلة، والتطورات الأخيرة

⁵ يجب أن تقتصر طلبات الزيادات المستقبلية في ميزانية برنامج المساعدة على الامتثال على 3 في المائة، ما لم يتم تزويد اللجنة التنفيذية بدليل على أن ضغوط التضخم تبرر خلاف ذلك.

الأخرى في إطار الصندوق المتعدد الأطراف.

التغييرات في الميزانية البرنامجية⁶

14. تمثل الميزانية المقترحة، من بين جملة أمور، زيادات في عدد الموظفين وبنود الموظفين بنسبة 2.99 في المائة لتغطية تكاليف التضخم للوظائف المشغولة بشكل رئيسي؛ وزيادة بنسبة 5 في المائة في تكاليف السفر؛ و20 في المائة في تكاليف الأنشطة والاجتماعات الإقليمية؛ و13.33 في المائة في تكاليف الخدمات العالمية.

التغييرات في موظفي برنامج المساعدة على الامتثال⁷

15. أشار اليونيب إلى أنه من بين المناصب الثلاثة الجديدة المتفق عليها في الاجتماع الثالث والتسعين، تم الإعلان عن اثنين وسيتم إغلاق باب التقدم لشغلها قريباً، وتم تصنيف واحد من قبل مكتب الأمم المتحدة في نيروبي للإعلان الفوري عنه؛ وإلى جانب زيادات التضخم السنوية في أعداد الموظفين، يقترح اليونيب تعديلات على بنود الميزانية المرتبطة بالمناصب الموضحة أدناه، لتعكس المسؤوليات الجديدة والمعاد هيكلتها:

(أ) بنود الميزانية 1301 و1345 (خ6) - إعادة تصنيف منصب المساعد الرئيسي لرئيس الفرع والمساعد الإداري العالمي إلى مستوى خ7 بما يتفق مع مستوى المساعدين الكبار في اليونيب الذين يؤدون مهام مماثلة في الشعب الأخرى؛

(ب) بنود الميزانية 1342 (خ5) - إعادة تصنيف منصب المساعد الإداري العالمي إلى مستوى خ6 بما يتفق مع مستوى المساعدين الإداريين الذين يؤدون واجبات مماثلة في الشعب الأخرى.

مكون السفر

16. وقد سجلت بنود ميزانية برنامج المساعدة على الامتثال 1601-1651 المخصصة للسفر نمواً بنسبة صفر في المائة على مدى فترة الثلاث سنوات الممتدة من عام 2020 إلى عام 2023. ومع ذلك، فقد ظلت تكاليف السفر والتكاليف المرتبطة بها تزداد باستمرار وهي أعلى الأونة الأخيرة. ويعزى اقترح زيادة قدرها 5 في المائة إلى زيادة أسعار تذاكر الطيران العالمية، وارتفاع تكلفة بدل المعيشة اليومي، ووسائل النقل بين مكان الإقامة ونقطة المغادرة ومن نقطة الوصول إلى الفندق، والعكس صحيح.

مكون الأنشطة الإقليمية

17. وتغطي البنود 2210-2251 من ميزانية برنامج المساعدة على الامتثال للأنشطة الإقليمية الاجتماعات الشبكية والمواضيعية والتعاون بين البلدان وزيادة التوعية الإقليمية، والتي يقترح زيادة قدرها 20 في المائة لها. وانخفضت

⁶ المقرر 91/93(د2): طلب من اليونيب في التقديمات المستقبلية لميزانية برنامج المساعدة على الامتثال، أن يواصل توسيع نطاق تحديد أولويات التمويل بين بنود ميزانية برنامج المساعدة على الامتثال بحيث يستوعب الأولويات المتغيرة وتقديم التفاصيل، وفقاً للمقررين 24/47 و26/50، بشأن عمليات إعادة التخصيص التي أجريت.

⁷ المقرر 91/93(د3): طلب من اليونيب في التقديمات المستقبلية لميزانية برنامج المساعدة على الامتثال، أن يقدم تقريراً "عن مستويات الوظائف الحالية للموظفين وإبلاغ اللجنة التنفيذية بأي تغييرات تطرأ عليها، وخاصة فيما يتعلق بأي زيادة في مخصصات الميزانية".

ميزانية هذه الفئة من الإنفاق بشكل طفيف في عام 2022 وظلت على نفس المستوى من عام 2023 إلى عام 2024. وتعزى الزيادة المطلوبة بشكل أساسي إلى ارتفاع تكلفة سفر المشاركين لحضور الاجتماعات الحضرية، والزيادة في استئجار الأماكن والخدمات المرتبطة بها، وفي المساعدة بين البلدان وأنشطة التوعية الإقليمية لمراعاة الطلب المتزايد على هذه الخدمات. ويشمل عنصر الميزانية هذا أيضاً طلباً للحصول على دعم مالي إضافي لتمكين برنامج المساعدة على الامتثال من تسهيل زيادة في المساعدة بين البلدان.

مكون الخدمات العالمية

18. تماشياً مع المقرر 95/93(د) وإدراكاً لأهمية استمرار البلدان ذات حجم الاستهلاك المنخفض في الحصول على أولوية عالية لمساعدات برنامج المساعدة على الامتثال، أدرج اليونيب بند الميزانية 3216 بمبلغ 150 000 دولار أميركي. وفي عام 2025، وبعد تحديد البلدان ذات حجم الاستهلاك المنخفض في مرحلة تنفيذ خطط التنفيذ المتعلقة بالمواد الهيدروفلوروكربونية بموجب تعديل كيغالي، والتي يعد اليونيب الوكالة المنفذة الرائدة لها، سيقدم اليونيب دعماً إضافياً من خلال الأنشطة الموضحة في الفقرة 5 أعلاه.

19. وقد أُضيف بند الميزانية 3213 للسماح بتوظيف خبراء تقنيين في مجال كفاءة استخدام الطاقة. وهذا مجال يتطلب، كما تم تحديده سابقاً، خبرة إضافية على مستوى الوكالة المنفذة من أجل مساعدة البلدان بشكل أفضل. وبناءً على ذلك، تتضمن هذه الميزانية مخصصاً قدره 150,000 دولار أميركي لتوظيف اثنين إلى ثلاثة من كبار الخبراء في مجال كفاءة استخدام الطاقة كاستشاريين لدعم فريق برنامج المساعدة على الامتثال في الاستجابة لاحتياجات البلدان العاملة بموجب المادة 5، وخاصة تلك التي تحتاج إلى المساعدة لتقديم مشروعات متعلقة بكفاءة استخدام الطاقة بموجب مقررات اللجنة التنفيذية ذات الصلة. كما سيقدم الاستشاريون المساعدة التقنية في تحديد مجالات العمل حيث يمكن أن يكون تدخل اليونيب مفيداً للبلدان العاملة بموجب المادة 5. وتستند التكلفة المقدرة إلى أسعار الاستشارات القياسية على مستويات مختلفة من الخبرة وفقاً لأنظمة وقواعد الأمم المتحدة. ومن المقصود أن يكون هذا المطلب قصير الأجل، وسيتم إعادة النظر فيه في الميزانيات اللاحقة لبرنامج المساعدة على الامتثال.

20. وقد تم تخفيض التكلفة في بند الميزانية 4210 للاجتماعات الاستشارية والتشاورية من 20,000 دولار أميركي إلى 5,000 دولار أميركي لعام 2025، وفقاً للمقرر 91/93(د)(2) الذي يطلب من اليونيب مواصلة توسيع أولوية التمويل بين بنود ميزانية برنامج المساعدة على الامتثال لاستيعاب الأولويات المتغيرة.

مقارنة الميزانية للفترة 2025-2023

21. وتماشياً مع المقرر 91/93(د)(4)⁸، قدم اليونيب مقارنة لميزانية برنامج المساعدة على الامتثال لثلاث سنوات كما هو مبين في الجدول 1.

⁸ المقرر 91/93(د)(4): طلب من اليونيب في التقديمات المستقبلية لميزانية برنامج المساعدة على الامتثال، أن يواصل تقديم الميزانية للسنة المعنية، وتقدير عن التكاليف المتكبدة في السنة السابقة لآخر سنة، مع الإشارة إلى الفترتين الفرعيتين (د)(2) و(د)(3).

الجدول 1: ميزانية برنامج المساعدة على الامتثال للفترة 2023-2025 (بالدولار الأمريكي)

بند الميزانية	2023			2024		2025
	الموافق عليه	الإنفاق	الرصيد	الموافق عليه	الإنفاق ^أ	المقترح
الموظفون والاستشاريون	7,324,162	6,412,525	911,637	7,626,200	7,130,900	7,854,531
السفر	548,000	535,755	12,245	548,000	548,000	575,400
الأنشطة والاجتماعات الإقليمية	1,117,000	1,117,000	0	1,117,000	1,117,000	1,316,400 ^ب
الخدمات العالمية/اجتماعات	550,000	329,531	220,469	750,000 ^ج	725,000	855,000 ^د
الحيز والمعدات	590,000	541,362	48,638	590,000	570,000	590,000
المجموع الفرعي	10,129,162	8,936,173	1,192,989^{هـ}	10,631,200	10,090,900	11,191,331
تكلفة الدعم البرامجي	810,333	714,894	95,439	850,496	807,272	895,306
المجموع	10,939,495	9,651,067	1,288,428^و	11,481,696	10,898,172	12,086,637

^أ النفقات المقدرة حتى 31 ديسمبر/ كانون الأول 2024.

^ب يشمل النفقات على الاجتماعات الاستشارية والتشاورية - بند الميزانية 4210.

^ج يشمل بنود ميزانية الخدمات العالمية 3210-3216 فقط.

^د تمت إزالة بند الميزانية 4210 من الإجمالي ليتماشى مع الميزانية التفصيلية في الجزء الثالث من التقديم من الآن فصاعداً.

^{هـ} تضمن الاجتماع/الدعم الخاص ببند الميزانية 4210 ليتماشى مع الميزانية التفصيلية في الجزء الثالث من التقديم.

^و تمت إعادة الرصيد إلى الاجتماع الخامس والتسعين.

22. وستتم إعادة الأرصدة من برنامج المساعدة على الامتثال لعام 2023 في الاجتماع الخامس والتسعين بمبلغ 1,192,989 دولاراً أمريكياً بالإضافة إلى تكاليف دعم الوكالة البالغة 95,439 دولاراً أمريكياً. وتتعلق معظم الأرصدة التي يتم إرجاعها ببنود الموظفين للمناصب التي كانت شاغرة لجزء من العام أو طوال العام.

تعليقات الأمانة وتوصيتها**التعليقات**

23. استعرضت الأمانة تقديم ميزانية برنامج المساعدة على الامتثال والتغييرات في البرنامج والموظفين بما يتماشى مع المقرر 91/93 (د)⁹ مع الأخذ في الاعتبار الهيكل العام لبرنامج المساعدة على الامتثال وعملياته وهيكله الإقليمي والمقررات الأخرى ذات الصلة.

24. وأشارت الأمانة أنه ضمن الأنشطة التي تساهم في تحقيق جميع النتائج، تمت إضافة قسم فرعي جديد بشأن تقديم المساعدة التقنية والسياساتية إلى بلدان مختارة من البلدان ذات حجم الاستهلاك المنخفض لدعم تنفيذ خطة التنفيذ المتعلقة بالمواد الهيدروفلوروكربونية بموجب تعديل كيغالي، واستفسرت الأمانة عما إذا كان اليونيب سينظر في إدراج الدعم للبلدان ذات حجم الاستهلاك المنخفض كنتيجة أخرى في حد ذاته. ورد اليونيب بأن البلدان ذات حجم الاستهلاك

⁹ يطلب المقرر 91/93 (د) من اليونيب في التقديمات المستقبلية لميزانية برنامج المساعدة على الامتثال، أن يواصل (1) تقديم معلومات مفصلة عن الأنشطة التي ستستخدم فيها الأموال العالمية؛ (2) توسيع أولوية التمويل بين بنود ميزانية برنامج المساعدة على الامتثال لاستيعاب الأولويات المتغيرة، وتقديم تفاصيل، وفقاً للمقررين 24/47 و26/50، بشأن عمليات إعادة التخصيص التي أجريت؛ (3) تقديم تقارير عن مستويات الوظائف الحالية للموظفين وإبلاغ اللجنة التنفيذية بأي تغييرات تطرأ عليها، وخاصة فيما يتعلق بأي زيادة في مخصصات الميزانية.

المنخفض مدرجة في جميع أنشطة برنامج المساعدة على الامتثال وهي في الواقع مجال تركيز ذو أولوية. وأكد اليونيب أن استراتيجية برنامج المساعدة على الامتثال للفترة 2024-2026 تتضمن قسمًا كاملاً عن البلدان ذات حجم الاستهلاك المنخفض، وأنه بينما يعمل اليونيب مع جميع البلدان العاملة بموجب المادة 5 بما في ذلك البلدان ذات حجم الاستهلاك المنخفض والبلدان ذات مستوى الاستهلاك المتوسط إلى المرتفع، فإنه سيولي اهتمامًا ذا أولوية للبلدان ذات حجم الاستهلاك المنخفض التي تشمل أيضًا البلدان ذات حجم الاستهلاك المنخفض للغاية.

25. كما سعت الأمانة إلى الحصول على مزيد من المعلومات عن الفوائد الملموسة لمشروع التوأمة. وأشار اليونيب إلى أن مستوى المشاركة من جانب البلدان الفردية العاملة بموجب المادة 5 كان مرتفعاً بشكل ملحوظ في حلقات العمل نفسها، وشاركت جميع البلدان بنشاط من خلال مشاركة التحديات والنجاحات التي واجهتها في دمج كفاءة استخدام الطاقة مع حماية الأوزون والعمل المناخي. وشملت الفوائد إنشاء شبكات قيمة داخل البلدان العاملة بموجب المادة 5، وتشجيع العمل الجماعي والدعم؛ وإشراك المشاركين في مناقشة الأطر السياسية الاستراتيجية التي تعد ضرورية لإنشاء أنظمة ومبادرات فعالة يمكنها قيادة نتائج ملموسة في المشروعات المنفذة وطنياً في المستقبل؛ والاعتراف بأهمية العمل المستمر مع مختلف أصحاب المصلحة، بما في ذلك القطاع الخاص، من أجل التزام أكبر من جانب ممثلي الأعمال والصناعة باعتماد تكنولوجيات ذات كفاءة في استخدام الطاقة وذات إمكانية منخفضة للاحتراق العالمي؛ وتحديد تقييم ديناميات السوق (أي رصد مبيعات المنتجات وأدائها) والتحقق من كفاءة المنتج من خلال الاختبار كمجالات رئيسية للتركيز في المستقبل؛ والاعتراف بأهمية التعاون مع موظفي الطاقة لوضع حلول شاملة للمجالات الحرجة؛ وتبادل الأفكار القيمة فيما يتعلق باستراتيجيات وخبرات البلدان الأخرى في تنفيذ المعايير الدنيا لأداء الطاقة ووضع علامات لكفاءة استخدام الطاقة.

26. وبالإضافة إلى التعليقات المحددة التي قدمتها الأمانة، وافق اليونيب على تضمين النتيجة 1 إجراءات ملموسة مثل الترتيبات المؤسسية ومذكرات التفاهم مع وزارات الطاقة و/أو لجان التوجيه المشتركة وأفرقة العمل لمساعدة وحدات الأوزون الوطنية على استكشاف أوجه التآزر المتعلقة بأهداف تعديل كيغالي مع السياسات الوطنية لكفاءة استخدام الطاقة والآليات المالية؛ وتضمين النتيجة 2 التدريب على الاستخدامات المختلفة للمواد الهيدروفلوروكربونية وخلائط المواد الهيدروفلوروكربونية، وتشجيع إضفاء الطابع المؤسسي على هذه العمليات في النشاط المتعلق بتنوعية جميع وحدات الأوزون الوطنية بأفضل الممارسات والمنهجيات لجمع البيانات والتحقق الشامل ومتطلبات الإبلاغ عن جميع المواد الخاضعة للرقابة؛ وتضمين النتيجة 6 إشارة إلى المعلومات المحدثة عن الإدارة السليمة لغازات التبريد، وغازات التبريد البديلة ذات الإمكانية المنخفضة للاحتراق العالمي، والمبادئ التوجيهية والمعايير لاستخدامها الآمن والمسؤول، بحيث تغطي على نطاق واسع غازات التبريد القابلة للاشتعال والسامة في توفيرها لجميع وحدات الأوزون الوطنية مع المعلومات الأساسية لاتخاذ خيارات مستنيرة تتعلق بقطاع خدمة التبريد.

27. وبالإضافة إلى تعليق الأمانة بأن إدراج الدعم المؤقت من جانب الخبراء في مجال كفاءة استخدام الطاقة ضمن بنود ميزانية الموظفين قد يعطي الانطباع بأن اليونيب يطلب فتح منصب دائم لموظف أو منصب مؤقت، فقد قام اليونيب بتنقيح تقديم الميزانية لنقل خبراء كفاءة استخدام الطاقة من بنود الموظفين إلى بنود ميزانية الخدمات العالمية وتنمية القدرات.

28. وطلبت الأمانة توضيحاً بشأن الاختلافات بين أدوار خبراء كفاءة استخدام الطاقة المطلوبين وإعادة التوجيه والتمويل المعتمدين لعام 2024 للمنصب الشاغر الحالي لموظف برنامج بروتوكول مونتريال ف3 في الفريق العالمي لبرنامج المساعدة على الامتثال في باريس لدعم مسائل تعديل كيغالي، بما في ذلك كفاءة استخدام الطاقة واستعراض المشروعات ذات الصلة ومساعدة أفرقة برنامج المساعدة على الامتثال الإقليمية في تلك المناطق. وأوضح اليونيب أن وظائف منصب ف3، الذي يجري التعيين فيه حالياً، تشمل دعم إعداد مشروع خطة التنفيذ المتعلقة بالمواد الهيدروفلوروكربونية بموجب تعديل كيغالي وتنفيذه في جميع المناطق، وإجراء تحليل للبيانات في مشروعات خطة التنفيذ المتعلقة بالمواد الهيدروفلوروكربونية بموجب تعديل كيغالي قبل تقديمها إلى الأمانة، وتعزيز فهم أهداف تعديل كيغالي لأصحاب المصلحة القطاعيين، ودعم تحديد الفرص للأنشطة الإضافية المتعلقة بكفاءة استخدام الطاقة بالتوازي مع مكونات خطة التنفيذ المتعلقة بالمواد الهيدروفلوروكربونية بموجب تعديل كيغالي. إن طلب عام 2025 هو للحصول على دعم الخبراء التقنيين للاستجابة لاحتياجات البلدان العاملة بموجب المادة 5 في مجال كفاءة استخدام الطاقة، حيث يعتقد اليونيب بقوة أن هناك إمكانات عالية للتدخلات غير الاستثمارية المتعلقة بكفاءة استخدام الطاقة في البلدان العاملة بموجب المادة 5 أثناء إزالة المواد الهيدروفلوروكربونية، والتي تظل في كثير من الحالات غير مستغلة إلى حد كبير بسبب الفجوة الكبيرة بين الفرص المتاحة لكفاءة استخدام الطاقة في إطار الصندوق المتعدد الأطراف ومستوى التدخلات في كفاءة استخدام الطاقة في معظم البلدان، وخاصة في البلدان ذات حجم الاستهلاك المنخفض.

29. وعند استعراض ميزانية برنامج المساعدة على الامتثال المقترحة لعام 2025 مقابل الميزانية الموافق عليها لعام 2024، لاحظت الأمانة إضافة بند الميزانية 3213 بمبلغ 150,000 دولار أمريكي، والزيادات الموضحة في الجدول 2 كما هو موضح في الفقرات من 14 إلى 20. وترجع التغييرات المطلوبة في مناصب الموظفين إلى زيادة مسؤوليات الوظائف وهي متوافقة مع مستويات المهام المماثلة في شعب أخرى في اليونيب. إن إجمالي ميزانية برنامج المساعدة على الامتثال المطلوبة قبل تطبيق المخصص الإضافي البالغ 150,000 دولار أمريكي في المقرر 95/93 (أي 11,041,331 دولاراً أمريكياً، بالإضافة إلى تكاليف دعم الوكالة) أعلى بنسبة 5.85 في المائة من الميزانية الموافق عليها في عام 2024 (أي 10,431,200 دولار أمريكي، بالإضافة إلى تكاليف دعم الوكالة، باستثناء المخصص الإضافي البالغ 200,000 دولار أمريكي في المقرر 95/93). ويسعى اليونيب إلى الحصول على موافقة استثنائية من اللجنة التنفيذية لتجاوز عتبة نسبة 3 في المائة المسموح بها بموجب المقرر 24/47 (أ) (3)، والذي يحد من الزيادة في ميزانية برنامج المساعدة على الامتثال لتلك النسبة ما لم يتم تزويد اللجنة التنفيذية بدليل على أن ضغوط التضخم تبرر خلاف ذلك، وهو ما فعله اليونيب في التقديم.

الجدول 2 مقارنة بين ميزانية برنامج المساعدة على الامتثال الموافق عليها لعام 2024 والميزانية المقترحة لعام 2025 (بالدولار الأمريكي)

بند الميزانية	الموافق عليه لعام 2024	المقترح لعام 2025	الفرق	التغيير (في المائة)
1100 (موظفون)	7,626,200	7,854,531	228,331	2.99
1600 (السفر)	548,000	575,400	27,400	5.00
2030 (الأنشطة الإقليمية)	1,097,000	1,316,400	219,400	20.00
3200 (الخدمات العالمية)	750,000	850,000	100,000	13.33
4210 (الاجتماعات الاستشارية والتشاورية)	20,000	5,000	-15,000	-75.00
5200 (العمليات المكتبية/الاتصالات)	590,000	590,000	0	0.00

بند الميزانية	الموافق عليه لعام 2024	المقترح لعام 2025	الفرق	التغيير (في المائة)
المجموع الفرعي	10,431,200	11,041,331		
3213	200,000	150,000		
المجموع	10,631,200	11,191,331	560,131	5.27

التوصية

30. في ضوء المعلومات المقدمة من اليونيب والتعليقات الواردة أعلاه، قد ترغب اللجنة التنفيذية فيما يلي:

(أ) الإشارة إلى التقرير المرحلي لعام 2024 وخطة العمل والميزانية لعام 2025 لبرنامج المساعدة على الامتثال التابع لليونيب، الواردة في الوثيقة UNEP/OzL.Pro/ExCom/95/83؛

(ب) الموافقة، على أساس استثنائي، على أنشطة برنامج المساعدة على الامتثال وميزانيته لعام 2025 بمبلغ 11,191,331 دولارا أمريكيا، بالإضافة إلى تكاليف دعم الوكالة بنسبة 8 في المائة والتي تبلغ 895,306 دولارات أمريكية، مع ملاحظة التعديلات المقترحة فيها؛

(ج) الطلب من اليونيب، في التقديمات المقبلة لميزانية برنامج المساعدة على الامتثال، أن يواصل القيام بما يلي:

(1) تقديم معلومات مفصلة عن الأنشطة التي سيتم استخدام الأموال العالمية فيها؛

(2) توسيع نطاق تحديد أولويات التمويل بين بنود ميزانية برنامج المساعدة على الامتثال لاستيعاب الأولويات المتغيرة، وتقديم تفاصيل، عملا بالمقررين 24/47 و 26/50، بشأن عمليات إعادة التخصيص التي أجريت؛

(3) الإبلاغ عن مستويات المناصب الحالية للموظفين وإبلاغ اللجنة التنفيذية بأي تغييرات تطرأ عليها، ولا سيما فيما يتعلق بأي زيادة في مخصصات الميزانية؛

(4) تقديم ميزانية للسنة المعنية، وتقرير عن التكاليف المتكبدة في السنة السابقة لآخر سنة، مع الإشارة إلى الفقرتين الفرعيتين (ج) (2) و (ج) (3) أعلاه؛

(د) الطلب كذلك من اليونيب أن يقدم تقريرا نهائيا يفصل الدروس المستفادة من تنفيذ المرحلة الأولى من مشروع المساعدة التقنية العالمية لتوأمة موظفي الأوزون الوطنيين وصناع السياسات الوطنية لكفاءة استخدام الطاقة لدعم أهداف تعديل كيغالي عند تقديم المرحلة الثانية من المشروع في الاجتماع الأول في عام 2026.



OZONACTION COMPLIANCE ASSISTANCE PROGRAMME

2025 WORKPLAN, PROGRESS REPORT AND BUDGET

Submitted by

United Nations Environment Programme
to the 95th Executive Committee Meeting

11 November 2024

Table of Contents

Introduction.....	1
Part I: 2025 CAP Workplan	1
Overview of the 2024-2026 CAP Strategy	1
Theory of Change diagram	5
2025 Workplan.....	6
Part II: 2024 CAP Progress Report.....	14
Introduction.....	14
Highlights.....	14
Progress report on energy efficiency Twinning project (Phase-I: 2023-2024)	20
Report on technical and policy support for LVC countries to support KIP implementation	29
2024 Progress report details.....	31
Part III: 2025 CAP Budget.....	67
Overview of proposed 2025 budget.....	67
Budget.....	72
Organigram	75
Annexes related to 2025 Workplan.....	76
Annex 1 – Logical framework analysis for 2025.....	47
Annex 2 – Implementation of UNEP-assisted Article 5 country projects in 2025.....	58
Annex 3 – Country-specific CAP services proposed for 2025	67
Annex 4 – OzonAction partnerships for 2025.....	79
Annexes related to 2024 Progress Report.....	92
Annex 5 – Progress report on global CAP activities	92
Annex 6 – Report on the use of CAP staff time.....	101
Annex 7 – Meetings and workshops organized by CAP.....	103

INTRODUCTION

1. In its capacity as an Implementing Agency of the Multilateral Fund for the Implementation of the Montreal Protocol on Substances that Deplete the Ozone Layer, UN Environment Programme (UNEP) is submitting this document for the consideration of the Executive Committee at its 95th meeting. The document comprises:

- Part I: 2025 CAP Workplan.
- Part II: 2024 CAP Progress Report.
- Part III: 2025 CAP Budget.

PART I: 2025 CAP WORKPLAN

Overview of the 2024-2026 CAP Strategy

2. The proposed 2025 Compliance Assistance Programme (CAP) Workplan and Budget has been developed in the context of UNEP's 2024-2026 CAP Strategy, which was noted by the Executive Committee at its 93rd meeting through Decision 93/91(a).¹ The strategy sets the overall vision and direction for UNEP in its capacity as an Implementing Agency of the Multilateral Fund during this three-year period. UNEP developed the strategy based on the current and anticipated needs of countries operating under Article 5 of the Montreal Protocol that have been identified from various sources and through consultations and interactions with concerned stakeholders. The strategy follows UNEP's Results Based Management approach.

3. UNEP's work under the Multilateral Fund revolves around certain major thematic areas that are critical for Article 5 countries with respect to their Montreal Protocol obligations and which relate to UNEP's specific mandate. When UNEP became an Implementing Agency on 19 June 1991, the Executive Committee entrusted UNEP with:

- Political promotion of the objectives of the Protocol.
- Research and data gathering, according to the provisions of the Protocol.
- Assistance in Clearinghouse functions as per Article 10 (3)(b) of the Montreal Protocol.²

As a result of this mandate, UNEP is the only Implementing Agency that focuses on "non-investment" services and projects under the Multilateral Fund.

¹ The full strategy is presented in document UNEP/OzL.Pro/ExCom/93/94.

² The clearinghouse function comprises: (i) Assist Parties operating under paragraph 1 of Article 5, through country specific studies and other technical co-operation, to identify their needs for cooperation; (ii) Facilitate technical co-operation to meet these identified needs; (iii) Disseminate information and relevant materials, hold workshops and training sessions and other related activities for the benefit of Parties that are developing countries; and (iv) Facilitate and monitor other multilateral, regional and bilateral cooperation available to Parties that are developing countries.

4. UNEP fulfills this mandate through the Law Division's OzonAction Branch. The discharge of this mandate contributes directly or indirectly to UNEP's 2022-2025 Medium Term Strategy (MTS), which focusses on three interconnected planetary crises – climate change, biodiversity loss and pollution.³ The MTS employs seven interlinked sub-programmes for action: Climate Action, Chemicals and Pollutions Action, Nature Action, Science Policy, Environmental Governance, Finance and Economic Transformations and Digital Transformations. Most of UNEP's work under the Multilateral Fund falls under the Environmental Governance sub-programme, although some of it contributes to Climate Action as well.

5. UNEP's mission is to enable developing countries to meet and sustain their compliance obligations under the Montreal Protocol, which include several critical compliance milestones during the 2024-2026 period covered by the strategy.

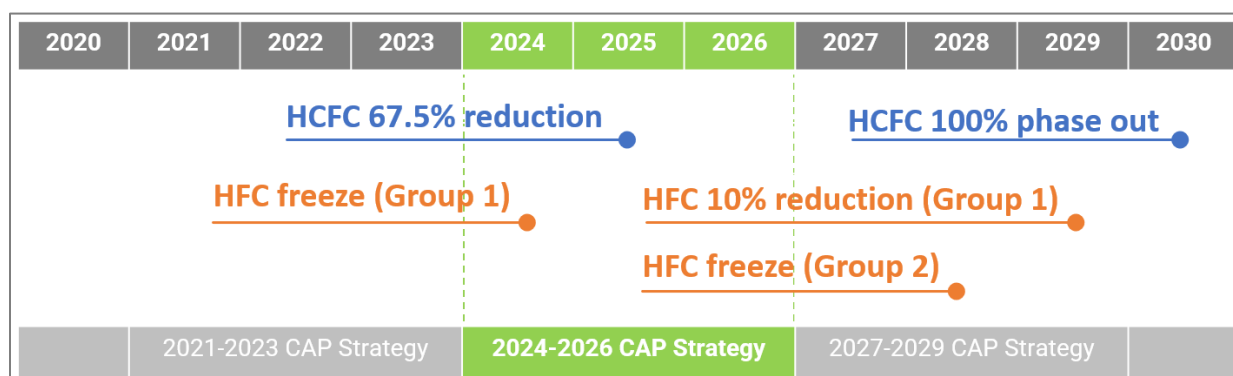


Figure 1. Milestones for Article 5 countries during the period covered by the 2024-2026 CAP Strategy

6. UNEP's work revolves around two main compliance pillars: the phase out of hydrochlorofluorocarbons (HCFCs) and the phase down of hydrofluorocarbons (HFCs). Within these two compliance pillars, the strategy identifies the following 10 thematic areas for Article 5 countries which require UNEP intervention during the 2024-2026 period:

³ <https://www.unep.org/resources/policy-and-strategy/people-and-planet-unep-strategy-2022-2025>.

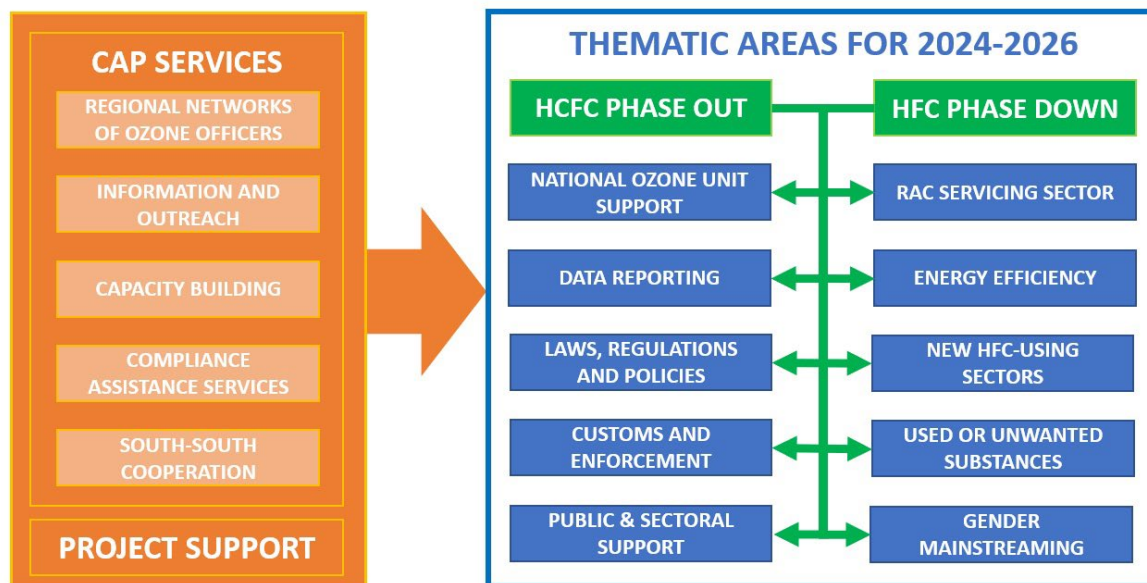


Figure 2. Thematic focus areas for CAP during 2024-2026

7. Based on this strategic context, the CAP strategy presented the vision of what UNEP in its capacity as an Implementing Agency seeks to achieve through its work during and beyond these three years. Using a Theory of Change approach (see diagram at end of section), the strategy explains how the workplan relates to those larger goals. These are classified into Activities, Outputs, Outcomes, Intermediate states, and Impacts. Each of these stages have different timeframes to be realized and different reporting mechanisms, and UNEP has different degrees of influence over their achievement.

8. The strategy further identified the following aspects of UNEP's programme, amongst others, that make it particularly well-suited to achieve its objectives under the Multilateral Fund:

Compliance focus	Ability to work outside of projects
National Ozone Unit focus	Skills and knowledge of the CAP team
Regional delivery	Partnerships
Clearinghouse mandate	Regional Networks
Inter-connectedness	UNEP as an organisation
Diversity of countries served	

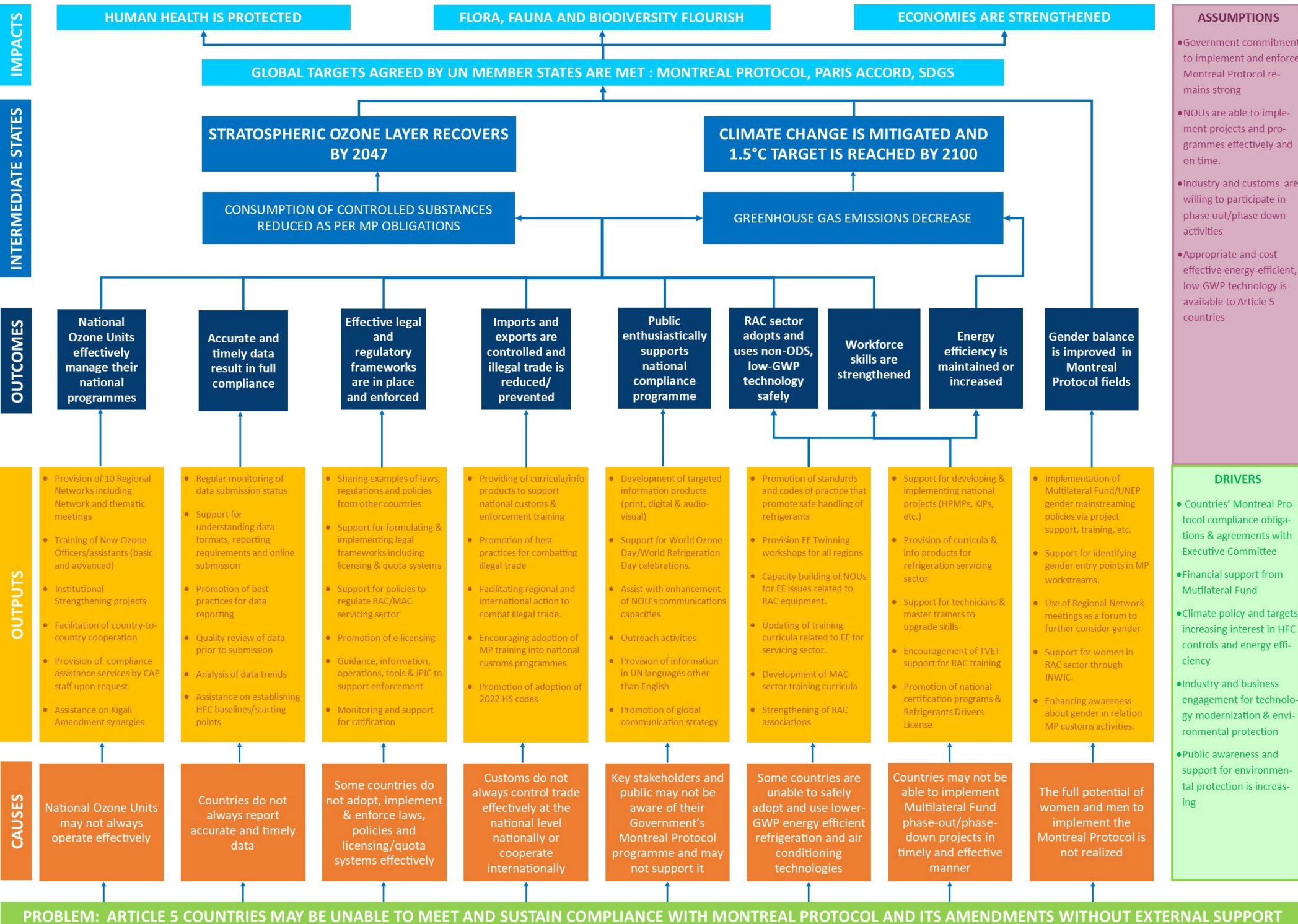
9. In the context described above, the strategy identified the following major desired outcomes that UNEP is supporting during the three-year period:

OUTCOME 1	NATIONAL OZONE UNITS EFFECTIVELY MANAGE THEIR NATIONAL PROGRAMMES
OUTCOME 2	ARTICLE 5 COUNTRIES REPORT ACCURATE AND TIMELY DATA
OUTCOME 3	EFFECTIVE LEGAL, REGULATORY AND POLICY FRAMEWORKS ARE IN PLACE AND ENFORCED
OUTCOME 4	IMPORTS AND EXPORTS ARE CONTROLLED, AND ILLEGAL TRADE IS REDUCED/PREVENTED

OUTCOME 5	KEY STAKEHOLDERS AND THE PUBLIC ENTHUSIASTICALLY SUPPORT NATIONAL COMPLIANCE PROGRAMMES
OUTCOME 6	NON-ODS, LOW GWP TECHNOLOGY IS ADOPTED AND USED SAFELY, AND SERVICING SECTOR WORKFORCE SKILLS ARE STRENGTHENED
OUTCOME 7	ENERGY EFFICIENCY IS MAINTAINED OR INCREASED IN THE RAC SECTOR
OUTCOME 8	GENDER ISSUES AND APPROACHES ARE CONSIDERED AND ADDRESSED IN MONTREAL PROTOCOL PROGRAMMES AND PROJECTS
CONTRIBUTING TO ACHIEVING ALL OUTCOMES	ARTICLE 5 COUNTRIES MEET THEIR COMMITMENTS THROUGH EFFECTIVE AND TIMELY IMPLEMENTATION OF MULTILATERAL FUND PROJECTS

10. While the above framework is the main guide for UNEP's work during this period, it is flexible and responsive to emerging needs of Article 5 countries and will adjust to new developments under the Montreal Protocol. Accordingly, CAP will support Article 5 countries in new areas as they arise, including for example life cycle refrigerant, energy efficiency and end of life refrigerant management, while still pursuing the major desired outcomes above.

Theory of Change diagram



2025 Workplan

10. This workplan proposes outputs that support the achievement of these outcomes. Through the implementation of this workplan, UNEP will continue using its comparative advantages to effectively assist Article 5 countries to meet and sustain compliance with their commitments under the Montreal Protocol and its Amendments. Note: The specific indicators for each of the following activities are presented in Annex 1 – Logical Framework Analysis for 2025.

OUTCOME 1
National Ozone Units effectively manage their national programmes

11. UNEP will deliver the following activities in 2025 to help achieve this outcome:

- Provide all Article 5 countries with IS projects approved for UNEP implementation with technical assistance to expedite the preparation, implementation, monitoring and reporting of IS phases as per Annex 2.
- Provide support to any NOU requesting region- and country-specific compliance assistance needed to address specific technical, policy, or operational issues as per Annex 3, or as per ad hoc requests.
- Organise Regional Network meetings for Ozone Officers in all ten regions, including physical and/or online regional, sub-regional, inter-regional, and/or thematic meetings, so that all Ozone Officers and/or their assistants and key stakeholders can learn from peer-to-peer interaction and strengthen cooperation at the regional and international levels.
- Offer introductory training to all new Ozone Officers and/or their assistants to acquire the basic skills, competencies and understanding of the Montreal Protocol and Multilateral Fund.
- Offer advanced training to interested Ozone Officers to acquire advanced skills to further enhance her/his management of their NOUs.
- Develop and pilot a short training on Montreal Protocol negotiation skills for Ozone Officers for effective participation in Montreal Protocol and Multilateral Fund meetings.
- Support NOUs requesting or needing specific support through country-to-country (south-south/north-south) cooperation facilitated by CAP, e.g., NOU-NOU meetings, study tours, technology roundtables.
- Assist NOUs to explore synergies related to Kigali Amendment objectives with national energy efficiency policies and financial mechanisms.
- Assist interested NOUs to understand methodology for establishing inventories of banks of used or unwanted controlled substances and identification of potential strategy and business model for country to handle used or unwanted controlled substances in accordance with the relevant decision of the Executive Committee.

OUTCOME 2

Article 5 countries report accurate and timely data
--

12. UNEP will deliver the following activities in 2025 to help achieve this outcome:

- Regularly monitor the status of Article 7 and Country Programme data reporting to identify and avoid late submissions or risks of non-compliance and follow-up as needed.
- Assist any NOUs requesting support with reviewing and/or reporting accurate Article 7 and/or Country Programme data.
- Regularly follow up with all NOUs about data reporting deadlines and online reporting systems and/or forms.
- Make all NOUs aware of best practices and methodologies for data collection, cross-checking and reporting requirements for all controlled substances and encourage the institutionalization of those processes.
- Develop a tool to assist NOUs in tracking and monitoring the utilization of HFC quota in CO₂ tonnes equivalent to ensure compliance with obligations under the Kigali Amendment.
- Encourage all NOUs to identify and analyse differences between their country's reported trade data and those reported by other countries with whom they trade and to resolve any inconsistencies with their counterparts, including assisting the NOUs with understanding the annual aggregated export data provided by the Ozone Secretariat.
- Offer interested NOUs from Group 2 countries information or assistance to establish their HFC baselines and the starting points for sustained aggregate reductions in HFC consumption.

OUTCOME 3

Effective legal, regulatory and policy frameworks are in place and enforced
--

13. UNEP will deliver the following activities in 2025 to help achieve this outcome:

- Inform all NOUs about options, including best practices and preventative approaches involving awareness and education, to enhance their national Montreal Protocol monitoring, reporting, verification and enforcement (MRVE) systems.
- Strengthen the capacity of all NOUs to operate and enforce their licensing and quota systems as per Montreal Protocol and Multilateral Fund targets.
- Assist all NOUs of Article 5 Parties to the Kigali Amendment which have not yet established their HFC licensing and quota systems to do so.
- Assist all NOUs in Article 5 countries that have not yet ratified the Kigali Amendment to do so, in collaboration with the Ozone Secretariat.
- Encourage all NOUs in countries that have not yet ratified the Kigali Amendment to consider introducing voluntary HFC licensing and quota systems.
- Encourage NOUs to consider adopting electronic licensing systems where appropriate.
- Support all NOUs participating in the informal Prior Informed Consent (iPIC) mechanism to use that system to support enforcement of their licensing and quota systems and encourage more countries to join.

- Inform all NOUs about existing HCFC and HFC legislation in Article 5 and non-Article 5 countries (including the MAC sector) and offer assistance for developing/enhancing their own.
- Assist all NOUs in Article 5 parties to adopt legislative and policy measures related to issues highlighted by TEAP (e.g., fire suppression, refrigerant life cycle management).

OUTCOME 4
Imports and exports are controlled, and illegal trade is reduced/prevented

14. UNEP will deliver the following activities in 2025 to help achieve this outcome:

- Assist all NOUs requesting support to update, monitor or enforce their national regulations and policies to facilitate and monitor legal trade in controlled substances and to combat illegal trade through an integrated approach.
- Provide all NOUs with tools developed by UNEP and its partners for use in the delivery of their national Customs training, and, as appropriate, training of environmental inspectors and other law enforcement officers.
- Increase the awareness and understanding of all NOUs about critical Montreal Protocol Customs issues, including best practices, risk profiling, innovative approaches and ways to combat illegal trade in controlled substances.
- Make all NOUs aware of methods that support enforcement of national licensing systems, both at and beyond the Customs check point in domestic markets, including market surveillance and facility inspections.
- Encourage all NOUs to institutionalize cooperation with Customs Authorities, possibly through signing MoUs, and interact more closely with Customs agencies to promote regional and international action to combat illegal trade.
- Encourage and assist interested national Customs training academies to adopt the UNEP-WCO Customs Training Manual into their national curricula.
- Encourage interested regional and sub-regional organizations to develop regional and/or sub-regional initiatives or policies to facilitate and monitor legal HCFC and HFC trade and to combat illegal trade.
- Assist all NOUs to work with Customs to promote the adoption and/or implementation of the 2022 Harmonized System codes or otherwise adopt regional codes, national subcodes or other measures to facilitate the monitoring of individual HFC substances imports and exports.
- Collaborate with interested regional and/or sub-regional organization and national customs authority in identification of existing national tariff system to accommodate individual Harmonized System (HS) code for HFCs under 2027 HS code system.
- Encourage interested NOUs to encourage their customs participation in WCO's Operation Demeter and other targeted enforcement actions.
- Encourage all NOUs to work with Customs brokers on the proper classification of refrigerants and their products, to improve data collection, verification reporting and boarder control.
- Promote the concept of Green Customs and include related sessions in selected enforcement meetings.

OUTCOME 5

Key stakeholders and the public enthusiastically support national compliance programmes

15. UNEP will deliver the following activities in 2025 to help achieve this outcome:

- Prepare and disseminate targeted information, communications and educational materials and services to ensure that NOUs, key stakeholders and the public are well informed about priority topics related to the Montreal Protocol through digital and print media.
- Promote public support for the Montreal Protocol at the regional level through awareness activities agreed by the Regional Network members.
- Outreach Montreal Protocol issues, including gender mainstreaming and SDG linkages, at key international, regional, and national forums including those related to Montreal Protocol and climate.
- Maintain and enhance the OzonAction website (www.unep.org/ozonaction) and OzonAction Meeting Portal (www.ozonactionmeetings.org).
- Update the online OzonAction Knowledge Maps to provide NOUs and other stakeholders with access to key and recent data to support Montreal Protocol implementation.
- Produce and disseminate the OzoNews e-newsletter on a bi-weekly basis, develop a subscription management system and enhanced functionality, including regular annual review cycle of subscription system.
- Produce and disseminate the OzonAction Scoop on topical subjects three times per year.
- Encourage and support national celebrations of World Ozone Day (WOD) on 16 September, including the development of specific materials.
- Encourage and support celebrations of World Refrigeration Day (WRD) on 26 June, in cooperation with the WRD Secretariat and refrigeration and air conditioning partners to promote Montreal Protocol objectives to policymakers and the public.
- Encourage NOUs and their customs authorities to participate in World Customs Day (WCD) on January 26 to showcase their joint work under the Montreal Protocol to monitor and control trade of controlled substances and combat illegal trade.
- Translate prioritised publications and tools into UN languages, depending on regional priorities and available resources.
- Implement a Global Communication Strategy to support compliance with the Montreal Protocol and Kigali Amendment, including gender mainstreaming considerations.

OUTCOME 6

Non-ODS, low-GWP technology is adopted and used safely, and servicing sector workforce skills are strengthened

16. UNEP will deliver the following activities in 2025 to help achieve this outcome:

- Provide all NOUs with key information to make informed choices related to the refrigeration servicing sector, including up-to-date information on sound refrigerant management, alternative low- GWP refrigerants, guidelines and standards for their safe and responsible use, information on technologies including not-in-kind, and the installation and assembly sector.
- Provide all NOUs with the refrigeration servicing sector training products and tools developed by UNEP and its partners.
- Assist all servicing technicians, master trainers, and other practitioners involved in UNEP-assisted capacity-building activities to acquire new or updated skills and competencies for minimizing leakages, the sound and safe handling of refrigerants, and maintaining/enhancing energy efficiency of RAC appliances.
- Assist interested national refrigeration training institutes and NOUs to establish agreements to cooperate on refrigeration servicing sector training and adopt UNEP-AREA training manual.
- Assist interested universities to integrate UNEP-ASHRAE University Course-Refrigerant Management for Future Engineers into their engineering curriculum.
- Encourage and assist all NOUs to increase their cooperation with their Technical Vocational Education and Training (TVET) authorities with respect to RAC servicing sector training and certification programs.
- Provide all NOUs with information and technical and policy assistance for developing national RAC certification programs.
- Provide interested NOUs with guidance for the establishment and/or improvement of national certification systems using materials and lessons learned from the development of the Refrigerant Driving License (RDL) global qualification program.
- Encourage interested NOUs to strengthen their national/regional RAC associations, encourage them to interact regularly with their associations, and exchange best practices so that the associations have increased engagement in their countries' national Montreal Protocol activities.
- Encourage interested NOUs to provide increased attention to the food cold chain sector and to strengthen their cooperation with stakeholders in that sector.
- Support all NOUs to have an increased understanding of the technical and regulatory issues related to HFCs and alternatives used in mobile air conditioning (MAC).
- Promote Ozone2Climate roundtables and road shows in interested regions and countries.

OUTCOME 7
Energy efficiency is maintained or increased in the RAC sector

17. UNEP will deliver the following activities in 2025 to help achieve this outcome:

- Encourage interested NOUs to interact with their national energy efficiency policy makers and identify areas of cooperation to promote energy efficiency during the HFC phase-down.
- Follow up on the recommendations from the 2023-2024 Ozone Officers-Energy Efficiency Policymakers Twinning workshops (Phase I).

- Develop new and/or share existing capacity building materials related to energy efficiency and low GWP refrigerants based on the needs assessments and the outcomes of the twinning workshops.
- Assist all NOUs to better understand energy efficiency issues related to RAC equipment through sharing existing information materials and/or developing new materials.
- Provide all NOUs with updated technician training curricula on how to maintain energy efficiency of existing RAC equipment through best installation and servicing practices.
- Provide all interested NOUs with information and assistance to enhance or establish policies or regulations aimed at maintaining and enhancing energy efficiency of existing and new RAC equipment.

OUTCOME 8

Gender issues and approaches are considered and addressed in Montreal Protocol programmes and projects

18. UNEP will deliver the following activities in 2025 to help achieve this outcome:

- Ensure that all UNEP-implemented Multilateral Fund projects include gender mainstreaming components.
- Assist NOUs to complete gender assessment as required by the Multilateral Fund's Gender Policy by providing gender assessment resources and tools.
- Assist NOUs to identify the entry point to integrate gender mainstreaming into implementation workstreams of the Montreal Protocol.
- Provide all NOUs with Regional Network meetings to use as a forum to further consider gender mainstreaming in the context of their national Montreal Protocol programmes, projects and activities.
- Offer interested women working in the RAC sector in Article 5 countries networking and mentorship opportunities through the International Network of Women in Cooling (INWIC), and assist interested countries to incorporate those activities into HPMP and KIP projects.
- Encourage and assist all NOUs to promote the participation and empowerment of women in the RAC sector through awareness raising, information and training provided by CAP.
- Assist Article 5 countries to reflect gender considerations in their Customs work related to the Montreal Protocol.

CONTRIBUTING TO ACHIEVING ALL OUTCOMES

Article 5 countries meet their commitments through effective and timely implementation of Multilateral Fund projects

19. UNEP will deliver the following activities in 2025 to help achieve this outcome:

HCFC phase out

- Support all Article 5 countries requesting UNEP assistance to prepare and submit new HPMP stages or tranches.

- Assist all Article 5 countries with HPMP tranches approved for UNEP implementation to implement them in a timely and effective manner.
- Assist all Article 5 countries with HPMP verification projects approved for UNEP implementation to have their HCFC consumption verified in a timely and effective manner and help them implement the recommendations in the verification reports.

HFC phase down

- Support all Article 5 countries requesting UNEP assistance to prepare and submit KIPs.
- Assist all Article 5 countries with KIP tranches approved for UNEP implementation to implement them in a timely and effective manner.

Unwanted controlled substances

- Support all Article 5 countries requesting UNEP assistance to prepare and submit projects under the funding window for an inventory of banks of used or unwanted controlled substances and a plan for the collection, transport, and disposal of such substances under Executive Committee Decision 91/66.
- Assist all Article 5 countries with ODS disposal project approved for UNEP implementation to implement them in a timely and effective manner.

Energy efficiency projects

- Support all LVCs requesting UNEP assistance to prepare and submit additional activities in their HPMPs under the special funding window to maintain energy efficiency in the refrigeration servicing sector under Executive Committee decision 89/6(b).
- Support all Article 5 countries requesting UNEP assistance to prepare and submit Pilot projects to maintain and/or enhance energy efficiency of replacement technologies and equipment in the context of HFC phase-down under Executive Committee Decision 91/65.
- Support all Article 5 countries requesting UNEP assistance to prepare and submit energy efficiency related projects in the context of HFC phase-down under Executive Committee Decision 94/60 and any future decisions as adopted by the 95th and 96th Executive Committee meetings.
- Assist all Article 5 countries with energy efficiency projects approved for UNEP implementation to implement them in a timely and effective manner.

Additional support to LVCs in 2025

20. As noted in the 2024-2026 CAP Strategy, UNEP prioritizes CAP assistance for low volume consuming countries (LVCs), which have specific needs and conditions, and which require tailored and continuing support. Through Decision 93/95 (d)(ii), the Executive Committee approved an increase in the CAP budget for the years 2024, 2025 and 2026 for providing technical and policy assistance to LVC countries to support KIP implementation.

21. In 2025, UNEP will use this special assistance to support LVCs that have approved KIPs that are in the implementation stage, as well as those that would be submitted to the Executive Committee for consideration at the 95th and 96th meetings (for 2024 activities, see Section II, *CAP Progress Report: Report on technical and policy support for LVC countries to support KIP implementation*). The Global CAP team

will identify the countries and regions where those conditions are met and consult with the Regional CAP teams, who will then identify specific areas of support needed by those countries, based on feedback received from Ozone Officers and during Network and other meetings. The Global CAP team will then identify the common needs across regions, consolidate them, and assign teams in the regions and Paris to coordinate the work. This may include identifying new focus areas for assistance or extending the activities that were developed in 2024 to more countries as and when the Executive Committee approves their KIPs for UNEP implementation. UNEP will make appropriate contractual arrangements to undertake the activities and provide guidance, information and/or materials to support LVCs. UNEP will allocate this special funding to the Regional CAP teams to implement the agreed activities.

PART II: 2024 CAP PROGRESS REPORT

Introduction

1. This report provides details of the progress made by UNEP in the implementation of the CAP and results achieved for the period September 2023 - August 2024, i.e., since the submission of the previous CAP Progress Report. Progress is presented according to the nine Outcomes and 75 Activities and indicators listed in the Logical Framework Analysis of the 2024 CAP Strategy.⁴

2. Highlights of UNEP's achievements are provided in the summary below. More details can be found in the section that follows, as well as in Annexes 5 – *Progress report on global CAP activities*; 6 – *Report on the use of CAP staff time*; and 7 – *Meetings and workshops organised by CAP*.

Highlights

3. During the period September 2023 - August 2024, UNEP made significant progress in assisting Article 5 countries in meeting and sustaining compliance with their Montreal Protocol obligations through the delivery of the planned CAP activities and services. Notable achievements include:

OUTCOME 1: National Ozone Units effectively manage their national programmes

- Supported the operation of the Regional Networks of Ozone Officers by organising a total of 20 network and thematic regional meetings⁵: Additional meetings were organised or co-organised by CAP for NOU and/or other stakeholders to address specific topics (49 meetings in total). Virtual meetings and webinars are still organized, but to a lesser extent. Going forward, UNEP will continue to use a combination of both in-person network meetings and virtual thematic meetings that are targeting a specific issue or a topic. *As a result, the capacity of NOUs to deal with specific and emerging issues was increased, the articulated needs of the Article 5 parties were addressed, information and good examples were shared, and networking was enhanced.*
- Organized 75 region- and country-specific compliance assistance services to address regional priorities and needs expressed by the countries. *As a result, the capacity of NOUs to deal with specific and emerging issues was increased, the articulated needs of the Article 5 parties were addressed, and experience sharing was improved.*
- Trained 35 new ozone officers and assistants in six regions through the National Ozone Officer (NOO) Training Programme. Organized two pilot advanced training sessions for the NOOs, to test the training materials and collect feedback. *As a result, new and experienced national ozone officers and assistants were better equipped with knowledge and resources to ensure smooth transition and continuation of the Montreal Protocol activities at the national level.*
- Provided CAP assistance to 147 Article 5 countries and supported the implementation, monitoring and reporting of institutional strengthening (IS) projects in 103 countries. *As a result, most countries are in compliance with their Montreal Protocol reporting obligations and phase-out targets, MLF-funded projects are successfully managed; national stakeholders and public are supportive of Montreal protocol objectives and interested NOUs are participating in the*

⁴ UNEP/OzL.Pro/ExCom/93/94

⁵ See Annex 7 for more details.

OUTCOME 2: Article 5 countries report accurate and timely data

- Provided regular monitoring of the data submissions, follow-up with the countries to ensure that deadlines are met, and individual support for reviewing of country programme (CP) and Article 7 data leading to timely and efficient data reporting for Article 7 of the Montreal Protocol, and CP implementation reports, providing additional specific support to individual countries as required. *As a result, most countries reported CP and Article 7 data on time and are in compliance with their Montreal Protocol targets.*

OUTCOME 3: Effective legal, regulatory and policy frameworks are in place and enforced

- Monitored the status of Montreal Protocol laws, regulations and policies through meetings and project implementation, assisted countries to establish the HFC licensing and quota system and strengthen their HCFC licensing and quota system including through implementing of recommendations from the verification reports. As of August 2024, a total of 111 Article 5 countries have successfully established, and are in-compliance with their HFC licensing systems. *As a result, Article 5 countries have enforceable Montreal Protocol legislation in place, including licensing and quota systems capable of ensuring compliance with the phase-out and phase-down schedules.*

OUTCOME 4: Imports and exports are controlled, and illegal trade is reduced/prevented

- Supported individual countries to update, monitor or enforce their national regulations and policies to facilitate and monitor legal trade in controlled substances and to combat illegal trade through an integrated approach. *As a result, regulation on control of the Montreal Protocol and the Kigali Amendment substances are updated, monitored and enforced, legal trade is facilitated, and illegal trade is minimized.*
- Continued and enhanced partnership, based on a cooperation agreement, MOU and annual workplan, with the World Customs Organisation (WCO) to provide appropriate information and training materials for customs officers and NOOs on issues related to facilitating legal trade and prevent illegal trade in controlled substances, and engagement in enforcement operations. *As a result, NOUs and customs officers have increased awareness and understanding about critical Montreal Protocol Customs issues, including best practices, innovative approaches, and ways to combat illegal trade in controlled substances.*

OUTCOME 5: Key stakeholders and the public enthusiastically support national compliance programmes

- Developed new regional and global capacity building and information products and services including factsheets, publications, manuals, smartphone, and desktop applications (see details in Annex 5). In addition, the OzonAction website was maintained up to date, and 25 editions of the OzoNews electronic newsletter were prepared and disseminated (22 regular biweekly issues and 3 special issues). The OzonAction website underwent updates and enhancements, including the redesign of various web pages, and had 192,100 users and 316,400 page views. Some regional teams conduct regular surveys on their networks' needs and priorities, and those surveys show that the usefulness of CAP products, including publications and fact sheets, is reasonably high. *As a result, NOU's are provided with a variety of products and tools to help them with implementation of the Montreal Protocol projects and activities.*

- Encouraged and assisted countries to celebrate International Ozone Day⁶. Some regions provided a catalogue of proposed awareness raising activities and suggested products for World Ozone Day celebrations. *As a result, World Ozone Day celebrations are consistently organised in Article 5 parties. Public awareness of, and support for, the Montreal Protocol is increased.*
- Cooperated with the World Refrigeration Day Secretariat and industry associations worldwide to celebrate World Refrigeration Day, 26 June, under the 2024 campaign theme “Temperature Matters: Absolutely. OzonAction social media post "4 reasons why temperature matters" were prepared and distributed through ROAP social media platforms.⁷ *As a result, World Refrigeration Day celebrations are consistently organised in Article 5 parties. Public awareness of, and support for, the Montreal Protocol and the role of the RAC sector is increased.*

OUTCOME 6: Non-ODS, low GWP technology is adopted and used safely, and servicing sector workforce skills are strengthened

- Continued and expanded partnerships with industry associations, *inter alia*, the European association of refrigeration, air conditioning and heat pump (RACHP) contractors (AREA), ASHRAE, International Institute of Refrigeration (IIR), Air-conditioning, Heating and Refrigeration Institute (AHRI), Indian Society of Heating, Refrigerating and Air Conditioning Engineers (ISHRAE), and Federación de asociación iberoamericana (FAIAR), and Union of Associations of African Actors in Refrigeration and air Conditioning (U-3ARC). *As a result, institutional reputation, expertise, and knowledge products of these world-recognised partners are harnessed to help Article 5 countries in the implementation of the Montreal Protocol.*
- Further developed and implemented main and other global products and activities ("Global CAP activities"), e.g., Refrigerant Driving License (RDL) and the Global training programme for the refrigeration servicing sector.⁸ *As a result, NOUs are provided with variety of products and tools to help them ensure a smooth transition to lower-GWP and energy efficient refrigeration and air conditioning technology and servicing practices.*

OUTCOME 7: Energy efficiency is maintained or increased in the RAC sector

- Organised seven Energy Efficiency Twinning Workshops back-to-back with network meetings (more details are provided in the following Twinning project progress report). *As a result, the cooperation between energy efficiency policy makers and NOOs is increased and the NOOs significantly enhanced their knowledge of energy efficiency technologies and refrigeration and air conditioning (RAC) system operations.*
- Assisted NOOs to understand the regulatory and policy options for energy efficiency and the importance of adhering to recent standards, implementing Minimum Energy Performance Standards (MEPS), and utilizing tools such as Product Registration Systems. *As a result, coordination between NOOs and NEPs on designing and implementing energy efficiency policies is improved.*

OUTCOME 8: Gender issues and approaches are considered and addressed in Montreal Protocol programmes and projects

- Promoted gender mainstreaming through both project support and CAP services. A dedicated

⁶ World Ozone Day, 16 September 2023 | Ozonaction (unep.org)

⁷ Temperature: Why it Absolutely Matters! OzonAction Celebrates WRD, 26 June | Ozonaction (unep.org)

⁸ See Annex 5 for more details.

page on gender mainstreaming⁹ is available on the OzonAction website and includes all relevant resources for the NOUs to use in their work. In the reporting period, one guidebook on gender mainstreaming was published: *The Guidebook on Mainstreaming Gender in the Implementation of the Montreal Protocol*. IWD campaign (2024) “Invest in Women, accelerate progress” was organized in March. UNEP ensured that the projects that it helped prepare took gender mainstreaming into account as per the Multilateral Fund guidelines, including new gender mainstreaming requirements for the IS projects, in line with decision 91/63; one regional workshops for female technicians were organized in the Caribbean; several regional workshops on gender mainstreaming or gender related sessions at the network and/or thematic meetings were organized in most regions. Countries were briefed about improved requirements for gender mainstreaming in the Multilateral Fund-supported projects and resources and tools that are available to them. *As a result, consideration of gender mainstreaming in implementation of Montreal Protocol project and activities has been enhanced.*

OVERARCHING: Article 5 countries meet their commitments through effective and timely implementation of Multilateral Fund projects

- Assisted Article 5 countries with the preparation and submission of 159 projects approved at the 93rd and 94th Executive Committee meetings - 30 HCFC phase-out management plan (HPMP) tranches, including 7 new stages, 13 HPMP verification reports, 39 Institutional Strengthening projects, 2 HPMP preparation (PRP) project, 8 KIP preparation (PRP) projects, 23 KIP implementation project, 15 energy efficiency projects in line with decision 89/6 (two standalone and 13 with tranche requests), 2 energy efficiency pilot projects in line with decision 91/65 and 27 ODS banks and disposal plan projects, in line with decision 91/66. *As a result, most countries submitted their project proposals on time and in accordance with UNEP’s Business Plan. Some regions are experiencing delays in submission of some tranches and new stages and UNEP will provide priority assistance to those regions to assist them with overcoming the delays.*
- Supported the implementation of HPMPs in 105 countries: 77 as the Lead Agency and 28 as Cooperating Agency and implementation of KIPs in 24 countries: 10 as the Lead Agency and 14 as Cooperating Agency. *As a result, those countries are in compliance with their Montreal Protocol targets, and HCFCs are being systematically phased-out; and KIP implementation is started*

⁹ OzonAction and Gender Mainstreaming (unep.org)



Digital Campaign

INTERNATIONAL WOMEN'S DAY 2024

This campaign celebrates 9 extraordinary women who have been instrumental in protecting the ozone layer through the Montreal Protocol. It shares inspiring stories about the critical works done by women. We aim to empower the next generation of environmental champions.

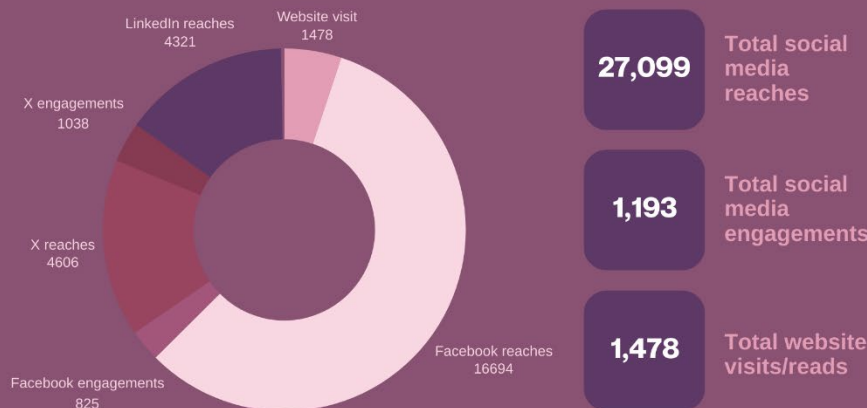
Products



Stories

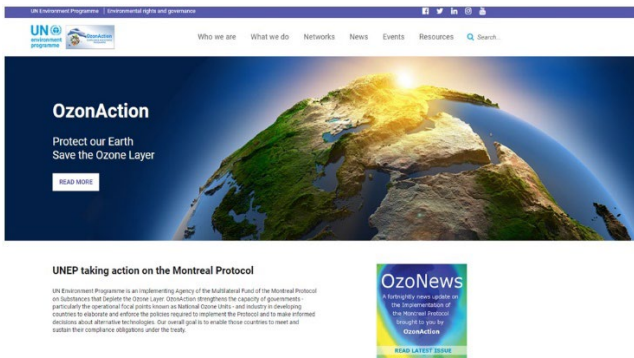
- **YVETTE GAUTHÉ BOKO:** A strong woman at the head of the NOU.
- **SARAH NAKANYIKA:** A Woman Leading Cooling Advancement in Zambia.
- **CECILIA MERCADO:** A legacy of environmental leadership and empowerment.
- **MARTA PIZANO:** A trailblazer's path from research to global policy.
- **LIAZZAT RABBIOSI:** A Woman Facilitating International Environmental Policy-making.
- **LAURA LÓPEZ:** Driving the Montreal Protocol and gender equity in Guatemala.
- **COLLEEN KEYWORTH:** Leading Advocate for Women in HVACR.
- **SAMIRA DE GOBERT:** Leading Change in Environmental Communication.
- **MIRUZA MOHAMED:** A Woman Behind the Maldives' Environmental Transformation.

Performance overview



OZONACTION WEBPAGES STATISTICS

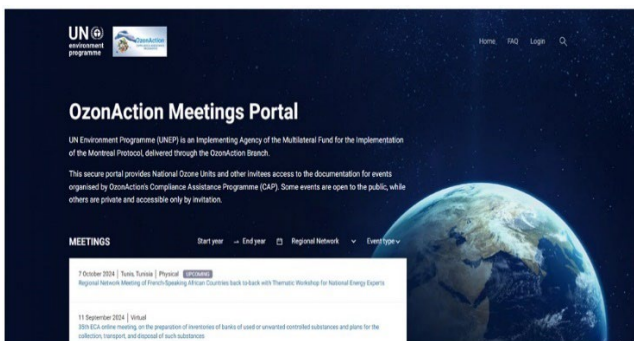
As part of its mandate to serve as an information clearinghouse, the OzonAction website, OzonAction Meeting Portal, and Ozone Action YouTube Channel provide National Ozone Units and other stakeholders with essential resources to support national efforts in achieving the objectives of the Montreal Protocol. Below are the key statistics on website usage for this reporting period:



OzonAction website

(www.unep.org/ozonaction)

- The website attracted **192,100 users**, marking a **1.6% increase** compared to last year's period, and generated **316,400 pageviews**.
- **82.4% of the traffic** came from **organic search results** (unpaid search engine results), followed by **13% from direct links**, **4% from referrals**, and **0.2% from other sources** (such as organic social, paid search, and organic video channels).
- **56% of users** accessed the website via desktop or laptop computers, while **42.4% used mobile devices**, **1.5% used tablets**, and **0.3% accessed it from smart TVs**.



OzonAction Meeting Portal

(www.ozonactionmeetings.org)

- The OzonAction Meeting Portal recorded a total of **1,500 users**, with **30 meeting spaces** created during the reporting period
-



OzonAction YouTube Channel

(www.youtube.com/ozonaction)

- The received significant engagement, with a total of **161,155 pageviews** for the same reporting period. The channel also saw a growth in its subscriber base, reaching a total of **9,032 subscribers**, which includes **684 new subscribers** acquired during this period.

These statistics highlight the growing impact of the website, meeting portal, and YouTube channel, showcasing their effectiveness in reaching a diverse global audience.

Progress report on energy efficiency Twinning project (Phase-I: 2023-2024)

Twinning of Ozone Officers and National Energy Efficiency Policymakers to Support Kigali Amendment Objectives

Reporting period : 1 September 2023 – 31 August 2024

Introduction

The 91st meeting of the Executive Committee approved the global technical assistance project entitled “Twinning of Ozone Officers and National Energy Efficiency Policymakers to Support Kigali Amendment Objectives” (Phase I: 2023–2024). As per Decision 91/42, the second phase of the project should be submitted as part of UNEP’s CAP budget and must include a final report outlining the lessons learned from the implementation of the first phase. Since the current project is still under implementation (details below), UNEP is providing this preliminary report in response to that decision.

The project's overarching objective is to enhance the climate benefits of the refrigerant transition under the Montreal Protocol by maximizing a simultaneous improvement in the energy efficiency of the cooling sector through enhanced policy and programmatic coordination at the national and regional levels. The project aims to strengthen the capacity of National Ozone Officers (NOOs) so they can effectively adjust their national Montreal Protocol compliance programmes to align with the Kigali Amendment and incorporate energy efficiency considerations in the refrigeration and air conditioning sector.

The project is linked to the Regional Network meetings by providing an opportunity to further engage one national energy efficiency policymaker (NEEP) and (optionally) one focal point for a relevant financial mechanism (FPFM) per country and allows them to participate and follow up on the concept of “twinning” with the NOO from the same country to further advance energy efficiency considerations in the implementation of the Montreal Protocol.

As part of this project, UNEP planned and organized Twinning workshops in 2023-2024 to provide an opportunity for NOOs and their NEEP and FMFP counterparts to exchange experiences, share knowledge, coordinate policies, and identify potential joint activities to advance the ozone-energy efficiency-climate agenda. This interaction catalyzed enhanced cooperation at the national level between these stakeholder groups and enabled individual governments to integrate energy efficiency more rapidly into the ongoing Montreal Protocol, energy policy, and climate policy processes. The NOOs, NEEOs, and FMFPs benefited from the project’s lessons learned regarding the creation of an enabling environment, particularly in terms of institutional coordination and capacity building at the national level. The capacity building and networking achieved during these meetings provides a framework for further in-depth engagement in specific countries and regions by UNEP and other organizations. Participation in the project is voluntary and is being offered as a service to NOOs, NEEPs, and FMFPs. UNEP provided a workshop forum for these officials and the international and regional partners to interact, share knowledge, and learn from one another. The workshops were held back-to-back with the Regional Network meetings to minimize travel costs for the NOOs.

This preliminary progress status report provides an overview of the activities and achievements of the *"Twinning of Ozone Officers and National Energy Efficiency Policymakers to Support Kigali Amendment Objectives"* project during the reporting period from September 1, 2023, to August 31, 2024.

Project Objectives and Sustainability

Based on the needs of Article 5 countries, this project aims to enhance the climate benefits derived from the transition to alternative refrigerants under the Montreal Protocol. Its overarching goal is to achieve a dual outcome: not only reducing the environmental impact but also maximizing energy efficiency improvements within the cooling sector. This is currently being accomplished through a strategic approach involving enhanced policy and program coordination at both the national and regional levels. The project also recognizes the critical role of National Ozone Officers (NOOs) by empowering them to effectively adapt their national Montreal Protocol compliance programs to align with the Kigali Amendment while incorporating energy efficiency considerations into the refrigeration and air conditioning sector.

The primary objectives of the project are to:

1. Facilitate and support the national policy direction and development planning regarding the energy efficiency of the cooling sector at the national level.
2. Share experiences and success stories of countries, bilateral and implementing agencies, and other partners in building and cooling sectors.
3. Explore synergies between the Multilateral Fund and the Green Climate Fund/Global Environment Fund in assisting in the building sector and energy efficiency.
4. Enhance communication and coordination between relevant stakeholders and ongoing projects in the cooling sector at the national level.
5. Enable better coordination between NOOs and other government stakeholders involved in adopting energy-efficient and low-GWP cooling technologies.
6. Facilitate the inclusion of energy efficiency aspects in Multilateral Fund-supported projects.

The project's sustainability strategy revolves around leveraging the well-established infrastructure of Regional Network meetings and engaging one national energy efficiency policymaker (NEEP) from each participating country, with the option to involve a relevant financial mechanism focal point (FPFM) as well. This collaborative approach will encourage 'twinning' between the NEEP and the NOO from the same country and foster technical understanding and cooperation, building political support for energy-efficient and low-GWP cooling solutions.

Summary of Project Activities and Status:

At the start of project implementation, UNEP defined the project's goals, objectives, and main components. These elements were communicated with the project teams and an initial project implementation plan was prepared, outlining the project's primary components, all based on the approved project proposal.

Building upon the agreed initial implementation plan, essential project resources and tools were systematically identified and allocated to each regional network, and necessary adaptations to address each network's requirements and specific needs. This approach ensured that sufficient resources and tools were

available to support the project's various components and key activities within each regional network.

The following key activities were undertaken:

1 - Initial Preparation

- **National-Level NEEPs and FMFPs Identification:** The criteria for supporting nominating eligible National Energy Efficiency Policymakers (NEEPs) and Financial Mechanism Focal Points (FMFPs) to participate in the workshop were established and suggested. These criteria served as a guiding tool to assist countries in making well-informed selections and finalizing the identification of participants for the Joint Twinning Workshop and requested each country to nominate a NEEP (mandatory) and an FMFP (optional). For the NEEP, criteria include position, expertise, and knowledge, focusing on their familiarity with national energy policies and programs. Similarly, for the FMFP, criteria include position, expertise, and knowledge related to financing strategies and policies. Both nominees should demonstrate engagement and commitment to actively participate in the workshop and contribute to discussions and activities both prior to and after the workshop.
- **Development of Needs Assessment Survey/Questionnaire:** A comprehensive Twinning workshop needs assessment questionnaires were prepared and developed. This questionnaire tool aims to capture critical topics, information requirements, and knowledge gaps related to energy efficiency and low-GWP refrigerants. It has been distributed to National Ozone Officers (NOOs) and NEEPs/FMFPs to gather their input and encourage stakeholder engagement.
- **Identification of Technical Experts:** The technical experts from partner organizations who will serve as speakers/trainers during the workshop were identified and engaged. These experts addressed issues related to energy efficiency and low-GWP refrigerants.
- **Tools and Capacity-building Materials:** Identified existing tools, information, and capacity-building materials based on the needs identified in the needs assessment analysis reports to facilitate effective knowledge sharing and capacity building during the workshops.

2 - Twinning Workshops Organization:

- **Work plan prepared:** Prepared a detailed work plan and tasks checklist, ensuring progress monitoring for timely execution. Additionally, technical content and related materials were prepared and distributed.
- **Workshop Agenda:** Prepared and agreed on a draft agenda for the Twinning workshop, aligning it with the needs identified in the needs assessment survey. This ensures that the workshops address the specific requirements of participants and will include topics such as identifying synergies for energy-efficient and clean cooling, understanding institutional relationships, evaluating collaboration between ozone and energy focal points, and policy alignment.
- **Workshops Structure:** The workshop's structural framework was prepared and designed to encompass a dynamic blend of plenary sessions, smaller breakout working groups, and an interactive meeting format to promote immersive participation among the project "twins" - National Ozone Officers (NOOs) and National Energy Efficiency Policymakers (NEEPs) and Financial Mechanism Focal Points (FMFPs). Participants engaged in a wide range of activities designed to achieve the workshop's objectives. These activities included:

- Interactive Discussions: Participants actively participated in discussions related to energy efficiency policies, the adoption of low-GWP refrigerants, and their integration into national policies.
- Breakout Working Group Exercises: Participants had the opportunity to discuss their roles in integrated energy efficiency within the context of the Kigali Amendment. Also, they identified collaboration opportunities between Montreal Protocol activities and energy efficiency initiatives in their respective countries. For example, groups with manufacturing sectors focused more on public procurement policies, market inspection, and incentives, while non-manufacturing sector groups discussed more on product registrations, import licenses, and customs processes.
- Plenary (expert-led) Sessions: Technical experts facilitated sessions, providing valuable insights and addressing successful policies and regulations that drive the adoption of energy-efficient and climate-friendly cooling technologies, as well as institutional initiatives promoting energy efficiency and ozone protection.
- Case Studies: Shared insights into successful projects and programs, highlighting the challenges faced and strategies employed.

Post-workshop evaluation surveys were developed and distributed to participants to gather comprehensive feedback on the effectiveness of the workshops. These surveys aim to assess various aspects of the workshops, including content relevance, delivery quality, participant engagement, and practical applicability. The feedback collected will be instrumental in identifying strengths, pinpointing areas for improvement, and refining future workshop initiatives to better meet participant needs and project goals.

Current Twinning Workshops Status:

During this reporting period, the project has made substantial progress, achieving significant milestones across several key areas, including project preparation and the successful implementation of eight Twinning Workshops conducted back-to-back with the network meetings.

As of 31 August 2024, the following Twinning Workshops have been successfully conducted:

- Joint Twinning Workshop between Europe & Central Asia (ECA) and West Asia (WA) Networks (Date: 25-26 September 2023 / Location: Amman, Jordan)
- Pacific Islands Network Twinning Workshop (Date: 5-6 February 2024 / Location: Rarotonga, Cook Islands)
- South Asia and Southeast Asia Networks Twinning Workshops (Date: 20-21 May 2024/ Location: Guangzhou, China)
- English-speaking African Network Twinning Workshop (Date: 13-14 June 2024/ Location: Maputo, Mozambique)
- Caribbean Network Twinning Workshop (Date: 20-28 June 2024/ Location: Panama City, Panama)
- Latin America Networks Twinning Workshop (Date: 1-2 August 2024/ Location: Santiago, Chile)

All materials related to these workshops, such as agendas and presentations, are available on the OzonAction Meeting Portal. For reference, please see the photos from the Twinning workshops provided in Annex 1.

The next event, the French-speaking African Network Twinning Workshop, is scheduled for 7-8 October 2024 in Tunisia.

Summary of the Project Outcomes and Initial Key Findings/Recommendations

By strategically focusing on key areas such as policy alignment, capacity building, and regional collaboration, these workshops have paved the way for sustained advancements in sustainable cooling solutions and fostered a shared commitment to addressing the interconnected challenges of ozone layer protection and energy efficiency. The workshops have also highlighted the critical role of stakeholder engagement and private sector participation in driving the adoption of low-GWP technologies and energy-efficient practices.

Currently, the initial draft reports for all the Twinning Workshops are in preparation. These reports will provide each workshop's outcomes, key findings, and recommendations, and will guide the development of strategies for future phases of the project, ensuring that lessons learned are effectively integrated into ongoing and upcoming initiatives.

The following recommendations and key findings are examples derived from initial feedback and draft Twinning workshop reports:

- Participants across various workshops gained substantial knowledge about integrating energy efficiency into the Montreal Protocol's objectives, focusing on the refrigeration and air conditioning (RAC) sector. The workshops emphasized the importance of regulatory development and practical strategies for reducing energy consumption, with a particular focus on the Kigali Amendment's goals.
- The workshops facilitated collaboration between National Ozone Officers, National Energy Efficiency Policymakers, and other stakeholders, underscoring the need for integrated environmental policies. This collaboration is critical for promoting energy-efficient and low-GWP (Global Warming Potential) technologies, particularly through joint regional initiatives and knowledge sharing.
- The workshops emphasized the importance of adopting and enforcing Minimum Energy Performance Standards (MEPS) and energy labeling. The development of National Cooling Action Plans (NCAPs) was highlighted as a means to align with both the Montreal Protocol and the Paris Agreement, contributing to broader Sustainable Development Goals (SDGs).
- The role of the private sector in advancing sustainable technologies was emphasized, with discussions on innovative financing mechanisms, public procurement strategies, and the importance of proactive stakeholder engagement to drive energy efficiency in the RAC sector.
- The adoption of relevant international standards was recognized as crucial for preventing the proliferation of outdated, inefficient products in local markets. Countries should update and enforce international standards for RAC equipment to prevent the import of inefficient appliances.

and ensure compliance with MEPS. This aligns with reducing carbon emissions and promotes sustainable market practices.

- To maintain momentum and ensure continuous capacity building, participants recommended more workshops with enhanced practical learning experiences, including site visits and hands-on sessions.
- A regional approach is essential for overcoming barriers to energy efficiency and refrigerant phase-down. Workshops should focus on harmonizing standards, sharing successful case studies, and encouraging regional cooperation to align policies and institutional capacities.
- Securing international funding, such as from the Multilateral Fund (MLF), and exploring innovative financing models like "cooling as a service" are vital to overcoming financial barriers and promoting the adoption of energy-efficient technologies.
- Robust data collection and management systems are necessary for effective policy-making and monitoring. Improved guidance and support in this area will enhance the planning and implementation of energy efficiency initiatives.
- Continuous engagement with stakeholders across sectors is crucial for advancing the Kigali Amendment's objectives. Formal agreements and regular dialogue among key agencies will ensure sustained collaboration and progress.
- Tailored national and regional plans focusing on RAC systems should be developed, with actionable measures to improve energy efficiency and reduce greenhouse gas emissions. These plans should include strategies for overcoming technical and financial barriers.

Conclusion

During this reporting period, the project achieved key milestones, including the preparation and successful implementation of eight Twinning Workshops held back-to-back with the network meetings. These accomplishments indicate the advancement of the project and the robust collaboration and shared commitment across diverse regional networks. The workshops have been instrumental in addressing common challenges, fostering knowledge exchange, and reinforcing the importance of collective efforts to advance energy efficiency and ozone protection initiatives in Article 5 countries.

The workshops highlighted the critical role of integrating energy efficiency with ozone layer protection efforts, offering participants practical insights into successful case studies, emerging technologies, and innovative policy frameworks. This enhanced understanding is crucial for driving forward the objectives of the Kigali Amendment and aligning national actions with global climate goals.

Key outcomes from the workshops include strengthened regional and international collaboration, the development of strategic policy frameworks, and recognition of the value of adopting and enforcing Minimum Energy Performance Standards (MEPS) and energy labeling as vital tools for transforming

markets and reducing greenhouse gas emissions. The workshops also emphasized the importance of ongoing stakeholder engagement, the adoption of relevant international standards, and the need for continuous capacity building to sustain momentum in these efforts.

The project's achievements to date set a strong foundation for future progress, with further advancements expected from the upcoming Twinning Workshop for the French-speaking African Network, scheduled for October 7-8, 2024, in Tunisia.

The expected closure date for the current phase (Phase I) is 31 December 2024. Following the completion of the last workshop in October 2024, and the final project report including lessons learned will be developed. UNEP will submit the report along with the proposal for the second phase to the 96th Executive Committee meeting for its consideration.

This proposal will draw from the final recommendations and findings gathered during the first phase, ensuring that the next phase is informed by a detailed understanding of the challenges and opportunities identified from first phase of the project. The second phase will aim to expand and deepen the impact of the project, further strengthening the capacity of Article 5 countries to meet their climate and ozone protection commitments while promoting sustainable development.

OzonAction-U4E Cooperation

OzonAction has a longstanding partnership with UNEP's United for Efficiency (U4E) programme to pursue energy efficient and climate friendly solutions in the refrigeration and air conditioning sector in Article 5 countries. U4E is a global effort supporting developing countries and emerging economies to move their markets to energy-efficient appliances and equipment. It helps countries implement an integrated policy approach to enable a sustainable and cost-effective transformation to energy-efficient lighting, equipment and appliances.

This cooperation started with the joint project Building High-Level Support and National Capacities to Enhance climate and Ozone Protection through Cooling Efficiency, which was approved in 2017 by the Kigali Cooling Efficiency Programme (now the Clean Cooling Collaborative). Under that project, OzonAction and U4E jointly delivered six regional twinning workshops and two global workshops over the period 2018 and 2019 for all Regional Networks. Those workshops helped the two national stakeholder groups start working together in linking energy efficiency improvements while phasing out HCFCs and to begin considering HFCs. Following the 91st Executive Committee's approval of the Twinning for Montreal Protocol Officers, Energy-Efficiency Policy Makers, and Financial Mechanisms Focal Points to Support Kigali Amendment Objectives, U4E regularly participates in those meetings and provides much appreciated expertise in the energy efficiency field related to the cooling sector.

OzonAction and U4E are exploring collaboration in different areas beyond the Twinning workshops. U4E has expertise, tools and resources in areas that could further assist individual Article 5 countries or regions with achieving their energy efficiency objectives in support of the Kigali Amendment including Development of MEPS and Labels; Product Registration, Testing and Market Surveillance; and Consumer Awareness Campaigns and Financial Mechanisms.

Annex 1: Twinning workshops photos

Joint Twinning Workshop between Europe & Central Asia (ECA) and West Asia (WA) Networks, 25-26 September 2023, Amman, Jordan



South Asia and Southeast Asia Networks Twinning Workshop, 20-21 May 2024, Guangzhou, China



English-speaking African Network Twinning Workshop, 13-14 June 2024, Maputo, Mozambique



Pacific Islands Network Twinning Workshop, 5-6 February 2024, Rarotonga, Cook Islands



Caribbean Network Twinning Workshop, 20-28 June 2024, Panama City, Panama



Report on technical and policy support for LVC countries to support KIP implementation

Through Decision 93/95 (d)(ii), the Executive Committee approved an increase in the CAP budget for the years 2024, 2025 and 2026 for providing technical and policy assistance to LVC countries to support KIP implementation on the understanding that UNEP would *inter alia* report on the technical and policy assistance activities provided to LVC countries and their impact as part of the narrative of their CAP annual progress reports. This report responds to that decision. Areas of support in 2024

Noting that the activities are still in preparation as of the time of the submission of this document, the prioritized areas identified for this special LVC assistance is:

1. Strengthen Capacity of LVCs on Licensing and Quota System (LQS) and Consumption Trends.

UNEP identified two objectives under this work stream: (a) To identify effective approach and prepare a report with aim to share effective LQS mechanisms to LVCs which implement KIP Stage I and to enhance management of HFC trade controls through improved monitoring, reporting, and enforcement of HFC licensing and quota systems (2 case studies). (b) To monitor 2023 and 2024 HFC consumption trends in LVCs which implement KIP Stage I (selected countries) and prepare a report which assists in understanding the extent to which reported consumption in baseline years was representative of the local market's needs and to assess what will be the future HFC demand in these countries (2 case studies).

2. Early action to support LVCs in the mobile air conditioning (MAC) sector. UNEP plans to strengthen the capacity of NOUs in this sector and assess the consumption trends in selected countries. The technical assistance will be provided to better understand the baseline data on HFC consumption in the MAC sector (CO₂-eq), the methodology for data capture and analysis, an inventory of MAC sector equipment, an inventory of importers of MAC equipment, and an inventory of MAC sector service workshops. Another work stream in this field is to prepare a LVC MAC sector response plan (2 pilot countries) in the following areas: training for LVC NOUs in MAC sector consumption assessment, training for service workshops in data collection and reporting (with a component on gender mainstreaming to encourage the participation of women), awareness raising in the MAC sector within the context of the KIP stage I implementation.

3. The local installation and assembly subsector. Virtually every country will have some consumption in this sector, and it represents a largely untapped opportunity for reducing refrigerant consumption and promoting best practices under the Multilateral Fund. Since the assembly sector is largely unfamiliar to LVCs, UNEP plans to provide them with assistance regarding the methodology to understand the sector better, identify levels of HCFCs or HFCs used in the local installation, assembly and first charge of new refrigeration and air-conditioning (RAC) systems. Also, UNEP will identify priority areas where it can assist LVCs through non-investment activities to convert local installation and assembly enterprises to low-GWP alternatives. This may include regulations and policies, capacity building, and training and awareness raising programmes for the design of systems using alternative technologies and in the handling of alternative refrigerants that are flammable, toxic or under high pressure.

4. Training of CAP staff on energy efficiency and MEPs. Energy efficiency is becoming a growing priority for Montreal Protocol implementation in the context of Kigali Amendment. UNEP's CAP team needs to enhance its own knowledge and skill on energy efficiency and MEPs so that it can in turn provide appropriate technical assistance to NOUs and other stakeholders in Article 5 countries. The CAP team needs to deepen its knowledge which would help it to identify energy efficiency needs and opportunities and

support the development and implementation of appropriate energy efficiency policies and measures in LVCs linked to, or in outside of, KIPs. CAP staff will be supported to participate in energy efficiency training programmes organized by relevant institutions such as the International Energy Agency (IEA) and others.

Status

The terms of reference for the consultants that will be hired for the first three activities are being finalised and they are expected to be retained by December 2024. All four activities are planned to be completed before the end of 2025 to comply with the 24-month deadline to use funds approved in December 2023.

2024 Progress report details

Overarching Desired Outcome: ARTICLE 5 COUNTRIES MEET AND SUSTAIN COMPLIANCE WITH MONTREAL PROTOCOL AND AMENDMENTS			
Outcomes	Outputs		
OUTCOME 1 National Ozone Units effectively manage their national programmes	- All Article 5 countries with Institutional Strengthening projects approved for UNEP implementation have NOUs that function effectively and deliver the outputs described in their IS renewal. - Any NOU requesting region- and country-specific compliance assistance to address specific technical, policy, or operational issues is provided with that support. - All Ozone Officers and/or their assistants learn from peer-to-peer interaction and strengthen cooperation at the regional and international levels through participation in Regional Networks of Ozone Officers, which may include physical and/or online regional, sub-regional, inter-regional, and/or thematic meetings. - All new Ozone Officers and/or their assistants acquire the basic skills, competencies and understanding of the Montreal Protocol and Multilateral Fund. - Any Ozone Officer who wishes to further enhance her/his management of their NOUs acquires those advanced skills. - Selected Ozone Officers (pilot) receive training on multilateral environmental agreement (MEA) negotiation skills with regard to Montreal Protocol/Multilateral Fund meetings. - Any NOU requesting or needing specific support is assisted through country-to-country (south-south/north-south) cooperation facilitated by CAP, e.g., NOU-NOU meetings, study tours, technology roundtables. - NOUs are assisted to explore synergies related to Montreal Protocol and Kigali Amendment objectives with national energy efficiency policymakers, financial mechanism focal points, climate change focal points, and others through the approved twinning project and other activities.		
2024 Activities	Indicators	Number	Progress
1. Provide all Article 5 countries with IS projects approved for UNEP implementation with technical assistance to expedite the preparation, implementation, monitoring and reporting of IS phases as per Annex 2	Number of IS phases successfully implemented and monitored	103	- Supported IS project implementation, monitoring and reporting, as well as submission of IS renewals. Re-started IS project activities in Morocco and South Sudan, started IS project activities in South Africa. - Provided countries with technical assistance and innovative implementation intervention where required. - Organized briefing sessions on the new IS reporting format (decision 91/63) during network meetings. Explained the change of template for renewal and change in activities of the IS project - Ensured that gender mainstreaming was taken into account as per Multilateral Fund guidelines during the implementation and preparation of renewals.
2. Provide support to any NOU requesting region- and country-specific compliance assistance needed to address specific technical, policy, or operational issues as per Annex 3, or as per ad hoc requests.	Number and type of services delivered	74	- ECA study tour of Armenian delegation to waste / disposal plants in Warsaw, Poland, Nov 23; ECA online meeting 32 on revised EU F-gas regulation and the preparation of inventories of banks, Nov 23; ECA online meeting 33 on EE projects and market transformation, Mar 24; ECA online meeting 34 on needs and priorities ClimaCheck devices and project challenges, Jun 24 (ECA) - Provided country-specific services through direct contact with Ozone Officers, network and thematic meetings, and other bilateral/group discussions, one-on-one meetings, and interactions; Followed up with countries that had experienced institutional changes, political instability, or change of NOO (Oman, Iraq, Jordan, Qatar, Syria and Yemen) and provided support for continued implementation. Responded to all queries and requests received from network countries; CAP provided country-specific services to Oman, Qatar, Iraq, Saudi Arabia and Syria to resolve issues arising from recent governmental setups especially to address specific requirements/ conditions under their HPMPs. Missions were undertaken to the 5 countries

			to follow-up on unresolved issues affecting the timely implementation of HPMPs (WA) • Provided ad hoc support to Cambodia and Lao PDR on revision of HFC during the baseline year in Article 7; Provided support to the Philippines and Timor Leste on the review of the institutional structure of the National Ozone Unit due to the government restructure; provided orientation of the Montreal Protocol with new NOU team of Thailand including initial obligations after ratification of the Kigali Amendment and provided support to Vietnam in reviewing the draft amendment of the regulation to support HCFC phase-out, HFC phase-down and banning import of RAC equipment. (SEA) • Assessed HFC consumption during the baseline year of 12 PICs from the KIP survey and arranged a session with support of the Ozone Secretariat to explain the PICs on procedures in changing HFC baseline consumption through the Implementation Committee; Provided ad-hoc support to Vanuatu during the long absence of the NOO to comply with annual obligations under the Montreal Protocol. (PIC) • Provided technical advice to Republic of Korea on HFC quota system and compliance targets as well as HCFC bans; Provided assistance to Mongolia with import issues from China as well as HFC quota system; Provided assistance to Sri Lanka on Free trade zones and transshipments; Provided advice to Bhutan and Nepal on IS implementation and staffing of NOU; Provided assistance to Iran on policy issues related to bans; Provided assistance to China on export issues to the EU. (SA) • CAP provided country-specific services to Mauritania and Morocco. A special mission was undertaken to Mauritania in January 2024 to assist the country to provide a special report on HCFC consumption. A special mission was undertaken to Morocco to assist the country to re-start IS activities and submit ISR. CAP followed-up with countries that had experienced institutional changes, political instability, and changes of NOO (Guinea Bisau, Guinea, Equatorial Guinea, Cape Verde, Cote d'Ivoire). All 26 Francophone countries were supported with gender mainstreaming and facilitation of iPIC mechanism. In addition, CAP responded to all queries and requests received from network countries and other partners. CAP/AF-F organized a training for 13 new ozone officers (- Burundi, Cameroon, Central Africa Republic, Comoros, Congo DRC, Congo PRC, Côte d'Ivoire, Guinea Bissau, Madagascar, Mali, Mauritania, Senegal, Togo) in Nouakchott in May 2024 on to provide NOOs/National Ozone Unit (NOU) staff with essential information and skills for the implementation of the Montreal Protocol. (AF-F) • Provided country-specific services to South Africa for the preparation and submission of its first Institutional Strengthening Project, and assisted South Sudan in overcoming political and institutional challenges to submit the second phase renewal of its Institutional Project to avoid delays. The projects were submitted to ExCom 94 and approved. Provided support to Botswana, Ethiopia, Eritrea, and Uganda to address potential compliance issues related to operational and project delays. CAP undertook missions to Angola, Malawi, Mauritius, Nigeria, Seychelles to resolve compliance issues related to institutional changes and funds disbursement, project implementation delays, misinterpretation of clause 6 in the SSFA, and provision of technical advice for project implementation. (AF-A) • Addressed country-specific requests through direct contact with Ozone Officers, (virtual) network and thematic meetings, and other bilateral/group discussions, one-on-one meetings, and interactions. Followed up with countries that had experienced institutional changes, political instability, or change of NOO (Bolivia, Nicaragua, Guatemala, Honduras, Peru) and provided support for continued implementation. Responded to all queries and requests received from network countries. (LA)
--	--	--	---

			• Provided country-specific services through direct contact with Ozone Officers, (virtual) 2 network meetings (Nov 2023 and Jun 2024), and other bilateral discussions, one-on-one meetings, and interactions. Responded to all queries and requests received from network countries; Provided country-specific support to countries through Country Missions - Saint Vincent and the Grenadines Sep 2023; Guyana Feb 2024; Dominica - June 2024; Antigua and Barbuda Sept 2024 (planned); Provided support to Antigua and Barbuda and Suriname for submission of 2022 A7 data to avoid Non-Compliance; Support to Saint Kitts and Nevis for correction of 2016 and 2019 CP and A7 data following verification of declarations identified by MLFS; Support provided to Saint Lucia for submission of 2023 CP data which was eventually submitted as "provisional"; Disseminated OzonAction technical information to all countries; Facilitated 2 shipment iPIC requests - Belize-EU; Suriname-China (CAR)
3. Organise Regional Network meetings for Ozone Officers in all ten regions, including physical and/or online regional, subregional, inter-regional, and/or thematic meetings, so that all Ozone Officers and/or their assistants can learn from peer-to-peer interaction and strengthen cooperation at the regional and international levels.	Number of meetings successfully organized (2 per region target)	69	• Organised regular Network and thematic meetings, in-person and virtually (see Annex 7). • Organised joint Network and/or Thematic meetings in the following regions: - Joint Network Meeting of ECA and WA in Amman, Jordan Sep 2023 (ECA & WA); - Joint Network Meeting of South Asia and Southeast Asia National Ozone Officer, Phuket, Thailand in Nov 2023 (SA & SEA); - Joint Network Meeting of South Asia and Southeast Asia National Ozone Officer, Guangzhou, China in May 2024 (SA & SEA); - Thematic Meeting for HAT/Group2 Countries in Dubai, UAE in Apr 2024 (SA & WA). • Organised Network and/or Thematic meetings in the following regions: - Online meeting 32 on revised EU F-gas regulation and the preparation of inventories of banks Nov 2023; Online meeting 33 on EE projects and market transformation Mar 2024; Network and enforcement meeting in Tirana, Albania Apr 2024; Online meeting 34 on needs and priorities ClimaCheck devices and project challenges Jun 2024 (ECA); - Thematic Workshop to Enhance Awareness and Communication under the Montreal Protocol, Phuket, Thailand, in Nov 2023 (SEA); - Network Meeting of the Pacific Island Countries' National Ozone Officers, Apia, Samoa in Sep 2023; Thematic Workshop on Nation-wide Data Collection under the Kigali HFC Implementation Plan (KIP) Preparation, Apia, Samoa in Sep 2023; Thematic Workshop on Establishment and Implementation of Competency-based Certification in Pacific Island Countries Rarotonga, Cook Islands, in Feb 2024; Thematic Workshop on Strategy of Stage I of the KIP and Integration with the HPMP Stage II for Pacific Island Countries Rarotonga, Cook Islands in Feb 2024; Network Meeting of the National Ozone Officers of Pacific Island, Koror, Palau in June 2024; Thematic Workshop on Finalization of the Stage I of the Regional Pacific Island Countries Kigali HFC Implementation Plan and Other Multilateral Fund Projects, Koror, Palau in June 2024 (PIC); - Network Meeting of Ozone Officers of Latin America in July 2024 (LA); - Two Network Meetings for the CAR Network (Nov 2023 and Jun 2024); Organized 1 Workshop for Women in RAC for the CAR Network (Nov 2023). (CAR) • Presented and shared information and experiences on Data reporting, Ratification, Licensing, and Quota Systems for HFCs; Needs and challenges of Kigali Implementation; Recommendations from the Implementing Agencies; Decisions of the Meeting of the Parties and the Executive Committee meetings;

			Gender mainstreaming; HFC inventories, Key elements in the short and medium term of the HFC phase-down Strategy, Evaluation of the Networks; CAP tools and services to support Kigali Implementation.
4. Offer introductory training to all new Ozone Officers and/or their assistants to acquire the basic skills, competencies and understanding of the Montreal Protocol and Multilateral Fund.	Number of Ozone Officers/assistants trained (all new Ozone Officers)	35	- The training programme for new NOOs reached a new important milestone as the entire programme was translated into the French language. - The CAP team organized an important 3-day training programme for the new NOOs in Francophone Africa. The training course aimed to strengthen the capacity of National Ozone Units to fulfil their duties effectively. The training programme was held from 14 to 16 May in Nouakchott, Mauritania. 23 NOU staff from 12 countries (14 female/9 male) participated in the training programme. - In 2024, the CAP team also organized training of New National Ozone Units for Pacific Island Countries in Koror, the Republic of Palau on 7-8 Jun 2024. The training was attended by a total number of 12 participants (7 female/5 male) from 11 countries. The training served a dual purpose: strengthening national capacity and providing the CAP team with a valuable opportunity to identify the specific requirements of each implementing country. This knowledge allows UNEP OzonAction to tailor its services to effectively address the unique needs of each country, thereby facilitating the smooth implementation of the Montreal Protocol. - The training programme for New Ozone Officers and NOO assistants is designed in a standardized way across the regions to enable them to fulfil the necessary tasks of NOU most effectively. The country-driven approach requires countries to have skilled and committed Ozone Officers and assistants who can effectively manage various activities at national, regional, and global levels. This NOU training programme is very well received by participants and UNEP will continue organizing the training programme as per the requests and needs of partner Article 5 countries.
5. Offer advanced training to any Ozone Officer who wishes to acquire advanced skills to further enhance her/his management of their NOUs.	Number of pilot trainings conducted	2	- The training package and components for the advanced (refresher) training for experienced NOOs have been finalized and are being tested. - The first pilot training was organized on 20-21 Nov 2023 in Phuket, Thailand. 11 NOU experienced staff from 10 countries (7 Female/4 Male) participated in the training programme. - The second Pilot Advanced National Ozone Officers Training Workshop NOO forum – open dialogue took place on 20-21 Jun 2024 in Panama City, Panama. The training was designed for a small number of participants in order to receive detailed feedback and comments on presentations, practical exercises and other documents. In total, 5 countries (Barbados, Bahamas, Saint Lucia, Saint Vincent and the Grenadines and Trinidad and Tobago) participated in the training +1 Jamaica (online) (4 Female/1 Male + 1 male online). - One of the goals of the advanced training programme is to enhance performance of NOO through upgrading skills and knowledge on the MP and KA as well as to build NOOs confidence in their abilities to implement complex assignments. This training also improves their performance and makes them work more efficiently and effectively. The CAP team received excellent feedback and detailed comments which will be incorporated into the modules.
6. Offer on a pilot basis training on multilateral environmental agreement (MEA) negotiation skills with regard to Montreal Protocol/Multilateral Fund	Number of pilot trainings conducted	0	This activity was not implemented in the 2024 CAP and will be carried over to 2025 CAP.

meetings for selected Ozone Officers.			
7. Support NOUs requesting or needing specific support through country-to-country (south-south/north-south) cooperation facilitated by CAP, e.g., NOU-NOU meetings, study tours, technology roundtables.	Number and type of country-to-country cooperation activities	75	- ECA study tour of Armenian delegation to waste / disposal plants in Warsaw, Poland, Nov 23; ECA online meeting 32 on revised EU F-gas regulation and the preparation of inventories of banks, Nov 23; ECA online meeting 33 on EE projects and market transformation, Mar 24; ECA online meeting 34 on needs and priorities ClimaCheck devices and project challenges, Jun 24; ClimaCheck training (8h) free-of-charge for interested RAC experts in English / Russian (ECA) - Continue to promote and support experience exchange among GCC countries to update their ODS regulations and standards; Experience exchange between Kuwait/Qatar, Iraq/Syria/ Palestine to facilitate the delivery of the MP funded projects soundly and timely; Contributed to facilitating country-to-country cooperation between Bahrain, Kuwait and Qatar on certification schemes for refrigeration technicians; Facilitated south-south cooperation between WA and ECA and SEA through organizing joint network and thematic meetings in 2023 and 2024. These joint meetings facilitated country-to-country communication and sharing of their national experiences on policy and technical aspects. (WA) - Facilitated or organized South-south cooperation with Indonesia - Study Visit of Brunei, Cambodia, Lao PDR, Malaysia, Thailand and Vietnam on Establishment and Implementation of Competency-based Certification of Refrigeration and Air-conditioning Technicians for the Southeast Asia Network, Jakarta, Indonesia in Oct 2023; South-south cooperation with Malaysia - Training of Assessor of 10 South Asia and Southeast Asia Countries on Competency-based Certification for Good Servicing Practices in the Refrigeration and Air Conditioning Servicing sector, Kuala Lumpur, Malaysia in Nov 2023 and South-south Cooperation with Thailand - Study Visit of Lao PDR and Vietnam to strengthen the enforcement of licensing system at the check-point and beyond the customs check point in Sep 2024 (SEA) - Facilitated south-south cooperation between Palau - Micronesia and between Palau - Marshall Islands on working attachment with the NOU of Palau (PIC) - UNEP facilitated country-to-country communications to share their national experiences during network/thematic meetings. During India's Study Tour, UNEP held information briefing on UNEP Tools and activities, especially on HFC Enabling Activities and helped to facilitate their visit with French Government. (SA) - Mali assisted Mauritania on the ratification process based on the country experience. Morocco and CAR NOU assisted on re-start of IS project. Mauritania NOU assisted on data accuracy; Bissau Guinea NOU assisted to finalise survey results. (AF-F) - Facilitated country-to-country communications between Botswana, Eswatini, Namibia, Zambia, and Zimbabwe, and provided a platform for countries to share their national border experiences. Facilitated South-South cooperation for 5 countries (Mozambique, Malawi, Eswatini, Ghana, Nigeria) to share experiences on KIP implementation (AF-A) - Supported country-to-country cooperation between Colombia and Peru on certification mechanisms for refrigeration technicians, and a study tour of Peruvian technicians to Colombia. (LA)
8. Assist NOUs to explore synergies related to Kigali Amendment objectives with national energy efficiency policymakers	Number of twinning workshops organised	7	During this reporting period, the project has achieved significant milestones in various areas, including project preparation, and the implementation of seven Twinning Workshops held back-to-back with network meetings. These accomplishments indicate substantial progress and emphasize the collaborative

and financial mechanism focal points through the approved twinning project.			efforts across different networks as of mid-July 2024. - Firstly, the Joint Twinning Workshop between the Europe & Central Asia (ECA) and West Asia (WA) Networks, was successfully conducted in Sep 2023, in Amman, Jordan. Subsequently, the Twinning Workshop for the Pacific Islands Network was held in Rarotonga, Cook Islands, in Feb 2024. In May, the South Asia and Southeast Asia Networks Twinning Workshop convened in Guangzhou, China, in May 2024. Later in June, the English-speaking African Network Twinning Workshop in Maputo, Mozambique, in Jun 2024. This was followed by the Caribbean Network Twinning Workshop in Panama City, Panama, in Jun 2024. - The workshops were particularly instrumental in addressing common challenges and emphasized the importance of collaborative efforts in advancing energy efficiency and ozone protection initiatives in Article 5 countries. National Ozone Officers significantly enhanced their knowledge of energy efficiency technologies and refrigeration and air conditioning (RAC) system operations. - As of mid-July 2024, a total of 199 National Ozone Officers, National Energy Efficiency Officers, and National Financial Focal Points have participated in the seven above mentioned Twinning Workshops. - Further progress is underway with the upcoming Twinning Workshops: The Latin America Networks Twinning Workshop, scheduled for August 1-2, 2024, in Santiago, Chile, and the French-speaking African Network Twinning Workshop, scheduled for September 7-8, 2024, in Tunisia. - Based on the results and lessons learned from the project's final report, which will be completed by the October 2024 after the conclusion of the last two workshops in Latin America and French-speaking African countries, a new proposal for the project's second phase will be prepared drawing from the recommendations of the project's first phase.
9. Identify opportunities for NOU synergies with other MEAs through participation in UNEP Law Division's Pilot project to enhance cooperation between Montreal Protocol, the Basel, Stockholm and Rotterdam Conventions and Minamata Convention at the country level on areas of common interest and other related research projects.	Report(s) produced	7	- Report developed about this activity. One global webinar and two regional webinars were organised in December 2023 as well as a side-event in UNEA in March 2024. - Green Customs session delivered by Armenian GCI trainer during ECA network and enforcement meeting in Tirana, Albania 4.24 (ECA) - Collaborate with GCI of UNEP Law Division to support Indonesia on the planning of Green Customs Training Workshop which include different MEAs such as Montreal Protocol, the Basel, Stockholm and Rotterdam Conventions and Minamata Convention. (SEA)
Outcomes	Outputs		
OUTCOME 2 Article 5 countries report accurate and timely data	- The status of Article 7 and Country Programme data submissions is regularly monitored, and follow-up support is offered to countries. - Any NOU requesting support with collecting, reviewing and reporting accurate Article 7 and/or Country Programme data is assisted to do so, so that they report by (or in advance of) the reporting deadlines. - All NOUs are assisted in understanding the revised data reporting formats and the new data reporting obligations related to the Kigali Amendment, and to use the online reporting systems. - All NOUs are made aware of best practices and methodologies for data collection, cross-checking and reporting requirements for all controlled substances. - All NOUs are offered information or assistance to establish their HFC baselines and the starting points for sustained aggregate reductions in HFC consumption.		
2024 Activities	Indicators	Number	Progress

10. Regularly monitor the status of Article 7 and Country Programme data to identify and avoid late submissions or risks of noncompliance and provide follow-up support to countries as needed.	Status report on data submission. Type of support provided	147	• Regularly monitored the submission status of all countries for both Article 7 and Country Programme data. • Maintained close contact with the Multilateral Fund Secretariat and the Ozone Secretariat about the status of data submissions for UNEP-assisted countries. • Alert message sent to countries as a reminder April for CP data and August for Art 7 data (AF-F) • Reminded ECA countries of data submission deadlines, reviewed submitted data, updated tracker of HFC licensing systems (ECA) • Regularly communicated to NOOs about key data reporting deadlines throughout the period, monitored data submissions and provided support when necessary, including sending reminders. (AF-A) • Regularly monitored submission of CP and A7 data for all Countries. Reminders sent including data submission files and guidance (CAR)
11. Assist any NOU requesting support with collecting, reviewing and/or reporting accurate Article 7 and/or Country Programme data.	Number of countries supported. Type of support provide	75	• Assisted NOOs with review of data and support for improving data quality prior to submission for those countries that requested such support. Liaised with NOOs for submitting their data by the respective data reporting deadline. In cases where data was not reported timely, closely worked with the NOO to report the data at the earliest possible date and provided required support for addressing comments on data submission including need for adjustments if required. • Provided support to all Article 5 countries on data reporting procedures, approaches, and issues as part of the Network and thematic meetings. • Serbia requested clarification of submission deadline for Article 7 data (ECA) • Assisted 5 countries with understanding reporting formats and accessing ORS (Jordan, Iraq, Qatar, Saudi Arabia and Syria) during the Training for New NOO and NOAs. Provided additional support to Syria NOU with further understanding the CP form and clarifying data submitted; Helped 12 WA during network meetings with understanding the new reporting formats of CP and access to ORS online systems for Article 7 (WA) • Informed Indonesia and Thailand on deadline for reporting HFC during the baseline year after ratification of the Kigali Amendment to ensure compliance with the Kigali Amendment obligations; Provided support to Brunei and Timor Leste to collect HFC data to be available for reporting HFC consumption during the baseline year; Reviewed the consistency of data obtained from data collection and data in the draft Country Programme and Article 7 data and provided advised to rectify the data difference if identified (SEA) • Assisted countries in reviewing the draft Country Programme and Article 7 data before submission to the MLFS and Ozone Secretariat respectively as per request of the countries.(SEA and PIC) • Specifically reviewed: Mongolia, Sri Lanka, Nepal, Bhutan, Maldives. Assisted RO Korea on A7 data issues. (SA) • Targeted assistance provided to Central African Republic (AF-F) • Assisted 12 countries (Angola, Botswana, Ethiopia, Eritrea, Gambia, Namibia, Sierra Leone, Rwanda, Zambia, South Sudan, Mozambique, Uganda) with review of data and support for improving data quality prior to submission (AF-A) • Provided assistance to NOOs on data collection, reviewing and reporting as part of the IS implementation, and as part of the Network Meeting of Ozone Officers of Latin America. (LA)

			Assistance provided to all 14 countries with submission of 2022 A7 data and 2023 CP data. Revised Country Reports to ensure completeness, inclusion of "zeros" etc; Assisted 7 countries with understanding reporting formats and accessing ORS (GRN, BAR, SLU, SVG, BHA, JAM, TRI) through the pilot training for advanced NOO. (CAR)
12. Regularly remind and follow up with all NOUs about data reporting deadlines	Number and type of support provided	163	- Regular communication with NOUs about data submission; review of draft reports and provision of required clarifications and comments to ensure complete and correct submissions. - Reminders were sent to NOUs about Article 7 and CP data reporting deadlines. - Followed up with countries to correct minor errors in CP data. - CAP provided support in cross-checking data before submission and ensuring data is reported in the right format.
13. Assist all NOUs to understand the revised data reporting formats and the data reporting obligations related to the Kigali Amendment, and to use the online reporting systems.	Type of support provided	120	- Assisted 5 countries with understanding reporting formats and accessing ORS (Jordan, Iraq, Qatar, Saudi Arabia and Syria) during the Training for New NOO and NOAs. Provided additional support to Syria NOU with further understanding the CP form and clarifying data submitted; Helped WA during network meetings with understanding the new reporting formats and requirements under the KA. (WA) - Provided support to Lao PDR and TimorLeste on the reporting of Article 7 through the ORS system; Provided orientation to Thailand to understand the reporting format of Country Programme and Article 7 data (SEA) - Provided support to Kiribati, Narau, Niue and Vanuatu on the reporting of Article 7 through the ORS system (PIC) - Helped 10 SA network meeting attendees with understanding the new reporting formats of CP and access to ORS online systems for Article 7 and HFC baseline data during the Joint SA and SEA network meetings in Nov 2023 and May 2024 (except Afghanistan and DPR Korea who did not attend the meetings) (SA) - Burundi, Cameroon, Central Africa Republic, Comoros, Congo DRC, Congo PRC, Côte d'Ivoire, Guinea Bissau, Madagascar, Mali, Mauritania, Senegal, Togo attended presentation on the revised data reporting formats and the data reporting obligations related to the Kigali Amendment, and to use the online reporting systems. (AF-F) - Demonstrated in the network meeting reporting obligations related to the Kigali Amendment. (AF-A) - Provided assistance to all Article 5 countries on the revised data reporting formats and the data related obligations related to Kigali as part of the Network meeting and the support from the Ozone and Multilateral Fund Secretariats. (LA) - All 14 Countries provided with Assistance with the revised reporting formats via email and bilateral discussions; During presentation by the OS, the matter was also raised at the Network Meeting held Jun 2024; During the Pilot Training for Advanced NOOs, training on the use of the ORS and reporting to the MLFS and their upcoming revised online platform was included. 7 NOOs received this training. (CAR)

14. Make all NOUs aware of best practices and methodologies for data collection, cross-checking and reporting requirements for all controlled substances and encourage the institutionalization those processes.	Type of support provided	72	• Provided assistance to NOOs on data collection and reconciliation of data from different sources prior to reporting. • Shared best practices and methodologies for data collection and reconciliation of data from different sources prior to reporting. • Dedicated sufficient time during missions as well as at the regional network meetings to cover issues related to data collection and reconciliation. • Encouraged countries to establish mandatory reporting for importers, wholesalers, and equipment operators (logbooks). (WA) • Encouraged the NOU of Brunei, Cambodia, Lao PDR and Timor Leste to obtain data from different sources using the template developed by UNEP; Conducted analysis with Lao PDR and Timor Leste on reconciliation of import/export statistic for reporting Country Programme and Article 7 for 2023. (SEA) • Encouraged the NOU of 14 PICs to obtain data from different sources using the template developed by UNEP; Conducted analysis with 13 countries including Cook Islands, Fiji, Kiribati, Marshall Islands, FSM, Nauru, Niue, Palau, Samoa, Solomon Islands, Tonga, Tuvalu and Vanuatu on reconciliation of import/export statistic for reporting Country Programme and Article 7 for 2023. (PIC) • Topic regularly discussed during network meetings and during the Advanced NOO training pilot. SA also developed country profiles to assist NOUs in better understanding how their data is publicly available (via OzSec website) and includes other pertinent information on their consumption and compliance obligations. (SA) • Devoted adequate time during missions to countries and regional meetings to address issues related to data collection and analysis (AF-A) • Increased awareness of NOOs on best practices and methodologies for data collection, cross-checking, and reporting as part of the IS implementation, and as part of the Network Meeting of Ozone Officers of Latin America. (LA) • Assistance provided with guidance and best practices for data collection and cross-checking of data. Dominica received special assistance during mission held Jun 2024. (CAR)
15. Encourage all NOUs to identify and analyse differences between their country's trade data and those reported by other countries with whom they trade and to resolve any inconsistencies with their counterparts.	Type of support provided	85	• Supported countries in identifying and analysing differences in their trade data and those reported by other countries with whom they trade, in cooperation with the Ozone Secretariat. • Reviewed all data shared by the Ozone Secretariat and encouraged NOUs to analyse differences when exporting countries reported more exports and importing countries reported imports (risk of illegal trade) (ECA) • Presented the summary of data difference for both HCFCs and HFCs between importing and exporting parties based on data compiled by the Ozone Secretariat to SEA network during the Joint network meetings in May 2024. (SEA) • Presented the summary of data difference for both HCFCs and HFCs between importing and exporting parties based on data compiled by the Ozone Secretariat to PIC network during the Joint network meetings in Jun 2024; Included a session on data monitoring to discuss with the Customs how to ensure accurate data collection and how to reconcile trade data in the Twinning NOO-Customs Workshop on ODS/HFC

			Trade Control and Reporting in Samoa in Sep 2023 (PIC) - Reviewed Data discrepancy information supplied by the Ozone Secretariat and helped each SA network country understand their exports/import data. Held special sessions at network meeting on iPIC. (SA) - Encouraged all NOUs to identify and analyze discrepancies between their country's trade data and those reported by their trading partners, and to resolve any inconsistencies with their counterparts. (AF-A) - Assisted NOOs to identify and analyze the differences between the reported data and the data of exports reported by other countries on an ad-hoc basis, as part of the IS implementation, and during the Network Meeting with the support of the Ozone Secretariat. (LA) - Supported all countries with analysing any differences in trade data in cooperation with the OS. Support provided in clarifying substances such as R-134 vs R-134a (CAR)
16. Offer all NOUs information or assistance to establish their HFC baselines and the starting points for sustained aggregate reductions in HFC consumption.	Type of support provided	65	- Assisted Armenia to defend their request of HFC baseline revision during ImpCom - additional information requested (ECA) - Provided assistance on HFC data collection and understanding baselines through network meetings, missions to countries and dedicated consultations with specific NOOs; Provided assistance to NOOs to calculate their HFC consumption baselines in CO2 equivalence; Provided guidance on the establishment of HFC quota systems; Shared concise information on Kigali Amendment obligations and the calculation of HFC baselines (WA) - Provided support and explained Brunei Darussalam, Cambodia, Lao PDR and Thailand to calculate HFC baseline consumption based on 2020-2022 Article 7 data or the HFC consumption that has not yet been officially reported to the Ozone Secretariat; Presented an analysis on the portion of 2020-2022 HFC average and 65% of HCFC baseline consumption that contribute to HFC baseline consumption in the SEA Network meeting in China in May 2024 to enable countries to understand situation of their HFC consumption against the official obligations; Provided ad hoc support to Cambodia and Lao PDR on revision of HFC during the baseline year in Article 7 (SEA) - Provided support and explained to 13 PICs including Cook Islands, Fiji, Kiribati, Marshall Islands, FSM, Nauru, Niue, Palau, Samoa, Solomon Islands, Tonga, Tuvalu and Vanuatu how to calculate HFC baseline consumption based on 2020-2022 Article 7 data; Presented an analysis on the portion of 2020-2022 HFC average and 65% of HCFC baseline consumption that contribute to HFC baseline consumption in the PIC Network meeting in Palau in Jun 2024 to enable countries to understand situation of their HFC consumption against the official obligations; Provided support to 12 PIC to understand HFC consumption during the baseline year from the KIP survey and arranged a session with support of the Ozone Secretariat to explain the PICs on procedures in changing HFC baseline consumption through the Implementation Committee (PIC) - Held special sessions during Network/Thematic Meetings (Nov 2023, Apr 2024, and May 2024) to explain the differences between baseline and starting point. (SA) - Assisted two countries (Egypt and Kenya) to ratify the Kigali Amendment. Provided assistance to NOOs to calculate their HFC consumption baselines in CO2 equivalent (AF-A) - Assistance provided to 5 countries to establish their HFC baselines and the starting points for sustained aggregate reductions in HFC consumption during the KIP preparation process. (LA)

			Support provided to all counties with determining the best approach to establish their HFC baselines. Special sessions held at the 2023 and 2024 Network Meeting which were attended by the OS. IAs also provided their perspective and possible approaches including HFC baseline calculators. (CAR)
Outcomes	Outputs		
OUTCOME 3 Effective legal, regulatory and policy frameworks are in place and enforced	- All NOUs are informed about options, including preventative approaches involving awareness and education, to enhance their national Montreal Protocol monitoring, reporting, verification and enforcement (MRVE) systems. - All NOUs are assisted to operate and enhance their HCFC licensing and quota systems as per Montreal Protocol and Multilateral Fund targets. - All NOUs of Article 5 Parties to the Kigali Amendment are assisted to develop, operationalize and enhance their HFC licensing and quota systems. - All NOUs in countries that have not yet ratified the Kigali Amendment are encouraged to consider introducing voluntary licensing systems. - All NOUs are made aware of the benefits of, and approaches for, electronic licensing systems for controlling HCFCs and HFCs. - All NOUs are informed about existing HCFC and HFC legislation in Article 5 and non-Article 5 countries and offered assistance with developing/enhancing their own. - All NOUs participating in the informal Prior Informed Consent (iPIC) mechanism use that system to support enforcement of their licensing and quota systems, more countries are encouraged to join, and the system is modified to reflect emerging needs. - All NOUs are provided with information and assistance to identify/establish policies or regulations to regulate RAC/MAC servicing sector. - All NOUs in Article 5 countries that have not yet ratified the Kigali Amendment are assisted to ratify through support provided by CAP in collaboration with the Ozone Secretariat.		
2024 Activities	Indicators	Number	Progress
17. Inform all NOUs about options, including best practices and preventative approaches involving awareness and education, to enhance their national Montreal Protocol monitoring, reporting, verification and enforcement (MRVE) systems.	Type of support provided	76	- Facilitated exchange of experiences between countries on, inter alia: implementation of HCFC quota and licensing systems, allocation of HFC quota, verification of data, legal framework for the Kigali Amendment, data discrepancies among importing/exporting countries, establishing the HS Code 2022, bilateral exchanges on trade statistics and use of iPIC mechanism, HCFC verification, monitoring, reporting and verification (MRVE) mechanisms, advanced and electronic licensing system, establishment/implementation of HFC licensing systems, electronic databases and equipment logbooks. - The training of new Ozone Officers/Assistants of 5 countries in WA included a specific module on monitoring, reporting, verification, and enforcement (MRVE); Organized a dedicated session on MRVE as well as data reconciliation and reporting to discuss principles and share best practices and methodologies during the network meetings in 2023 and 2024. (WA) - Discussed with the NOU and Customs Authority of Brunei, Lao PDR, Timor Leste and Vietnam on adoption of integrated approach in the MRVE of licensing system during county mission. (SEA) - Organized a 3-day Twinning Workshop for Pacific Island Countries Ozone – Customs Officers on ODS/HFC Trade Control and Reporting, Apia, Samoa, in September 2023, which a theme on "MRVE of HCFC/HFC licensing system through integrated approaches" in collaboration with Australia and Oceania Customs Organization (OCO); In collaboration with the Oceania Customs Organization, UNEP launched the Standard Operating Procedures (SOP) for enforcement of licensing system under the Montreal Protocol, which starts from the beginning until the end of enforcement chain for adoption by 14 PICs at the national level. (PIC) - Facilitated exchange of experiences on electronic licensing systems as part of network meetings. Countries encouraged to develop electronic quota and licensing system. (AF-F, AF-A) - Countries are informed through the exchange of experiences in the network meetings (LA, ECA)

			Facilitated exchange of experienced on e-LS for HCFCs and HFCs to support monitoring, reporting and verification during the network meetings of Nov 2023 and Jun 2024 (CAR)
18. Strengthen the capacity of all NOUs to operate and enforce their HCFC licensing and quota systems as per Montreal Protocol and Multilateral Fund targets.	Type of support provided	60	- Assisted countries with UNEP-assisted verification reports to use the recommendations to strengthen their HCFC licensing and quota systems. - UNEP technical note on HFC quota systems 2023 - disseminated English and Russian versions; ECA 32 online meeting on revised EU F-gas regulation and inventory of banks in Nov 23 (ECA) - Supported WA countries, as part of their IS (6), HPMP (7) and KIP (1) projects to review their existing regulations for ODS quota and licensing system and to identify strengths/weaknesses and share best practices; Supported countries requesting assistance to review their revised regulations for ODS quota and licensing system as well as data monitoring and reporting mechanisms. (WA) - Discussed with Brunei Darussalam, Lao PDR and Timor Leste and reviewed the operation and enforcement of HCFC licensing and quota system during the country mission. (SEA) - Discussed during all network meetings and emphasized best practices; Assisted countries with UNEP-assisted verification reports to use the recommendations to strengthen their HCFC licensing and quota systems (Mongolia, Nepal, Bhutan). (SA) - Supported 10 countries to review their existing regulations for ODS and HFC quota and licensing system as well as data monitoring and reporting mechanisms. Shared information on licensing and quota systems during network meeting sessions and during missions. (AF-A) - The capacity of NOUs in the operation and enforcement of their HCFC licensing and quota systems was strengthened, as part of their IS (8), and HPMP (11) projects, as per Montreal protocol targets. (LA) - Assisted St. Kitts and Nevis with implementation of verification report recommendations to strengthen their HCFC licensing and quota system. Report submitted to ExCom-93; Supported countries, as part of their IS and HPMP projects, to assess their existing regulations on HCFC LQS and conduct regulatory/legislative updates to conform with current best practices. (CAR)
19. Assist all NOUs of Article 5 Parties to the Kigali Amendment to develop, adjust and enforce their HFC licensing and quota systems.	Type of support provided	114	- Continuously monitored the status of establishment of HFC licensing system for all Article 5 countries that ratified the Kigali Amendment. - Encouraged all countries to establish a quota and licensing system for HFCs by the required deadline and to report the same to the Ozone Secretariat - Georgia and Moldova established their HFC licensing systems (ECA) - Supported Brunei Darussalam, Cambodia, Lao PDR and Thailand to establish HFC quota system using tonnes CO2 equivalent concept and develop data tracking table to monitor HFC quota utilization in tonnes CO2 equivalent based on the import in MT; Participated in in-person meeting with importer of HFC in Timor Leste to explain principle of HFC control and quota management under the Kigali Amendment for establishment of HFC quota; Included a session on operational experiences on HFC licensing and quota system in the Network Meeting in Phuket, Thailand in November 2023 and in Guangzhou, China in May 2014. (SEA) - Supported 11 PICs comprising Cook Islands, Fiji, Kiribati, Marshall Islands, FSM, Nauru, Niue, Solomon Islands, Tonga, Tuvalu and Vanuatu to establish HFC quota system using tonnes CO2 equivalent concept

			and develop data tracking table to monitor HFC quota utilization in tonnes CO2 equivalent based on the import in MT; Included a session on operational experiences on HFC licensing and quota system in the Network Meeting in Samoa in September 2023 and in Palau in June 2014. (PIC) - Discussed during all network meetings and emphasized best practices; Assisted countries with UNEP-assisted KIP preparation to better understand gaps and lessons learned from HCFC quota to strengthen their HFC licensing and quota systems (Mongolia, Bhutan, Maldives, Bangladesh, Sri Lanka). Provided technical advice to RO Korea on HFC quota and licensing system. (SA) - Continuously monitored the establishment of HFC licensing systems in countries that ratified the Kigali Amendment and encouraged them to report their progress to the Ozone Secretariat. (AF-A) - All Latin American countries established HFC licensing systems and reported to the Ozone Secretariat. Continuously monitored the status of the establishment of the HFC quota system; encourage 3 countries to pass quota related regulations; Licensing and Quota Systems is a topic of the Network Meeting of Ozone Officers of Latin America. (LA) - Monitored and provided support to KA Parties to review and enforce their LQ systems. Provided guidance to Belize and The Bahamas to report on the existence of the HFC Licensing and Quota Systems to the OS. (CAR)
20. Encourage all NOUs in countries that have not yet ratified the Kigali Amendment to consider introducing voluntary licensing and quota systems.	Number of countries that introduced voluntary HFC licensing system	5	Actively monitored the status of countries' HFC Licensing Systems to promptly address any instances of potential or actual non-compliance, this is to ensure that timely assistance and support are provided to Article 5 countries. Currently, a total of 106 Article 5 countries have established and operational HFC Licensing Systems. And three Article 5 countries that have not ratified the Kigali Amendment but have established HFC Licensing Systems.
21. Make all NOUs aware of the benefits and approaches for electronic licensing systems for controlling HCFCs and HFCs	Type of support provided	8	- Helped WA during network meetings with understanding the and appreciating the additional benefits of the e-LS and facilitated exchange of experiences between countries on establishment and operation of E-L/Q systems. (WA) - Included a session on the use of electronic licensing system and database in controlling HCFC/HFC in the Network Meeting in Guangzhou, China in May 2014. (SEA) - Included a session on the use of electronic licensing system and database (National Single Window) in controlling HCFC/HFC in the Twinning Workshop for Pacific Island Countries Ozone – Customs Officers on ODS/HFC Trade Control and Reporting, Apia, Samoa, in September 2023 (PIC) - Finalized the booklet on National Single Window system for HCFC/HFC control (ROAP) - Supporting Mongolia in the development of electronic licensing system (SA) - Encouraged all NOUs to establish electronic licensing systems for controlling HCFCs and HFC during network meetings and missions to countries (AF-A) - NOUs are informed of the benefits of the electronic licensing systems as part of their capacity building and awareness raising components of their HPMPs (LA) - Countries who have not yet transitioned into an eLS encouraged to do so through bilateral meetings, network meetings. (CAR)
22. Support all NOUs participating in the	Number of countries	131	iPIC consultations were continuously monitored and recorded. In 2023 a total of 3,069 queries were

informal Prior Informed Consent (iPIC) mechanism to use that system to support enforcement of their licensing and quota systems, and encourage more countries to join.	participating in iPIC. Statistics of iPIC exchanges		recorded using the iPIC mechanism. From 01 January - 25 April 2024, 1150 queries have been recorded so far. • UNEP is continuously encouraging countries to use iPIC mechanism to monitor their trade in MP controlled substances and prevent illegal and unwanted trade. The total of 131 countries has an active iPIC sheet – 104 countries plus the European Commission, covering 27 EU member states. • Held special session on iPIC at Joint SA & SEA Network Meetings in November 2023 and May 2024. Executed survey on iPIC in November 2023. Encouraged regular update of iPIC contacts. Held bilateral with China to discuss better facilitation of iPIC with UNEP system. (SA)
23. Inform all NOUs about existing HCFC and HFC legislation in Article 5 and non-Article 5 countries (including the MAC sector) and offer assistance for developing/enhancing their own.	Type of support provided. Number of NOUs assisted with policy development/update	97	• ECA 32 online meeting on revised EU F-gas regulation and inventory of banks (ECA) • Regularly monitored the status of Montreal Protocol regulations, measures and policies through network meetings and during country visits, and gaps identified, and support provided for updated; Promoted national and regional HFC legislative and policy options; Monitored implementation progress of the legislation and regulation in for all countries in WA. (WA) • Reviewed the existing regulatory frameworks for controlling consumption of HCFC/HFC and the manufacture/import of HCFC/HFC based equipment as well as energy efficiency in Cambodia, Lao PDR, Timor Leste and Vietnam and provided support to country to identify regulatory measures to support HCFC phase-out/HFC phase-down; Supported Timor Leste in the preparation of presentation to present to the Council of Minister on amendment of existing regulations to include HFC control and banning import of HCFC-based equipment; Arranged a session during the Network Meeting in Guangzhou, China in May 2024 to present the summary of regulations on controlling/banning the manufacture and import of RAC equipment and discussion on intervention required to support HCFC phase-out/HFC phase-down. (SEA) • Reviewed the existing regulatory frameworks for controlling consumption of HCFC/HFC and the manufacture/import of HCFC/HFC based equipment as well as energy efficiency in 13 PICs including Cook Islands, Fiji, Kiribati, Marshall Islands, FSM, Nauru, Niue, Palau, Samoa, Solomon Islands, Tonga, Tuvalu and Vanuatu and provided support to country to identify regulatory measures to support HCFC phase-out/HFC phase-down; Arranged a session during the Network Meeting in Guangzhou, China in May 2024 to present the summary of regulations on controlling/banning the manufacture and import of RAC equipment and discussion on intervention required to support HCFC phase-out/HFC phase-down; Organized a presentation on HCFC phase-out in PNG by 1 January 2025 and discussed the way forward for PNG to comply with agreement with the ExCom under the HPMP (PIC) • Discussed during all network/thematic meetings held. Developed Country profiles with legislative information. Monitored implementation progress of the legislation and regulation in Mongolia - update of licensing and SOP (SA) • Regularly updated all NOUs through emails, network meetings and missions about existing HCFC and HFC legislation including specific regulations in the MAC sector. (AF-A) • NOUs received capacity-building and technical assistance support in the development/enhancement of the HCFC and HFC legislation as part of their ISs, HPMPs and KIPs. (LA)
24. Assist all NOUs in Article 5 countries that have not yet ratified the Kigali Amendment	Number of countries assisted that ratified the	20	• Regularly monitored status of Kigali Amendment ratification in all network countries. • Offered support to interested countries in collaboration with the Ozone Secretariat.

to ratify through support provided by CAP in collaboration with the Ozone Secretariat.	Kigali Amendment. Type of support provided		- Encouraged all remaining Article 5 countries to ratify the Kigali Amendment through country visits, Network meetings and implementation of Enabling Activity projects. - Moldova ratified in Sep 23 (ECA) 5 WA countries ratified the KA so far and the rest will join during 2024. (WA) - Regularly follow-up with Brunei Darussalam, Thailand and Timor Leste on the progress of ratification of the Kigali Amendment. Provided assistance as needed by country to prepare the endorsement package (SEA) - Held bilateral meetings with Nepal, OzonAction, and Ozone Secretariat to encourage ratification and as a result of the meeting, OzSec sent a letter to Nepal. (SA) - During the training for new ozone officers held in Mauritania, CAP and Mali assisted Mauritania to expediate the ratification process of the Kigali Amendment. (AF-F) - Provided support to 5 countries (Egypt, Kenya, Libya, South Sudan and Sudan). Two countries (Egypt and Kenya) ratified the amendment on 22 August 2023 and 22 September 2023 respectively. (AF-A) - Support was provided to Guatemala in the ratification of the KA in the form of information and missions to the country to raise awareness among policymakers about the benefits of ratification. (LA) - OS delivered presentations on ratification at the Nov 2023 and June 2024 Network Meetings. (CAR)
Outcomes	Outputs		
OUTCOME 4 Imports and exports are controlled, and illegal trade is reduced/prevented	- All NOUs are encouraged to update, monitor or enforce their national regulations and policies to facilitate and monitor legal trade in controlled substances and to combat illegal trade through an integrated approach. - All NOUs are provided with tools developed by UNEP and its partners for use in the delivery of their national Customs training, and, as appropriate, training of environmental inspectors and other law enforcement officers. - All NOUs have increased awareness and understanding about critical Montreal Protocol Customs issues, including best practices, innovative approaches and ways to combat illegal trade in controlled substances. - All NOUs are made aware of innovative methods that support enforcement of national licensing systems, both at and beyond the Customs check point in domestic markets. - All NOUs are encouraged to interact more closely with Customs agencies to promote regional and international action to combat illegal trade. - Interested national Customs training academies are encouraged and assisted to adopt the UNEP-WCO Customs Training Manual and e-learning into their national curricula. - Interested regional and sub-regional organizations are encouraged to develop regional and/or sub-regional initiatives or policies to facilitate and monitor legal HCFC trade and to combat illegal trade. - All NOUs are assisted to work with Customs to promote adoption of the 2022 Harmonized System codes and/or subcodes or otherwise adopt regional codes or other interim measures for monitoring HFC imports and exports.		
2024 Activities	Indicators	Number	Progress
25. Assist all NOUs requesting support to update, monitor or enforce their national regulations and policies to facilitate and monitor legal trade in controlled substances and to combat illegal trade through an integrated approach.	Number of NOUs supported. Type of support provided.	107	- ECA network and enforcement meeting in Tirana, Albania, Apr 2024; UNEP technical note on HFC quota systems 2023 English; OzonAction, Ozone Secretariat, WCO article on “Joining forces with Customs and Enforcement Officers for Safeguarding the Montreal Protocol” on Ozone Secretariat enforcement workshop, WCO 2022 HS codes for substances, blends and equipment, and OzonAction enforcement initiatives (ECA) - Support provided to all WA countries through the Network meeting and country visits; Informed and

			encouraged NOUs about the importance of involving other enforcement authorities through the HPMP and EA's implementation; Encouraged all WA countries to conduct domestic market inspection together with custom officers; Supported network countries in operating the iPIC system and disseminated awareness materials. (WA) • Discussed with the NOU and Customs Authority of Brunei, Lao PDR, Timor Leste and Vietnam on adoption of integrated approach in the MRVE of licensing system during county mission; South-south Cooperation with Thailand - Study Visit of Lao PDR and Vietnam to strengthen the enforcement of licensing system at the check-point and beyond the customs check point in September 2024 (SEA) • Organized a 3-day Twinning Workshop for Pacific Island Countries Ozone – Customs Officers on ODS/HFC Trade Control and Reporting, Apia, Samoa, in September 2023, which a theme on "MRVE of HCFC/HFC licensing system through integrated approaches" in collaboration with Australia and Oceania Customs Organization (OCO); In collaboration with the Oceania Customs Organization, UNEP launched the Standard Operating Procedures (SOP) for enforcement of licensing system under the Montreal Protocol, which starts from the beginning until the end of enforcement chain for adoption by 14 PICs at the national level. (PIC) Supported network members in updating their iPIC, Assisted Mongolia on trade issues with China, Regular topic discussed at Network Meetings, Demeter IX (SA) • Encouraged network members in updating their iPIC, provided access to the updated system, and distributed customs awareness materials during network meetings (AF-A) • NOUs received capacity-building and technical assistance support in the monitoring of legal trade and prevention of illegal trade as part of their ISS, HPMPs and KIPs. (LA)
26. Provide all NOUs with tools developed by UNEP and its partners for use in the delivery of their national Customs training, and, as appropriate, training of environmental inspectors and other law enforcement officers.	Number and type of tools provided	64	• Presentation of available enforcement tools during OEWG group side event organized by INECE, Jun 2024 (ECA) • Outreached UNEP customs-related publications, smartphone applications and training materials and tools to all network countries and other relevant stakeholders, at networks meetings, training of NOUs and stakeholders as well as during missions. (WA) • Developed and launched training materials to support the NOU and Customs in the delivery of customs broker/importers to strengthen accurate declaration of HCFC/HFC shipment to enhance MRVE system; Continued to promote and urged enforcement authorities to adopt WhatGas application and Refrigerant Identifier Video. The applications were demonstrated to meeting participants during the workshop/country mission. (SEA and PIC) • Promoted UNEP tools at network/thematic meetings and EE Twinning workshop, Booth display in India ACREX Expo, Presentation during China's Ozone2Climate Technology Roadshow and Industry Roundtable, Presentation to India Delegation to Paris in Jan 2024 during India Study Tour. (SA) • Outreached UNEP customs-related publications, smartphone applications (such as WhatGas Application) and training materials and tools to all network countries and other relevant stakeholders at networks meetings (AF-A) • All tools developed by UNEP and partners shared with Countries on a regular basis. Updated tools shared during Nov 2023 and Jun 2024 Network Meetings. Also shared regularly via email; CAR team developed

			draft factsheet on "Cheat Sheet for Reporting" to be shared with Countries to enhance their reporting obligations (CAR)
27. Increase the awareness and understanding of all NOUs about critical Montreal Protocol Customs issues, including best practices, innovative approaches and ways to combat illegal trade in controlled substances.	Number of sessions on customs issues in the regional network/thematic meetings	62	• Shared information with specific NOOs on ODS seizures, intelligence and legal actions taken against perpetrators. • Outreached information on seizure statistics and iPIC consultations to all NOOs. • Shared best practices through network and thematic meetings and bilateral discussions on prevention of illegal trade, data collection and reconciliation. • Countries are encouraged to make good use of the WCO enforcement tools including the seizure-sharing platform, CEN, and its communication platform, in their daily enforcement work as well as through participating in the Operation Demeter which continued to combat illicit trade of waste and substances controlled by the Montreal Protocol. • ECA network and enforcement meeting in Tirana, Albania, 4.24; OzonAction, Ozone Secretariat, WCO article on "Joining forces with Customs and Enforcement Officers for Safeguarding the Montreal Protocol" on Ozone Secretariat enforcement workshop, WCO 2022 HS codes for substances, blends and equipment, and OzonAction enforcement initiatives (ECA) • South-south Cooperation with Thailand - Study Visit of Lao PDR and Vietnam to strengthen the enforcement of licensing system at the check-point and beyond the customs check point in September 2024 (SEA) • Organized a 3-day Twinning Workshop for Pacific Island Countries Ozone – Customs Officers on ODS/HFC Trade Control and Reporting, Apia, Samoa, in September 2023, which a theme on "MRVE of HCFC/HFC licensing system through integrated approaches" in collaboration with Australia and Oceania Customs Organization (OCO). (PIC) • Provided session on Customs & Enforcement during India Delegation Study Tour, Joint Network Meeting in May 2024: Session on Management of HFCs and ODS (SA) • Information on seizures was shared during network meetings, and strategies to curb them were discussed. (AF-A) • NOUs received capacity-building and awareness raising support in customs-related issues as part of their ISs, HPMPs and KIPs. (LA) • Topic was part of the Pilot training for Advanced NOOs held Jun 2024; Countries encouraged to re-engage with Customs authorities where needed at the June 2024 Network Meeting and update to 2023 HS Codes (CAR)
28. Make all NOUs aware of methods that support enforcement of national licensing systems, both at and beyond the Customs check point in domestic markets.	Number of NOUs assisted. Type of support provided	53	• ECA network and enforcement meeting in Tirana, Albania, Apr 2024 (ECA) • Supported WA during network meetings to have better understanding the best enforcement methods and tools beside the sound operation of their e-LS and facilitated exchange of experiences between countries on best approaches for cooperation with Customs and other national concerned stakeholders for enhanced enforcement of the MP regulations. (WA) • Discussed with the NOU and Customs Authority of Brunei, Lao PDR, Timor Leste and Vietnam on adoption of integrated approach in the MRVE of licensing system during county mission; South-south

			Cooperation with Thailand - Study Visit of Lao PDR and Vietnam to strengthen the enforcement of licensing system at the check-point and beyond the customs check point in September 2024 (SEA) - Organized a 3-day Twinning Workshop for Pacific Island Countries Ozone – Customs Officers on ODS/HFC Trade Control and Reporting, Apia, Samoa, in September 2023, which a theme on "MRVE of HCFC/HFC licensing system through integrated approaches" in collaboration with Australia and Oceania Customs Organization (OCO); In collaboration with the Oceania Customs Organization, UNEP launched the Standard Operating Procedures (SOP) for enforcement of licensing system under the Montreal Protocol, which starts from the beginning until the end of enforcement chain for adoption by 14 PICs at the national level. (PIC) - Shared a video of country experience at network meetings and WCO meetings. (SA) - NOUs received capacity-building and awareness raising support in the enforcement of licensing systems as part of their ISSs, HPMPs and KIPs. (LA)
29. Encourage all NOUs to interact more closely with Customs agencies to promote regional and international action to combat illegal trade.	Type of support provided	59	- ECA network and enforcement meeting in Tirana, Albania, Apr 2024, OzonAction, Ozone Secretariat, WCO article on “Joining forces with Customs and Enforcement Officers for Safeguarding the Montreal Protocol” on Ozone Secretariat enforcement workshop, WCO 2022 HS codes for substances, blends and equipment, and OzonAction enforcement initiatives (ECA) - Encouraged countries to conduct border dialogues and strengthen cooperation among enforcement officers; Facilitated border dialogue in WA including between Iraq/Syria, and between 6 countries in the GCC subregion. (WA) - Discussed with the NOU and Customs Authority of Brunei, Lao PDR, Timor Leste and Vietnam on adoption of integrated approach in the MRVE of licensing system during county mission; South-south Cooperation with Thailand - Study Visit of Lao PDR and Vietnam to strengthen the enforcement of licensing system at the check-point and beyond the customs check point in September 2024 (SEA) - Organized a 3-day Twinning Workshop for Pacific Island Countries Ozone – Customs Officers on ODS/HFC Trade Control and Reporting, Apia, Samoa, in September 2023, which a theme on "MRVE of HCFC/HFC licensing system through integrated approaches" in collaboration with Australia and Oceania Customs Organization (OCO); In collaboration with the Oceania Customs Organization, UNEP launched the Standard Operating Procedures (SOP) for enforcement of licensing system under the Montreal Protocol, which starts from the beginning until the end of enforcement chain for adoption by 14 PICs at the national level. (PIC) - One NOU-Customs Twinning Workshop & Border Dialogues for 10 Countries of the SADC Region was held from 6-8 September 2023 in Windhoek, Namibia. The workshop was organized to provide NOOs and Customs officers with knowledge on ODS regulations, identification techniques, and the environmental impact of illegal trade. Green Customs Initiative Workshop for Customs Officers is being planned for ECOWAS Countries in September 2024. (AF-A) - NOUs received information and exchanged experiences during the Network meetings to promote regional/international cooperation in the prevention of illegal trade, as well as capacity-building and awareness raising support as part of their ISSs, HPMPs and KIPs. (LA)
30. Encourage and assist interested national	Number of countries	N/A	UNEP-WCO customs online training manual temporarily discontinued (removed from WCO website as

Customs training academies to adopt the UNEP-WCO Customs Training Manual and elearning into their national curricula.	provided with Montreal Protocol Training Manual		software used for the interactive module is outdated and no longer supported by the platform). Update of UNEP Customs Manual is ongoing.
31. Encourage interested regional and sub-regional organizations to develop regional and/or sub-regional initiatives or policies to facilitate and monitor legal HCFC and HFC trade and to combat illegal trade.	Number of specific meetings held (e.g., border dialogues); Type of support provided	33	- ECA network and enforcement meeting in Tirana, Albania, Apr 24; ECA presentation during RILO ECE meeting of NCPs in Warsaw, Poland, Sept 2023; ECA presentation during enforcement side event of INECE at OEWG in Montreal, Canada, Jul 2024 (ECA) - Facilitated the engagement of the Arab league and GCC Secretariat to attend all network and thematic meetings organized in the WA region to raise awareness about MP and ensure their contribution in sound implementation of MP and enforcement of related regulations.(WA) - Organized a 3-day Twinning Workshop for Pacific Island Countries Ozone – Customs Officers on ODS/HFC Trade Control and Reporting, Apia, Samoa, in September 2023, which a theme on "MRVE of HCFC/HFC licensing system through integrated approaches" in collaboration with Australia and Oceania Customs Organization (OCO); In collaboration with the Oceania Customs Organization, UNEP launched the Standard Operating Procedures (SOP) for enforcement of licensing system under the Montreal Protocol, which starts from the beginning until the end of enforcement chain for adoption by 14 PICs at the national level; Worked with OCO to include the Montreal Protocol agenda item in the meeting organized by OCO. (PIC) - Supported countries in the delivery of thematic border dialogue workshops for customs and enforcement officers as part of CAP support for implementation of HPMP (AF-A)
32. Assist all NOUs to work with Customs to promote the adoption of the 2022 Harmonized System codes or otherwise adopt regional codes or other interim measures for monitoring HFC imports and exports.	Number of countries supported. Type of support provided.	72	- ECA study tour of Armenian delegation to waste / disposal plants in Warsaw, Poland, Nov 2023; ECA support to RAC conference in Tirana, Albania, Nov 2023; ECA technology roundtable and exhibition during the KGH congress in Belgrade, Serbia, Dec 2023; OzonAction, Ozone Secretariat, WCO article on "Joining forces with Customs and Enforcement Officers for Safeguarding the Montreal Protocol" on Ozone Secretariat enforcement workshop, WCO 2022 HS codes for substances, blends and equipment, and OzonAction enforcement initiatives (ECA) - Encouraged all countries to update their national HS codes in line with the 2022 HS code and advised to work with customs authority in a timely manner to include individual national subcodes for commonly imported HFCs. (WA) - Supported the NOU of Lao PDR, Timor Leste and Vietnam to collaborate with the Customs Authority in exploring options to assign additional digits as specific HS code for HFCs in their national HS code system. (SEA) - Two meetings were held to discuss the adoption of the 2022 Harmonized System (HS) codes, focusing on specific agenda items to ensure effective implementation (AF-A) - NOUs received information and exchanged experiences during the Network meetings for the adoption of the 2022 HS codes amendment. (LA)
Outcomes	Outputs		
OUTCOME 5 Key stakeholders and the public	All NOUs and specific stakeholders are well-informed about specific high-priority topics through printed, online, and/or audio-visual information products through digital and print media.		

enthusiastically support national compliance programmes	- Interested NOUs are assisted to celebrate World Refrigeration Day (26 June) and World Ozone Day (16 September) at the national level to increase public awareness of, and support for, the Montreal Protocol. - Interested NOUs are assisted with training and development of communications capacities related to the Montreal Protocol. - All NOUs as well as key members of the Montreal Protocol community are kept informed about the activities of UNEP and its partners through outreach activities. - NOUs speaking UN languages other than English are provided with information in their languages. - All NOUs are informed on global communication strategies to support compliance with the Montreal Protocol and Kigali Amendment.		
2024 Activities	Indicators	Number	Progress
33. Prepare and disseminate targeted information, communications and educational materials and services to ensure that NOUs, key stakeholders and the public are well informed about priority topics related to the Montreal Protocol through digital and print media.	Number and type of publications, products, tools and services produced	43	- Completed a publication Guidebook on Gender mainstreaming into implementation of the Montreal Protocol in English. - Completed a publication Sustainable Development Goals and Montreal Protocol, design in 2024. - Developed a guidebook on streamlining national ODS/HFC licensing system in Asia and the Pacific. - Developed the UNEP-AREA Training Manual: Refrigerants Servicing and Best Practices Manual, in cooperation with AREA - Developed a publication 4 Steps: A practical guide to integrate good servicing practices into national technical and vocational education and training system for refrigeration and air conditioning servicing technicians. - Completed a Global Communication Strategy for Montreal Protocol and Kigali Amendment and its execution plan. - Developed a new OzonAction exhibition in Spanish, English and French. - Developed a communication package on gender mainstreaming and Outreach Strategy for the communication materials of gender mainstreaming in OzonAction (guidebook) - Finalized the update and disseminated the Energy Efficiency Literacy E-learning course, targeted at policymakers, business leaders, and community stakeholders in developing countries. This course highlights the benefits of air conditioning and refrigeration, explains the underlying scientific principles, and identifies key factors contributing to maximum energy efficiency. During this reporting period, a total of 129 participants enrolled in both e-learning courses, demonstrating a strong interest and need for knowledge in this area. - Updated and disseminated the UNEP's Refrigerant Management University Course for engineering students, ensuring that it aligns with academic requirements, as a result during this reporting period, the University Course was requested by about 23 universities from Article 5 countries. - Updated and rewrote the OzonAction mobile application's code, utilizing the latest app software to ensure compliance with the security requirements of Google Play and Apple AppStore. These updates enhance the app's functionality and security, making it more reliable and user-friendly for the target audience. - OzonAction, Ozone Secretariat, WCO article on "Joining forces with Customs and Enforcement Officers for Safeguarding the Montreal Protocol" (ECA) - Dissemination and outreached all materials developed for the use of NOUs in addition to translated key products into Arabic. (WA)

			- Assisted Cambodia to carry out the pilot programme of social media outreach to deliver key message under the Montreal Protocol through local influencer. (SEA) - Assisted Fiji to carry out the pilot programme of social media outreach to deliver key message under the Montreal Protocol through local influencer; Provided support to specific countries to prepare information materials to outreach to the target groups such as customs broker outreach material etc. (PIC) - The following was prepared and disseminated in the region: Guidebook on Gender mainstreaming into implementation of the Montreal Protocol translated. Gender Mainstreaming in the Montreal Protocol: Experiences in Latin America and the Caribbean publication and the related poster. Updated NOU training modules in Spanish (Module 9 and 10). Factsheet on Considerations for Establishing National HFC Quota System. Factsheet on setting up and managing logbooks for refrigeration, air-conditioning, heat pump (RACHP) and other types of equipment. Developed and distributed Communications Strategy for Global Compliance with the Montreal Protocol and the Kigali Amendment for 2025-2030. Contributed to the development of the Communication Strategy during the communication expert meeting in January 2024 in Panama. Mini campaign for International Women's Day on 8 March 2024 highlighted two Latin American women's contribution in the Montreal Protocol and were distributed in OzonAction website and UNEP Spanish and Latin American social media platforms. Develop a communication package on gender mainstreaming, and Outreach Strategy for the communication materials of gender mainstreaming in OzonAction (guidebook) (LA) - All information fact sheet and training courses shared disseminated to NOOs; 1 Pilot Request Sheet in cooperation with ASHRAE developed with Grenada (CAR)
34. Promote public support for the Montreal Protocol at the regional level through awareness activities agreed by the Regional Network members.	Number and description of regional awareness activities	84	- Organised two webinars on communications and inclusive language for Latin America. Developed OzonAction website in Spanish. Developed OzonAction Bulletin in Spanish. Wrote 13 info notes for OzonAction website from Latin America. - ECA technology roundtable and exhibition during the KGH congress in Belgrade, Serbia, Dec 2023; ECA presentation during RILO ECE meeting of NCPs in Warsaw, Poland, Sep 2023; ECA presentation during enforcement side event of INECE at OEWG in Montreal, Canada, Jul 2024; OzonAction, Ozone Secretariat, WCO article on "Joining forces with Customs and Enforcement Officers for Safeguarding the Montreal Protocol"; ECA online ceremony for the award for customs and enforcement officers, Mar 2024 (ECA) - Liaised with key regional organizations such as the League of Arab States and The GCC Secretariat to attend WA thematic and network meetings for wider awareness about MP and support of related programs; Engaging with key regional RAC associations (EUROVENT) for better communication/engagement with RAC manufacturers and technology providers. (WA) - Thematic Workshop to Enhance Awareness and Communication under the Montreal Protocol, Phuket, Thailand in November 2023 (SA-SEA) - Outreach of OzonAction awareness materials in during the Regional network meeting and 2 thematic meetings for Anglophone Africa (AF-A) - UNEP to participate in Antigua and Barbuda WOD 2024 activities during the Country Mission focusing on development of the HPMP II in Sept 2024 (CAR)

35. Outreach Montreal Protocol issues, including gender mainstreaming and SDG linkages, at key international, regional, and national forums including those related to Montreal Protocol and climate.	Number and description of outreach events conducted	13	- Organised OzonAction exhibition in the Meeting of the Parties, October 2023. - Organised Latin American and Caribbean art exhibition "The Planet Is Your Canvas" in the entrance of UN Building in Nairobi. - Organised 4 side-events in COP-28 in Montreal Protocol Pavilion, Dubai, UAE (Roundtable on Addressing the Heat: Innovations and Challenges in Cooling Technologies for HAT; Empowering Women in the Cooling Sector: The Role of the International Network of Women in Cooling (INWIC); The Need for Certification: Elevating Standards; from products to people; Energy Efficiency in RAC Servicing: A Critical Component for MEPS Success) - ECA presentation during RILO ECE meeting of NCPs in Warsaw, Poland, Sep 2023; ECA presentation during enforcement side event of INECE at OEWG in Montreal, Canada, Jul 2024; OzonAction, Ozone Secretariat, WCO article on "Joining forces with Customs and Enforcement Officers for Safeguarding the Montreal Protocol"; Session on communication, information, awareness and outreach (CIAO) strategy during ECA meeting in Tirana, Albania, Apr 2024; ECA online ceremony for the award for customs and enforcement officers, Mar 2024 (ECA) - Organised a dedicated session during the PIC Network Meeting in Apia, Samoa in September 2023 on integration of gender mainstreaming into the implementation of the Montreal Protocol; Organized a presentation by Palau's new Climate Change Policy to demonstrate the linkage of Climate Change Policy with the Montreal Protocol during the PIC Network Meeting in Palau in June 2024 (PIC) - Addressed Montreal Protocol issues in all regional and thematic meetings and missions. Gender mainstreaming was included as an agenda item in all three implemented meetings (AF-A) - Montreal Protocol issues, including gender mainstreaming and SDG linkages featured through presentations made at Network Meeting in Jun 2024 (CAR)
36. Update, maintain and enhance the OzonAction website (www.unep.org/ozonaction) and OzonAction Meeting Portal (www.ozonactionmeetings.org)	Web statistics confirming growth/activity	3	- The OzonAction website underwent updates and enhancements, including the redesign of various web pages and the incorporation of informative infographics, which resulted in maintaining relevant content for users. - The upgrade and migration of the OzonAction Meeting Portal was successfully completed with the integration of new features designed to enhance usability and ensure platform stability, and that have resulted in a more user-friendly experience for all stakeholder users of the OzonAction website. - Prepared the OzonAction Web Performance Report, which included analysis of website analytics to gauge usage patterns and optimize overall performance to ensure that OzonAction's online platforms continue to serve as effective tools, facilitating access to essential information and resources.
37. Update the online OzonAction Knowledge Maps to provide NOUs and other stakeholders with access to key and recent data to support Montreal Protocol implementation.	Web statistics for OzonAction Knowledge Maps. Number and type of updates	3	- Updates were made to and maintenance performed on three key knowledge maps managed by UNEP: - The Multilateral Fund Projects Knowledge Map was updated with new datasets to provide an overview of UNEP's projects in developing countries under the Montreal Protocol's Multilateral Fund, enabling users to explore project data through filtering options and interactive global maps, facilitating analysis at global, regional, and national levels. - Refrigeration, Air-Conditioning and Heat Pumps (RACHP) Associations & Organizations Knowledge Map was updated and maintained to serve as a comprehensive global directory of RACHP associations and

			organizations worldwide, and assisting stakeholders in accessing relevant information about industry bodies and fostering collaborations across sectors. Local Technical & Vocational Education and Training (TVET) Knowledge Map was maintained and updated to provide a global directory of TVET entities and centers, supporting stakeholders in identifying educational and training resources relevant to technical and vocational skills development worldwide.
38. Produce and disseminate the OzoNews e-newsletter on a bi-weekly basis, develop a subscription management system and enhanced functionality.	Number of OzoNews e-newsletter issues produced (both regular and special issues)	22	- Prepared 19 regular issues of OzoNews, plus three special issues, and distributed to a readership of about 1,400 persons interested in the Montreal Protocol, including all NOOs. Three additional regular issues are planned for the period: 30 July - 30 August 2024. - In cooperations with communication unit of the Law Division, completed the migration of OzoNews from MailChimp to MDirector.
39. Produce and disseminate the OzonAction Scoop on topical subjects three times per year.	Number of <i>OzonAction Scoops</i> produced and disseminated	3	Developed and distributed OzonAction Scoop number 6 in the MOP-35. Developed OzonAction Scoop number 7 and 8.
40. Encourage and support national celebrations of World Ozone Day on 16 September, including the development of specific materials.	Number of countries celebrating <i>World Ozone Day</i> . Type of support provided	147	- Encouraged all Article 5 countries to celebrate World Ozone Day on 16th September 2022 to create support amongst the general public for national Montreal Protocol strategies and policies. Many countries produced awareness materials, and organised dedicated events as part of their Institutional Strengthening projects. - Organised regional celebration and a creative learning experience for the winners of the Planet is Your Canvas art contest for Latin America and the Caribbean as well as related exhibition in art museum in Panama. - Countries were reminded of WOD (ECA) - Encouraged and supported national celebrations of World Ozone Day on 16 September, including the organization of a regional celebration of the WOD in the margins of the joint network meeting in Amman in Sept. 2023. (WA) - Presented during the Network Meeting in Guangzhou, China in May 2024 and provided catalogue for countries to select for 2024 World Ozone Day celebration; Worked bilaterally with countries expressing their interest to obtain CAP support in the planning and delivery of World Ozone Day activities. (SEA) - Presented during the Network Meeting in Palau in June 2024 and provided catalogue for countries to select for 2024 World Ozone Day celebration; Worked bilaterally with countries expressing their interest to obtain CAP support in the planning and delivery of World Ozone Day activities; Participated in person the celebration of 2023 World Ozone Day in Fiji and in Nauru (PIC) - Countries provided with a catalogue of proposed awareness activities (SA) - Disseminated awareness materials for the celebration of World Ozone Day on 16 September (AF-A) - Latin American NOUs were encouraged to celebrate the WOD, and report on the activities for uploading in the OzonAction website. Letter to NOUs from the HOB in relation to the celebrations of the WOD was translated and distributed to Latin American countries. Organised regional celebration and creative learning experience for the winners of the Planet is Your Canvas art contest for Latin America and the Caribbean as well as related exhibition in art museum in Panama. (LA)

41. Encourage and support celebrations of World Refrigeration Day (WRD) on 26 June, in cooperation with the WRD Secretariat and refrigeration and air conditioning partners to promote Montreal Protocol objectives to policymakers and the public.	Number of countries celebrating World Refrigeration Day (WRD). Type of support provided	147	- Cooperated with the World Refrigeration Day Secretariat and industry associations worldwide to celebrate World Refrigeration Day, 26 June, under the 2024 campaign theme “Temperature matters” - OzonAction social media post "4 reasons why temperature matters" were prepared and distributed through ROAP social media platforms. - Countries were reminded of WRD (ECA) - Encouraged the celebrations of World Refrigeration Day (WRD) on 26 June to promote Montreal Protocol objectives to policymakers and the public. (WA) - Sent reminder to countries on the materials available to celebrate the World Refrigeration Day. Shared the Infographic to countries to share to stakeholders in the social media platform (SEA and PIC) - Social media visual/post provided to countries for World refrigeration day (SA) - Distributed awareness materials for World Refrigeration Day (WRD) on June 26. (AF-A) - OzonAction social media post "4 reasons why temperature matters" were distributed to the LA Network (LA)
42. Translate prioritised publications and tools into UN languages, depending on regional priorities and available resources.	Number and type of publications and tools translated	18	- Guidebook on Gender mainstreaming into implementation of the Montreal Protocol translated into Spanish, French and Russian. - Translation of Gender Mainstreaming in the Montreal Protocol: Experiences in Latin America and the Caribbean publication and the related poster from English to French. - Translation of updated NOU training modules in French and Spanish (Module 9 and 10). - Translated a factsheet on Considerations for Establishing National HFC Quota System in French, Spanish and Russian. - Translated Factsheet on setting up and managing logbooks for refrigeration, air-conditioning, heat pump (RACHP) and other types of equipment, in French and Spanish. - Translated Every Action Counts: Kigali Amendment booklet into Arabic. - Translated the OzonAction exhibition into English and French. - Translated UNEP ASHRAE refrigerant designation factsheet (Aug 2023) into Russian - Translated UNEP OzonAction Scoop 6 Women in RAC 2023 into Russian; - Translated Customs article into Russian; - Translated U4E Commercial refrigeration model regulations into Russian
43. Produce a Global Communication Strategy to support compliance with the Montreal Protocol and Kigali Amendment.	Communication strategy developed and disseminated to NOUs.	5	Developed and distributed Communications Strategy for Global Compliance with the Montreal Protocol and the Kigali Amendment for 2025-2030. Organised focus groups with all regional teams and global teams to provide input as well as communication expert meeting in January 2024 in Panama. Developed execution plan for global communication strategy and its budget.
Outcomes	Outputs		
OUTCOME 6 Non-ODS, low GWP technology is adopted and used safely, and servicing sector	- All NOUs and the main servicing sector stakeholders are provided with key information needed to make informed choices related to the refrigeration servicing sector, including up-to-date information about alternative refrigerants, technologies, and best and safe servicing practices. - All NOUs are offered the refrigeration servicing sector training products and tools developed by UNEP and its partners, and an increasing number incorporate them into their national Montreal Protocol activities.		

workforce skills are strengthened	• All servicing technicians, master trainers, and other practitioners involved in UNEP-assisted capacity-building activities are assisted to acquire new or updated skills and competencies for minimizing leakages, the sound and safe handling of refrigerants, and maintaining/enhancing energy efficiency of RAC appliances. • Interested national refrigeration training institutes and NOUs are assisted to establish agreements to cooperate on refrigeration servicing sector training and they adopt UNEP-developed training materials. • All NOUs are encouraged and assisted to increase their cooperation with their Technical Vocational Education and Training (TVET) authorities with respect to RAC servicing sector training and certification programs. • All NOUs are provided with information and offered technical and policy assistance for developing national RAC certification programs. • More Article 5 countries consider adopting the Refrigerant Driving License (RDL) global qualification program either to complement their existing certification programme or as an alternative if they do not yet have a certification programme. • More Article 5 countries consider adopting the HFC Outlook Model as a comprehensive tool for modelling and projecting the use of HFCs and alternatives in different consuming sectors and encourage linkage of the model scenarios with the preparation of KIPs. • All NOUs have increased awareness about relevant standards and codes of practice that promote safe handling of flammable, high-pressure and toxic refrigerants, facilitate the introduction of lower-GWP technologies into the market, and promote sound refrigerant management. • All NOUs are encouraged to cooperate with their standards organisations to consider Montreal Protocol issues. • National/regional RAC associations are strengthened, interact regularly with NOUs, and exchange best practices so that they have increased engagement in their countries' national Montreal Protocol activities. • All NOUs are encouraged and assisted to provide increased attention to the food cold chain sector and to strengthen their cooperation with stakeholders in that sector. • All NOUs have increased understanding of the technical and regulatory issues related to HFCs and alternatives used in mobile air conditioning (MAC).		
2024 Activities	Indicators	Number	Progress
44. Provide all NOUs with the key information needed to make informed choices related to the refrigeration servicing sector including up-to-date information about alternative refrigerants and technologies, including not-in-kind technologies	Number and type of information materials developed	15	• The 2024 ASHRAE-UNEP OzonAction Lower-GWP Refrigeration and Air-Conditioning Innovation Awards have been announced, these awards aim to promote innovative design, research, and practices by recognizing individuals who have developed or implemented groundbreaking technological concepts in developing countries to promote the use of lower GWP refrigerants. • Updated and disseminated the New Refrigerants Designations and Safety Classifications that provide an update on ASHRAE standards for refrigerants that introduces the new refrigerants that have been assigned an "R" number over the past few years and introduced into the international market. • UNEP ASHRAE refrigerant designation factsheet (Aug 2023); ClimaCheck training (8h) free-of-charge for interested RAC experts in English / Russian; ECA technology roundtable and exhibition during the KGH congress in Belgrade, Serbia, Dec 2023 (ECA) • Provided all NOUs in WA, through network meetings and country visits, with the key information needed to make informed choices related to the refrigeration servicing sector including up-to-date information about alternative refrigerants and technologies, including not-in-kind technologies (WA) • Organized a specific session on updated low GWP and energy efficiency technology information sessions at the Joint network meeting in Phuket in Thailand in Nov 2023 and the Energy Efficiency Twinning Workshop in Guangzhou, China in May 2024. (SA-SEA) • Held specific technology information sessions at network/thematic meetings including information from TEAP, EE Experts, HAT experts, and experts from academia. Developing Virtual Online Exhibition as part of China's Ozone 2 Climate Roadshow and Roundtable to be able to disseminate information to all NOUs across the globe (SA)

			Factsheet on Considerations for Establishing National HFC Quota System, and Factsheet on setting up and managing logbooks for refrigeration, air-conditioning, heat pump (RACHP) and other types of equipment were distributed to the NOUs; The Refrigerants Designations and Safety Classifications Factsheet updates were distributed to the NOUs (LA)
45. Provide all NOUs with the refrigeration servicing sector training products and tools developed by UNEP and its partners	Type of training products provided	59	- Developed a new series of training and educational videos (Series 3) as part of the OzonAction RAC training videos initiative dedicated to enhancing understanding of the theory and best practices related to the refrigeration cycle to empower stakeholders with comprehensive knowledge, enabling them to implement efficient and sustainable practices in refrigeration and air conditioning effectively. - Developed the UNEP-AREA Training Manual: Refrigerants Servicing and Best Practices Manual, in cooperation with AREA: The manual is designed in a modular format enabling the users to tailor their training programs in accordance with the local needs. The UNEP-AREA Training Manual is available through a special UNEP OzonAction Downloads Portal that gives the opportunity for users to build their own course by selecting the topics and areas they need to cover in the training course they intend to offer. - Provided all NOUs in WA with training products and tools developed by UNEP and its partners for the RAC sector. - Continued to promote the following products in the regional meetings organized by CAP - WhatGas application to understand property (ODP, GWP, safety classification) of refrigerant; RAC training video; UNEP-ASHRAE e-learning course (SEA and PIC) - Shared newly developed materials at the Joint SA & SEA Network Meeting in Guangzhou, China in May 2024. (SA) - The Refrigerant Literacy e-learning Course (ASHRAE) in Spanish was distributed to the LA Network. (LA) - Countries provided with training products developed (CAR)
46. Assist all servicing technicians, master trainers, and other practitioners involved in UNEP-assisted capacity-building activities to acquire new or updated skills and competencies for minimizing leakages, the sound and safe handling of refrigerants, and maintaining/enhancing energy efficiency of RAC appliances.	Type of support provided	15	- ClimaCheck training (8h) free-of-charge for interested RAC experts in English / Russian; ECA technology roundtable and exhibition during the KGH congress in Belgrade, Serbia, Dec 2023; Joint ECA WA twining workshop with NOUs and EE experts in Amman, Jordan, Sep 2023; Shared a USB compilation of some 75 EE related publications with the participants of the Amman meeting (ECA) - Continued to assist all servicing technicians, master trainers, and other practitioners to acquire new or updated skills and competencies for minimizing leakages, the sound and safe handling of refrigerants, and maintaining/enhancing energy efficiency of RAC appliances, through sharing UNEP training materials with WA countries and delivering training in Bahrain, Kuwait, Qatar, Iraq, Saudi Arabia and Syria (WA) - Organize the Training of Assessor on Competency-based Certification for Good Servicing Practices in the Refrigeration and Air Conditioning Servicing sector for South Asia and Southeast Asia (Southeast Asia included Cambodia, Lao PDR, Indonesia, Malaysia and Vietnam) in Kuala Lumpur, Malaysia in November 2023 (SEA) - Organized the Second Training the Trainer Workshop on Good Servicing Practices in Refrigeration and Air-conditioning Sector of the Pacific Island Countries, Melbourne, Australia in December 2023 in collaboration with AREMA and the Government of Australia (PIC)

			- Shared newly developed materials at the Joint SA & SEA Network Meeting in Guangzhou, China in May 2024. Regularly discuss this topic at network/thematic meetings, Assisted Nepal and Bhutan with local trainings. Held Joint SA & SEA master trainers workshop in November 2023 in Malaysia (Bangladesh, Iran, Mongolia, Pakistan, Sri Lanka). UNEP supports NOUs with training materials upon request. (SA) - Service technicians received capacity-building in good refrigeration practices including minimization of leakages and the safe handling of refrigerants, as part of their HPMPs. (LA) - Assisted female technicians during the Workshop for Female Technicians hosted in Trinidad and Tobago to acquire new or updated skills and competencies (CAR)
47. Assist interested national refrigeration training institutes and NOUs to establish agreements to cooperate on refrigeration servicing sector training and adopt UNEP-developed curricula.	Number of national training institutes using the training materials	6	- Assisted national refrigeration training institutes and NOUs in Bahrain, Oman, Iraq, Saudi Arabia and Syria to establish agreements to cooperate on refrigeration servicing sector training and adopt UNEP-developed curricula. (WA) - UNEP offered and promoted the training materials during the Guangzhou, China EE twinning workshop SA breakout session. (SA)
48. Encourage and assist all NOUs to increase their cooperation with their Technical Vocational Education and Training (TVET) authorities with respect to RAC servicing sector training and certification programs	Number of NOUs cooperating with their TVET authorities. Type of support provided.	26	- Encouraged and assisted NOUs in WA to increase their cooperation with their Technical Vocational Education and Training (TVET) authorities with respect to RAC servicing sector training and certification programs. MoAs signed between NOUs and TVET in Bahrain, Iraq, KSA and Syria. (WA) - Organized a Study Visit on Establishment and Implementation of Competency-based Certification of Refrigeration and Air-conditioning Technicians for the Southeast Asia Network, Jakarta, Indonesia in Oct 2023. The meeting was attended by NOU and TVET Authorities from Brunei, Cambodia, Indonesia, Lao PDR, Malaysia, Thailand and Vietnam to discuss and share experiences on integration of good servicing practices in TVET curriculum through regulatory framework; Participated in in-person meeting with TVET Authority in Brunei, Lao PDR, Timor Leste and Vietnam to assist the NOU to work with TVET Authority in the integration of good servicing practices in TVET curriculum and national qualification framework. (SEA) - Organized Thematic Workshop on Establishment and Implementation of Competency-based Certification in Pacific Island Countries in Rarotonga, Cook Islands in February 2024. The meeting was attended by NOU and RAC Association/TVET Authorities of 14 Pacific Island Countries. The meeting discussed the way forward for Pacific Island Countries to establish the competency-based training and certification for RAC servicing sector; Organized follow-up session on establishment and implementation of competency-based certification in Pacific Island Countries during the meeting in Palau in June 2024 to finalize strategy and synergize activities under the HPMP Stage II and KIP Stage I. (PIC) - As this activity is part of all UNEP components for their HPMPs, each HPMP project works with TVET authorities (Bangladesh, Bhutan, China, India, Iran, Maldives, Mongolia, Nepal, Pakistan, Sri Lanka) (SA) - NOUs cooperate with their national TVET authorities as part of their HPMPs, and KIPs where applicable. (LA) - Encouraged the NOU in Guyana, through coordination meetings, to increase cooperation between TVET authorities (Ministry of Education) and technical institutions that provide training (CAR)
49. Provide all NOUs with information and technical and policy assistance for	Number of NOUs assisted, and type of support	69	As part of HPMP projects in Albania, Armenia, Kyrgyzstan, Moldova, Serbia (ECA)

developing national RAC certification programs.	provided.		- Shared information on the competency requirements on good servicing practices to Brunei, Cambodia, Lao PDR, Malaysia, Indonesia, Timor Leste and Vietnam for review and adoption at the national certification programme; Followed-up and provided bilateral support to Brunei, Cambodia, Lao PDR, Timor Leste and Vietnam in establishment of competency-based certification. (SEA) - Organized a dedicated session on competency requirement and shared information on the competency requirements on good servicing practices to 14 PICs for review and adoption at the national certification programme; Followed-up and provided bilateral support to 13 PICs in establishment of competency-based certification. (PIC) - As this activity is part of all UNEP components for their HPMPs, UNEP provides assistance for developing national RAC certification programs (Bangladesh, Bhutan, China, India, Iran, Maldives, Mongolia, Nepal, Pakistan, Sri Lanka). (SA) - Supported eight countries to develop certification scheme through certification of certifiers (Benin, Chad, Cabo Verde, Democratic Republic of Congo, Madagascar, Niger, Senegal and Togo). (AF-F) in may 2024 in Benin (second phase) (AF-F) - Supported 2 countries to develop or update servicing sector certification (Malawi and Rwanda). (AF-A) - NOUs received capacity-building, information and technical assistance support in the development of certification programs as part of their ISS, HPMPs and KIPs, as applicable. (LA)
50. Encourage more Article 5 countries to adopt the Refrigerant Driving License (RDL) global qualification program either to complement their existing certification programme or as an alternative if they do not yet have a certification programme in place.	Number of countries that adopted RDL	0	- RDL was piloted in six countries, there was not sufficient interest from other countries to join the program - Organized a dedicated session on RDL to seek interest from countries during the Thematic Workshop on Establishment and Implementation of Competency-based Certification in Pacific Island Countries in Rarotonga, Cook Islands in February 2024 (PIC) - The RDL program was outreached to the network members during regional and thematic meetings (AF-A)
51. Encourage interested countries to adopt the HFC Outlook Model as a comprehensive tool for modelling and projecting the use of HFCs and alternatives in different consuming sectors and encourage linkage of the model scenarios with the preparation of KIPs	Number of countries using HFC Outlook Model outputs	0	The HFC Outlook model was finalized and enhanced with several features and modules, improving its overall functionality and user experience, during this reporting period, there were no new requests from countries to adopt the HFC Outlook model.
52. Inform all NOUs about relevant standards and codes of practice that promote safe handling of flammable, high-pressure and toxic refrigerants, facilitate the introduction of lower-GWP technologies into the market, and promote sound refrigerant management.	Number of countries assisted. Type of support provided	47	- KIP preparation for Georgia, Moldova, and Serbia includes the review of performance and safety standards (ECA) - Inform all NOUs in WA about relevant standards and codes of practice that promote safe handling of flammable, high-pressure and toxic refrigerants, facilitate the introduction of lower-GWP technologies into the market, and promote sound refrigerant management. A road map for updating related standards has been prepared and shared with all WA countries. (WA) - Discussed with NOU and Standard Authority of Lao PDR on relevant safety standards and adoption of safety standard in handling flammable refrigerant at the national level. (SEA)

			- Discussed during all network meetings and emphasized best practices. (SA) - NOUs received capacity-building, information and technical assistance support in the safe management of flammable/toxic refrigerants as part of their ISSs, HPMPs and KIPs, as applicable. (LA) 7 NOUs (GRN, BAR, SLU, SVG, BHA, JAM (virtual expectational;), TRI) informed about relevant standards and codes of practice during Pilot Training for Advanced NOO (CAR)
53. Encourage all NOUs to cooperate with their standards organisations to consider Montreal Protocol issues.	Number of countries assisted. Type of support provided	44	- Encouraged all NOUs in WA to cooperate with their standards organisations to consider Montreal Protocol issues. A technical meeting on standards was organized in Feb 2024 to develop a road map for standards update. The report was subsequently shared with all WA countries. (WA) - Discussed with NOU and Standard Authority of Lao PDR on relevant safety standards and adoption of safety standard in handling flammable refrigerant at the national level. (SEA) - Discussed during all network meetings and emphasized best practices. (SA) - NOUs are encouraged to cooperate with their national standards bodies, as part of their ISSs, HPMPs and KIPs, as applicable. (LA) 7 NOUs (GRN, BAR, SLU, SVG, BHA, JAM (virtual expectational;), TRI) encouraged to cooperate with their standards organizations to consider Montreal Protocol issues during Pilot Training for Advanced NOO (CAR)
54. Assist interested NOUs with ideas on how to strengthen their national/regional RAC associations, encourage them to interact regularly with their associations, and exchange best practices so that the associations have increased engagement in their countries' national Montreal Protocol activities.	Number of NOUs assisted. Type of support provided	51	- Strengthening RAC associations as part of HPMP projects in Albania, Armenia, Kyrgyzstan, Moldova, Serbia and KIPs in Albania, Armenia, Kyrgyzstan (ECA) - Assisted interested NOUs in WA to strengthen their national/regional RAC associations, encouraged them to interact regularly with their associations, and exchange best practices. EUROVENT ME has been invited to attend the joint network meetings in 2023 and 2024 and actively contributed to the deliberations at the meetings and facilitated the engagement of RAC industry in MP implementation. (WA) - Organized Thematic Workshop on Establishment and Implementation of Competency-based Certification in Pacific Island Countries in Rarotonga, Cook Islands in Feb 2024. The meeting was attended by NOU and RAC Association/TVET Authorities of 14 Pacific Island Countries. The meeting shared experiences in each country and discussed the way forward for PICs to establish the competency-based training and certification for RAC servicing sector (PIC) - Discussed during all network meetings and emphasized best practices. (SA) - All HPMP stage II approved have a topic on Assistance to their national/regional RAC associations. NOUs encouraged to interact regularly with their associations. (AF-F) - Assist 11 NOUs with ideas on how to deal with issues surrounding their national/regional RAC associations during the Network Meeting in Jun 2024. A session was dedicated to focused group discussion on challenges and opportunities. (CAR)
55. Encourage all NOUs to provide increased attention to the food cold chain sector and to strengthen their cooperation with stakeholders in that sector.	Type of support provided	3	- This topic was discussed during the ECA technology roundtable and exhibition at the KGH congress in Belgrade, Serbia, Dec 23 (ECA) - Encourage all NOUs in WA through network meetings and awareness materials, to provide increased attention to the food cold chain sector and to strengthen their cooperation with stakeholders in that sector. (WA)

			- CAP has partnered with GFCCC as a co-organiser of the World Cold Chain Symposium in the period 2021-2024. The 2023 World Cold Chain Symposium was held in Nairobi, Kenya, on Oct. 21, 2023. The theme was Sustainable Growth: Building Business Models for Cold Chain Development. CAP supported participation of around 80 NOOs and country representatives. - As part of 2024 CAP, UNEP is partnering with IIR to update the Cold Chain briefs, that are covering different parts of the Cold Chain cycle and were developed in 2018.
56. Support all NOUs to have an increased understanding of the technical and regulatory issues related to HFCs and alternatives used in mobile air conditioning (MAC).	Nature and type of support provided.	3	- CAP has developed two products that aim to assist Article 5 parties to better understand the technical and regulatory issues related to HFCs and alternatives used in the MAC sector and their national situation with regards to MAC servicing sector: MAC Information Kit and Data Collection Kit for MAC servicing sector. - This topic was discussed during technology roundtable and exhibition during the KGH congress in Belgrade, Serbia, 12.23; - Organized a dedicated session on Innovative Ideas in the MAC Sector during the Joint Network Meeting held in Guangzhou, China in May 2024. (SEA, SA)
57. Conduct research and data gathering to better understand the current situation of African countries with respect to the servicing sector's ability to handle low-GWP alternatives, to help inform NOU strategies and approaches on the same.	Report on servicing sector in Africa	0	The current situation of African countries with respect to the servicing sector's ability to handle low-GWP alternatives was discussed during the regional Kigali implementation plans national expert training held in Abidjan in May 2023. (AF-F)
Outcomes	Outputs		
OUTCOME 7 Energy efficiency is maintained or increased in the RAC sector			- All NOUs are supported to interact with their national energy efficiency policy makers and financial mechanism focal points through Twinning workshops and identify areas of cooperation to promote energy efficiency during the HFC phase down. - All NOUs receive information and have their capacity strengthened to better understand energy efficiency issues related to RAC equipment. - All NOUs receive updated training curricula to teach technicians how to maintain energy efficiency of existing RAC equipment through best installation and servicing practices. - All NOUs are provided with information and assistance to enhance or establish policies or regulations aimed at maintaining and enhancing energy efficiency of existing and new RAC equipment.
2024 Activities	Indicators	Number	Progress
58. Support all interested NOUs to interact with their national energy efficiency policy makers and financial mechanism focal points through Twinning workshops and identify areas of cooperation to promote energy efficiency during the HFC phasedown	Number of NOUs assisted. Type of support provided	103	Based on the findings and outcomes of the Twinning Workshops held till now (Mid-July) and the feedback received from the participants, these Twinning workshops have successfully united stakeholders from Article 5 countries, international and regional organizations, and field experts. Participants were able to exchange insights, tackle challenges, and propose actionable strategies to enhance energy efficiency. These workshops underscored the importance of collaborative efforts in advancing energy efficiency and ozone protection initiatives in Article 5 countries. Several key achievements emerged from these workshops, as National Ozone Officers significantly enhanced their knowledge of energy efficiency technologies and RAC system operations. Awareness of international commitments increased, and policy frameworks were strengthened. Crucial collaboration was facilitated between National Ozone Officers (NOOs) and National Energy Efficiency Policymakers (NEEPs), clarifying roles and responsibilities. Additionally, the

			stakeholders identified recommendations for transitioning to sustainable RAC practices, these included advocating for integrated environmental policies, mandating energy efficiency standards, endorsing energy-efficient procurement guidelines, and enhancing collaboration among relevant authorities.
59. Assist all NOUs to better understand energy efficiency issues related to RAC equipment through information collection of existing information materials and/or development of new materials.	Number and type of information materials developed	4	Based on the recommendations from the recent Twinning Workshops held until mid-July, several essential resources for capacity-building and informational materials have been identified, discussed, and disseminated. These workshops underscored the importance of adhering to recent standards, implementing Minimum Energy Performance Standards (MEPS), and utilizing tools such as Product Registration Systems. Also, includes identifying training material that covers essential topics like refrigerant management and energy-efficient practices, ensuring technicians acquire both theoretical knowledge and practical skills. Briefing sheets have also been identified and highlighted as crucial documents providing government officials and policymakers with essential insights into the benefits of adopting energy-efficient technologies. Additionally, digital resources such as online modules and videos can be developed to offer flexible learning opportunities on emerging technologies, best practices, and maintenance. Tools like Product Registration Systems were introduced and discussed to help monitor and manage the performance of RAC products in accordance with MEPS. Also, regular periodic communications through newsletters and web updates will facilitate the dissemination of case studies, new standards, and successful projects. Furthermore, the establishment of certification programs to formally recognize skills in energy-efficient and environmentally friendly refrigerant management, motivating continuous professional development among technicians and ensuring employers can identify qualified personnel.
60. Provide all NOUs with updated training curricula to teach technicians how to maintain energy efficiency of existing RAC equipment through best installation and servicing practices.	Training curricula updated to reflect energy efficiency considerations	3	- Organized a presentation to explain the NOU and energy efficiency policy maker to understand how good servicing practices can enhance energy performance of RAC appliances during the Twinning workshops held in Guangzhou, China in May 2024 (SEA) - Organized a presentation to explain the NOU and energy efficiency policy maker to understand how good servicing practices can enhance energy performance of RAC appliances during the Twinning workshops held in Cook Islands in Febr 2024 (PIC) - As part of 2024 CAP, UNEP is partnering with AREA to produce an additional module on Energy Efficiency for UNEP AREA training manual, and to translate existing modules into Spanish.
61. Provide all interested NOUs with information and assistance to enhance or establish policies or regulations aimed at maintaining and enhancing energy efficiency of existing and new RAC equipment.	Number of NOUs assisted. Type of support provided	48	- Joint ECA WA twining workshop with MPOs and EE experts in Amman, Jordan, Sep 2023; Shared a compilation of some 75 EE related publications with the participants of the Amman meeting (USB) (ECA) - Supported WA during the joint network meeting and twining workshop for Ozone Officers and EE policy makers in Sep 2024 and during the joint network meeting and thematic workshop for HAT countries in Apr 2024, to have better understanding about the policy, regulations, standards and technical options to enhance EE in the RAC sector; Facilitated exchange of experiences between countries EE related aspects. (WA) - Assisted NOU of Lao PDR, Cambodia and Timor Leste to liaise with the energy office on MEPS and energy labeling and integration with refrigerant. (SEA) - Assisted NOU of 12 PICs including Cook Islands, Kiribati, Marshall Islands, Micronesia, Nauru, Niue, Palau, Solomon Islands, Samoa, Tonga, Tuvalu and Vanuatu to identify potential activities to work with the energy office on the regional MEPS in the Pacific Region. (PIC)

			- Discussed during all network meetings and emphasized best practices. (SA) - Countries supported in the inclusion of energy-efficiency aspects as part of their HPMPs and KIPs (LA) - Two EE Projects approved by ExCom (Belize, Saint Lucia); one Twinning Workshop on EE held June 2024 (CAR)
Outcomes	Outputs		
OUTCOME 8 Gender issues and approaches are considered and addressed in Montreal Protocol programmes and projects	- All UNEP-implemented Multilateral Fund projects include gender mainstreaming components. - All NOUs receive support to identify the entry point to integrate gender mainstreaming into implementation workstreams of the Montreal Protocol. - All NOUs use Regional Network meetings as a forum to further consider gender mainstreaming in the context of their national Montreal Protocol programmes, projects and activities. - Interested women working in the RAC sector in Article 5 countries are offered networking and mentorship opportunities through the International Network of Women in Cooling (INWIC), and interested countries incorporate those activities into HPMP and KIP projects. - More women in Article 5 countries are attracted to work in the RAC sector as a result of awareness, information and opportunities provided by NOUs and INWIC. - All NOUs have enhanced awareness about gender mainstreaming related to Montreal Protocol-related customs activities and encourage their customs authorities to do the same.		
2024 Activities	Indicators	Number	Progress
62. Ensure that all UNEP-implemented Multilateral Fund projects include gender mainstreaming components	Compliance with MLF's Gender Policy is monitored	75	- Supported NOUs to address gender mainstreaming considerations during the preparation and implementation of all MLF funded projects. - The Gender Core team has organised regular briefing sessions for the CAP team on new ExCom decisions on gender mainstreaming in the IS projects (decision 91/63) and HPMP and KIP projects (decision 92/40). - Gender mainstreaming sessions to discuss in details new ExCom requirements in accordance with decisions 91/63 and 92/40 were organized in LA, CAR, ECA, SEA, PIC, AF-A and AF-F, WA. - ECA projects implemented according to MFS / ExCom policies in 6 countries (Albania, Armenia, Georgia, Kyrgyzstan, Moldova, Serbia) (ECA) - Inclusion of gender mainstreaming in all project implementation; Inclusion of gender assessment and gender indicator in all project submitted to the ExCom from 93rd Meeting onwards. (SEA and PIC) - Included in all new project proposals and IS renewal requests. (SA) - A Gender mainstreaming session to discuss in details new ExCom requirements in accordance with decisions 91/63 and 92/40 were organized in Abidjan during our 2023 main network meeting (AF-F) - All NOUs were supported to include Gender Mainstreaming in all the Montreal Protocol projects. Gender mainstreaming was included as an agenda item in all three implemented meetings. (AF-A) - The IS, HPMPs, KIPs and the Twinning projects included gender mainstreaming components. (LA) - Entry points for gender mainstreaming highlighted at the Ju 2024 Network Meeting, in addition to UNEP's implementation of the Policy; MLFS delivered presentation on Gender mainstreaming policy at June 2024 Network Meeting (CAR)
63. Assist NOUs to identify the entry point to integrate gender mainstreaming into implementation workstreams of the	Number of countries assisted. Type of support provided	147	The Guidebook on Mainstreaming Gender in the Implementation of the Montreal Protocol was developed to help advance the agenda of gender equality and women's empowerment in the implementation of the Montreal Protocol by assisting the NOUs and national stakeholders in identifying entry points to

Montreal Protocol.			mainstreaming gender issues into their daily work and operations. • IWD campaign (2024) “Invest in Women, accelerate progress” featured success stories of nine women from the Montreal Protocol community, representing different Montreal Protocol institutions, National Ozone Units and stakeholders, showcasing their leadership and their role in environmental protection. The stories and accompanying quote cards were published sequentially on the OzonAction website between 8 and 29 March 2024 and posted on the regional social media of UNEP ROAP and ROA offices. • Incorporated gender mainstreaming aspects in Montreal Protocol projects in line with MFS / ExCom policies (7 projects approved, 2 projects planned) (ECA) • Organized a dedicated session during the PIC Network Meeting in Apia, Samoa in Sep 2023 on integration of gender mainstreaming into the implementation of the Montreal Protocol. (PIC) • Disseminated leaflet on A guidebook for NOU on how to mainstream gender in the daily implementation of the Montreal Protocol (led by ROAP team) at the Joint Network Meeting (SA & SEA) held in Phuket, Thailand in November 2023 (SA) • CAP provided guidance and ensured that gender mainstreaming was considered in all project (AF-A) • El Salvador and Peru were assisted in the identification of entry points to integrate gender mainstreaming as part of the implementation of their ISs and HPMPs (LA) • Practical entry points for gender mainstreaming identified and presented at the June 2024 Network Meeting, Partnership with INWIC developed to further integrate women in the CAR region in the RSS; Grenada is being used as a pilot to test an ASHRAE Request Form. One request is for linking women in RAC with suitable job placements (CAR)
64. Provide all NOUs with Regional Network meetings to use as a forum to further consider gender mainstreaming in the context of their national Montreal Protocol programmes, projects and activities.	Number of meetings/sessions organised	10	• ECA meetings in Amman, Jordan Sep 2023 and Tirana, Albania Apr 2024 attended by 60% female experts, reference to female participation during opening, many female speakers (ECA) • Facilitated all NOUs in WA to use the network meetings as a forum to further consider gender mainstreaming in the context of their national Montreal Protocol programmes, projects and activities. All network meetings included special sessions on Gender mainstreaming. (WA) • Organized a dedicated session during the PIC Network Meeting in Apia, Samoa in Sep 2023 on integration of gender mainstreaming into the implementation of the Montreal Protocol. (PIC) • Discussed during all network meetings and emphasized best practices. (SA) • One session on Gender Mainstreaming was part of the agenda of the Network Meeting of Ozone Officers of Latin America (July 2024). (LA) • Gender mainstreaming promoted at the Nov 2023 and the Jun 2024 Network Meetings; One workshop for Women in RAC held in Nov 2023 (CAR)
65. Offer interested women working in the RAC sector in Article 5 countries networking and mentorship opportunities through the International Network of Women in Cooling (INWIC), and assist interested countries to incorporate those	Number of projects that include INWIC activities	N/A	• International Network of Women in Cooling (INWIC) continued to advance the engagement of women, promote career opportunities, and increase their overall participation in the HVACR sector. • Through INWIC, UNEP OzonAction is harnessing the institutional reputation, expertise, and knowledge products of these RACHP sector partners to help developing countries (Article 5 countries) in the implementation of the Montreal Protocol. Products and tools, both delivered by INWIC (membership platform, mentoring, internship opportunities) and made available to the wider INWIC network by the

activities into HPMP and KIP projects.			founding partners (webinars, training opportunities, participation in meetings/conferences) aim to assist Article 5 parties mainstream gender consideration into preparation and implementation of their Montreal Protocol projects. • INWIC activities were regularly presented as part of gender sessions of network and thematic meetings, and during the specialized regional female technicians' workshops. • Assessment of use of INWIC activities in UNEP's projects will be done as part of the 2025 CAP.
66. Attract more women in Article 5 countries to work in the RAC sector as a result of awareness, information and opportunities provided by NOUs and INWIC.	Type of assistance provided	N/A	• Regional training workshops for female technicians offer a unique opportunity to discuss openly about barriers for women to enter the RAC field, challenges they are facing when working in the field and their needs and opportunities to remove barriers. CAP so far organised 3 such workshops for female technicians in ROA-A, ROA-F and CAR regions. The fourth workshop for the LA region is planned in November 2024. • As a result of these interactions at the regional level, more countries are organising similar female-only workshops at the national level, as part of their approved activities under the MLF funded projects.
67. Assist Article 5 countries to reflect gender considerations in their Customs work related to the Montreal Protocol as a result of enhanced awareness about this issue by contributing to the Green Customs Initiative's development of a publication on the subject.	Number of countries assisted. Type of support provided	147	• GCI Customs Guide - also highlights GCI members actions in addressing gender issues • Agreement to cooperate with GCI Secretariat to produce Gender Report related to customs. • Female customs trainer from Armenia delivered Green Customs session during ECA network and enforcement meeting in Albania, Tirana Apr 2024 (ECA)
Outcomes	Outputs		
OVERARCHING Article 5 countries meet their commitments through effective and timely implementation of Multilateral Fund projects	<i>HCFC phase out</i> • All Article 5 countries with ongoing HPMP Stages or tranches approved for UNEP implementation are assisted to implement them in a timely and effective manner. • All Article 5 countries with HPMP verification projects approved for UNEP implementation have their HCFC consumption verified in a timely and effective manner, and UNEP helps them implement the recommendations in the verification reports. • All Article 5 countries requesting UNEP assistance to prepare and submit new HPMP Stages or tranches are supported to do so. • All Article 5 countries requesting UNEP assistance to prepare and submit additional activities in their HPMPs under the special funding window to maintain energy efficiency in the refrigeration servicing sector under Executive Committee decision 89/6(b) are supported to do so. <i>HFC phase down</i> • All Article 5 countries requesting UNEP assistance to prepare and submit KIPs are supported to do so. • All Article 5 countries with KIP tranches approved for UNEP implementation are assisted to implement them in a timely and effective manner. • All Article 5 countries requesting UNEP assistance to prepare and submit Pilot projects to maintain and/or enhance energy efficiency of replacement technologies and equipment in the context of HFC phase-down under Executive Committee Decision 91/65 are supported to do so. <i>Unwanted controlled substances</i> • All Article 5 countries requesting UNEP assistance to prepare and submit projects under the funding window for an inventory of banks of used or unwanted controlled substances and a plan for the collection, transport, and disposal of such substances under Executive Committee Decision 91/66 are supported to do so.		
2024 Activities	Indicators	Number	Progress

<i>HCFC phase out</i>			
68. Assist all Article 5 countries with ongoing HPMP Stages or tranches approved for UNEP implementation to implement them in a timely and effective manner.	Number of HPMP Stages/tranches implemented	115	• Provided assistance to 105 countries where UNEP is an implementing agency with ongoing HPMP stages or tranches for implementation in a timely and effective manner.
69. Assist all Article 5 countries with HPMP verification projects approved for UNEP implementation have their HCFC consumption verified in a timely and effective manner and help them implement the recommendations in the verification reports.	Number of HPMP verification projects implemented	39	• Supported all relevant Article 5 countries with preparation and submission of their HPMP verification reports as approved by the Executive Committee. • Provided input to HCFC verification reports for countries where UNEP is the Cooperating Agency. • Encouraged and assisted all such countries to consider implementation of the recommendations from the verification reports, as appropriate.
70. Support all Article 5 countries requesting UNEP assistance to prepare and submit new HPMP Stages or tranches.	Number of new HPMP Stages or tranches submitted	30	• Provided assistance to 30 countries with preparation and submission of subsequent stage/tranche requests
71. Support all Article 5 countries requesting UNEP assistance to prepare and submit additional activities in their HPMPs under the special funding window to maintain energy efficiency in the refrigeration servicing sector under Executive Committee decision 89/6(b).	Number of requests for additional activities in line with decision 89/6 (b)	15	• All countries where UNEP is implementing HPMP projects were informed about provisions of decision 89/6 on additional activities for maintaining energy efficiency in the refrigeration servicing sector in HPMPs for LVCs. • Targeted assistance provided for interested countries about potential activities to be included in the project proposals. • 13 countries were supported to include an additional energy-efficiency component in the tranches of their HPMPs. Projects approved at ExCom-93 and ExCom-94. • Two countries were supported to submit stand-alone additional energy-efficiency project in line with decision 89/6 (Armenia and Cambodia).
<i>HFC phase down</i>			
72. Support all Article 5 countries requesting UNEP assistance to prepare and submit KIPs.	Number of KIP projects approved	31	• Supported 8 countries to submit KIP preparation funding requests and 23 countries to prepare and submit KIP (10 UNEP as lead, 13 UNEP as cooperating agency).
73. Assist all Article 5 countries with KIP tranches approved for UNEP implementation to implement them in a timely and effective manner.	Number of KIP tranches implemented	24	• Provided assistance for 24 countries with approved KIPs where UNEP as a lead (10) or cooperating agency (14) for implementation in a timely and effective manner.
74. Support all Article 5 countries requesting UNEP assistance to prepare and submit Pilot projects to maintain and/or enhance energy efficiency of replacement technologies and equipment in the context of HFC phase-down under Executive Committee Decision 91/65 are supported	Number of requests for pilot projects in line with decision 91/65	2	• Two countries requested UNEP's assistance to prepare and submit Pilot projects to maintain and/or enhance energy efficiency of replacement technologies and equipment in the context of HFC phase-down under Executive Committee Decision 91/65 (KYR and NIC)

to do so.			
<i>Unwanted controlled substances</i>			
75. Support all Article 5 countries requesting UNEP assistance to prepare and submit projects under the funding window for an inventory of banks of used or unwanted controlled substances and a plan for the collection, transport, and disposal of such substances under Executive Committee Decision 91/66.	Number of countries with funding requests for inventory of banks of used and unwanted controlled substances	27	Supported 27 countries to prepare and submit projects under the funding window for an inventory of banks of used or unwanted controlled substances and a plan for the collection, transport, and disposal of such substances under Executive Committee Decision 91/66.

PART III: 2025 CAP BUDGET

Overview of proposed 2025 budget

Summary

1. While developing this budget proposal, UNEP considered feedback received from Article 5 countries about their needs related to meeting the 67.5% phase out target for HCFCs in 2025, maintaining the HFC freeze and preparing for the upcoming reduction targets, new Kigali Amendment responsibilities, and recent developments under the Montreal Protocol. The proposal also reflects UNEP's internal analysis of the CAP structure, staff roles and responsibilities, and the distribution of resources within CAP. It also considers the funds returned to the previous Executive Committee as an indication of actual expenditure. UNEP continues to exercise due diligence and optimise activities and costs to ensure the most efficient use of funds.

2. UNEP undertook an in-depth review of the actual annual expenditures for the CAP for the period 2022-2024 and this was compared with the partial expenditures for the current year up to 31 August 2024 to make projections for 2025. In accordance with Decision 93/91(d)(iv), Table 1 presents a proposed budget for 2025 and a report on the costs incurred in the prior years.

3. To deliver the planned comprehensive compliance assistance services to Article 5 countries during 2025, UNEP requests Executive Committee approval of US\$ 12,086,637, which consists of a project cost of US\$ 11,191,331 and programme support costs (PSC) of US\$ 895,306 (8%). For personnel lines, this request reflects a 2.99% increase on staff lines to cover inflationary costs for encumbered positions and year 2024 UN standard costs for vacant positions. For activity lines, this request is based on a growth scenario for Network meeting lines (20% increase), travel costs (5% increase), and a provision for technical experts for energy efficiency (US\$ 150,000).

4. In total, this request represents an increase of 5.27% compared to the 2024 budget. This increase includes the US\$ 150,000 allocated to UNEP for technical and policy support for low-volume consuming (LVC) countries to support KIP implementation as per Decision 93/95 (d)(ii). For reference, the percentage increase without the inclusion of this special allocation is 3.86%. UNEP seeks an exceptional agreement from the Executive Committee to exceed the 3% threshold that is allowed under Executive Committee Decision 47/24 (a)(iii), which limits the increase in the CAP budget to that amount unless the Executive Committee is given evidence that inflationary pressures justify otherwise.

5. Based on the projected requirements, UNEP proposes a 2025 budget level that is realistic and sufficient to cover CAP operations, noting that UNEP continues to return all unspent balances from CAP to the Executive Committee in a timely manner in accordance with Decision 35/36(d).

Personnel component

6. UNEP has based the 2025 staff costs for encumbered positions on the projected actual costs for those positions, which reflect real costs that are being incurred during the current year (i.e., 2024), plus a 3% increase to account for inflation. It is important to note that staff entitlements and benefits change from year-to-year and from duty station to duty station, in accordance with the UN staff regulations and rules,

and final incurred costs can vary depending on the number of dependents, education grant entitlement, home leave, etc. applicable in a particular year. For vacant positions, UNEP has used the official UN 2024 standard costs since the actual costs for those positions will only be known after they are encumbered. These two factors have resulted in slight adjustments to the costs of all staffing lines.

Changes to existing staff lines

7. In accordance with Decision 93/91(d)(iii), UNEP is proposing to the Executive Committee the following changes to staff levels:

- *Budget line 1301 – G6 Principal Assistant HOB reclassification to G7 level.* This global post serves as the principal assistant to the Head of OzonAction and plays a critical role in ensuring the efficient, accurate, and timely operations for all CAP teams with respect to both UNEP and Multilateral Fund rules, procedures and guidelines. The position is the main channel of communication, correspondence, travel planning, leave monitoring, and programme management support and plays a critical role in liaising with UNEP Headquarters, the Secretariats, and the Regional CAP teams. The proposed reclassification reflects the increased level of responsibilities and complexity of duties related to administrative management and coordination support for all CAP regional teams in diverse areas including human resources e.g. recruitment, performance appraisal, follow up on staff training, finance/budget, and general office management in the application of UN rules and procedures and liaises with central administration, UNON and Corporate Services Division as required. The position also provides concrete advice in terms of programme/project implementation and related requirements for the Branch and ensures that correspondence flows smoothly throughout the office and in the absence of the Head of Branch, makes decisions on urgent matters and bringing them to the attention of the Officer-in-Charge. The change is also consistent with the level of senior assistants in UNEP who perform similar duties for other Branch Heads and responds to the need to harmonize post levels.
- *Budget line 1345 – G6 Global Administrative Assistant reclassification to G7 level.* This post is responsible for assisting the Global Finance and Budget Officer in executing financial and budget roles related to project internalization, implementation, and closure. The duties include posting of allotment of approved budget and allocation of cash. The position assists the team in closure of projects/grants and related account reconciliation that provides important input in the process of progress report preparation and return of balances schedules. The post also supports liaison between the Regional CAP teams and UNON in Nairobi, including following up on pending payments, adjustments, payables clearance, periodic reconciliation of accounts, review of substantively completed projects for financial closure and management of open items under the supervision of the Global Administration and Finance Officer. The scope of the financial support required has evolved to include additional responsibilities with increased number of projects and the requirements of timely progress reporting and project closure in a complex operating system. The requested upgrade reflects the increased responsibilities and complexity of duties related to supporting financial project management and reporting and is consistent with the level of Administrative Assistants in other UNEP divisions performing similar duties.
- *Budget line 1342 – G5 Global Administrative Assistant reclassification to G6 level.* This post is responsible for supporting the Global Finance and Budget Officer in the role of projecting monitoring and control. This position assists in ensuring compliance with reporting requirements

under the Integrated Project Monitoring and Reporting (IPMR) and the Quarterly Business Reporting (QBR). The post assists in reviewing and reporting project progress status and follow up with the respective responsible officers to ensure timely and accurate reporting. The position assists in providing input required in preparation of project status reports and identifying corrective actions to resolve project delays. The process require complex data analysis and interpretation as well as coordination with the respective regional teams. The scope of the financial support has evolved to include additional complex project reporting requirements with the implementation of IPMR and prioritization of QBR by UNEP management. The upgrade reflects the increased responsibilities and complexity of duties related to project monitoring reporting. This is also consistent with the level of Administrative Assistants in other divisions performing similar duties.

Structure

10. UNEP's continued high level of performance as an Implementing Agency of the Multilateral Fund, thanks to the expertise, dedication, and hard work of the Regional and Global CAP teams in five duty stations. Over the years, these Montreal Protocol professionals have evolved both individually and collectively to meet the ever-changing needs of Article 5 countries and to adjust to the evolution of the Montreal Protocol, including the new Kigali Amendment developments. This flexibility and ability to adapt quickly to respond to country needs is one of the hallmarks of CAP. An organigram describing the structure of CAP for 2025 follows.

Travel component

11. The CAP activity budget lines including those for travel had a zero percent growth over the three-year period 2020-2023. Today, travel costs for staff are higher across the board due to increased consumer demand in the post-COVID recovery period and higher energy costs resulting from market trends and geopolitical developments affecting energy supplies. Higher costs are mainly attributed to the increase in global air ticket prices as well as the Daily Subsistence Allowance (DSA) and Terminal Expense (TE) rates. Lastly, as new CAP staff have joined and others are expecting to join soon, the total travel costs are expected to increase for 2025. UNEP proposes a 5% increase for the staff travel lines due to these factors.

Regional activities component

Network and thematic meetings/Country to country cooperation/Regional awareness raising

12. UNEP proposes a 20% increase to these regional lines for the same justification cited above for staff travel (higher ticket costs, DSA and TE costs for participants at Regional Network and thematic meetings) and to increase country-to-country assistance (which includes travel costs) and regional awareness activities to account for increased demand for these services.

Global services component

Technical and policy support for low-volume consuming (LVC) countries to support KIP implementation

13. In accordance with decision 93/95 (d) and recognizing that LVC countries continue to be a high priority for CAP assistance, UNEP is including this activity again in the proposed budget. In 2025, UNEP will identify the LVCs for which UNEP is the Lead Agency and the KIPs are in the implementation phase and prioritize the assistance for those countries (see *Additional support to LVCs in 2025* in paragraphs 20-21 of Part I). This may include inter alia extending activities that were developed under the same component

in 2024 to more countries as and when the Executive Committee approves their KIPs for UNEP implementation. The Regional CAP teams will identify specific areas of support needed by those countries and propose activities to meet the needs. The funding will then be allocated to the regions as appropriate to implement the agreed activities. As per the decision, the amount proposed for this activity cost in 2025 is \$ 150,000.

Energy efficiency experts

13. As indicated in the 2023 and 2024 CAP budgets, the Montreal Protocol is in a profound state of change and evolution in Article 5 countries with respect to national conditions, policy developments, current implementation progress and future compliance obligations with respect to the Kigali Amendment. This requires additional expertise and levels of effort at the Implementing Agency level. Accordingly, this budget includes provision for hiring 2-3 senior energy efficiency experts to support the CAP team in responding to the needs of Article 5 countries in this area. UNEP strongly believes that there is a strong potential for non-investment energy efficiency interventions in Article 5 countries during the HFC phase down. However, this potential in many countries remains largely untapped. There is a significant gap between opportunities for energy efficiency under the Multilateral Fund and the level of interventions in energy efficiency in most of the countries especially in LVCs. UNEP seeks the technical assistance (consultants/experts) in identification of the area of the work where UNEP's intervention can be beneficial to Article 5 countries. For example, support for the introduction of minimum energy performance standards (MEPS) and labelling programmes, non-investment support for SMEs, capacity building for establishing energy efficiency testing and certification centers, etc. UNEP also explores opportunities to develop and manage projects for maintaining and/or enhancing energy efficiency while phasing down HFCs under the Multilateral Fund windows for energy efficiency in cooperation with United for Efficiency (U4E). The estimated cost is based on standard consultancy rates as per the UN rules and regulations. This requirement is intended to be short-term, and it will be revisited in the subsequent CAP budgets.

Meetings component

Advisory and Consultative Meetings

14. The costs for is reduced from \$20,000 to \$5,000 for 2025 as per Decision 86/61 (ii), UNEP may continue extending the prioritization of funding between CAP budget lines to accommodate changing priorities.

Table 1 : 2023-2024 approved CAP budgets, actual expenditures and balances, and proposed 2025 budget (US\$)

Budget item	2023			2024				2025
	Approved	Actual expenditures	Estimated balances as of 31-Dec-2024	Approved	Estimated expenditure as of 31-Aug-2024	Estimated expenditure as of 31-Dec-2024	Projected balance as of 31-Dec-2024	Proposed
Staff and personnel	7,324,162	6,412,525	911,637	7,626,200	4,278,689	7,130,900	495,300	7,854,531
Travel	548,000	535,755	12,245	548,000	470,199	548,000	0	575,400
Regional activities and meetings	1,117,000	1,117,000	0	1,117,000	699,717	1,117,000	0	1,316,400
Global services	550,000	329,531	220,469	750,000	279,903	725,000	25,000	855,000
Space and equipment	590,000	541,362	48,638	590,000	346,159	570,000	20,000	590,000
Sub-total	10,129,162	8,936,173	1,192,989	10,631,200	6,074,667	10,090,900	540,300	11,191,331
PSC	810,333	714,894	95,439	850,496	485,973	807,272	43,224	895,306
Grand total	10,939,495	9,651,067	1,288,428*	11,481,696	6,560,640	10,898,172	583,524	12,086,637

* Balances returned to the 95th meeting of the Executive Committee.

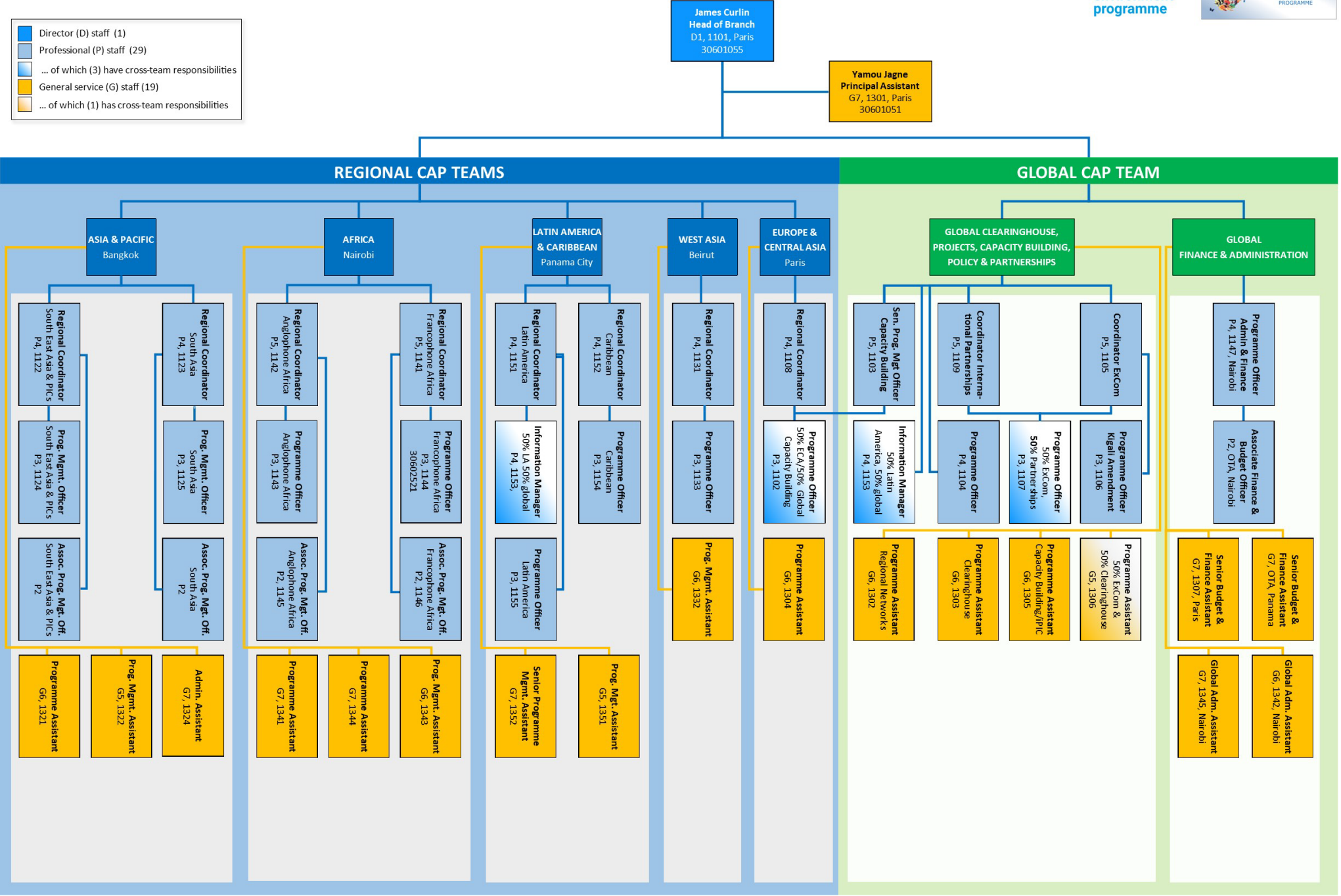
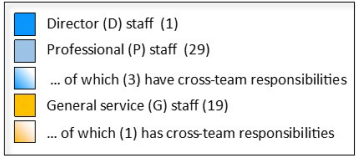
Budget

Budget Line	Component	Location	w/m	Grade	Approved CAP 2024	Proposed CAP 2025
10 PROJECT PERSONNEL COMPONENT						
	Title/Description					
1101	Head of Branch	Paris	12	D-1	284,000	292,520
1102	Montreal Programme Officer – ECA/Global Capacity Building	Paris	12	P-3	180,600	180,600
1103	Montreal Protocol Senior Programme Management Officer - Capacity Building	Paris	12	P-5	245,800	245,800
1104	Montreal Protocol Programme Officer	Paris	12	P-4	197,000	202,910
1105	Montreal Protocol Senior Coordination Officer -ExCom	Paris	12	P-5	187,000	192,610
1106	Montreal Protocol Programme Officer	Paris	12	P-3	180,600	180,600
1107	Montreal Protocol Programme Officer – ExCom/Partnerships	Paris	12	P-3	194,000	199,820
1108	ECA Montreal Protocol Regional Coordinator	Paris	12	P-4	249,000	256,470
1109	Montreal Protocol Coordinator International Partnerships	Paris	12	P-5	278,500	278,500
1122	Montreal Protocol Programme Officer – Southeast Asia & PICs	Bangkok	12	P-4	177,000	182,310
1123	Montreal Protocol Programme Officer – South Asia	Bangkok	12	P-4	196,000	201,880
1124	Montreal Protocol Programme Officer – Southeast Asia & PICs	Bangkok	12	P-3	196,000	201,880
1125	Montreal Protocol Programme Officer – South Asia	Bangkok	12	P-3	195,000	200,850
1126	Montreal Protocol Programme Officer – Southeast Asia & PICs	Bangkok	12	P2	160,000	160,000
1127	Montreal Protocol Programme Officer – South Asia	Bangkok	12	P2	160,000	160,000
1131	Montreal Protocol Regional Coordinator - West Asia	Manama	12	P-4	274,000	282,220
1132	Montreal Protocol Programme Officer - West Asia	Manama	12	P-3	183,000	188,490
1141	Montreal Protocol Regional Senior Coordinator -Francophone Africa	Nairobi	12	P-5	285,000	293,550
1142	Montreal Protocol Regional Senior Coordinator - Anglophone Africa	Nairobi	12	P-5	285,000	293,550
1143	Montreal Protocol Programme Officer - Anglophone Africa	Nairobi	12	P-3	250,000	257,500
1144	Montreal Protocol Programme Officer -Francophone Africa	Nairobi	12	P-3	197,000	202,910
1145	Montreal Protocol Associate Officer Anglophone Africa	Nairobi	12	P-2	168,700	173,761
1146	Montreal Protocol Associate Officer -Francophone Africa	Nairobi	12	P-2	171,000	176,130
1147	Montreal Protocol Programme Officer (Admin and Finance)	Nairobi	12	P-4	206,000	212,180
1151	Montreal Protocol Regional Coordinator - Latin America	Panama City	12	P-4	228,000	234,840
1152	Montreal Protocol Regional Coordinator - Caribbean	Panama City	12	P-4	181,000	186,430
1153	Montreal Protocol Information Manager	Panama City	12	P-4	228,000	234,840
1154	Montreal Protocol Programme Officer - Caribbean	Panama City	12	P-3	176,000	181,280
1155	Montreal Protocol Programme Officer - Latin America	Panama City	12	P-3	228,000	234,840
1301	Principal Assistant HOB	Paris	12	G-7	109,000	127,000
1302	Programme Assistant - Regional Networks	Paris	12	G-6	109,000	112,270
1303	Programme Assistant - Clearinghouse	Paris	12	G-6	111,000	114,330
1304	Programme Assistant – Europe & Central Asia	Paris	12	G-6	104,000	107,120
1305	Programme Assistant - Capacity Building/iPIC	Paris	12	G-6	104,000	106,000
1306	Programme Assistant	Paris	12	G-5	93,000	95,000
1307	Global Budget & Finance Assistant	Paris	12	G-7	129,000	132,870

Budget Line	Component	Location	w/m	Grade	Approved CAP 2024	Proposed CAP 2025
1321	Programme Assistant - South Asia	Bangkok	12	G-6	93,000	95,790
1322	Programme Assistant – Southeast Asia & PICs	Bangkok	12	G-5	73,000	75,190
1323	Administrative Assistant – Asia-Pacific	Bangkok	12	G-7	93,000	95,790
1332	Programme Assistant – West Asia	Lebanon	12	G-6	93,000	95,790
1341	Administrative Assistant - Africa	Nairobi	12	G-7	65,000	66,950
1342	Global Administrative Assistant	Nairobi/Law	12	G-6	40,000	49,500
1343	Programme Assistant - Africa	Nairobi	12	G-6	48,000	49,500
1344	Programme Assistant - Francophone Africa	Nairobi	12	G-7	64,000	65,920
1345	Global Administrative Assistant	Nairobi/Law	12	G-7	49,000	65,000
1351	Administrative Assistant – Latin America & Caribbean	Panama	12	G-5	41,000	42,230
1352	Administrative Assistant – Latin America & Caribbean	Panama	12	G-7	67,000	69,010
Subtotal Staff Personnel					7,626,200	7,854,531
1600	TRAVEL					
1601	Staff travel - Global	Paris			171,000	179,550
1610	Staff travel – Europe & Central Asia	Paris / ECA			25,000	26,250
1620	Staff travel – South Asia	Bangkok			33,000	34,650
1621	Staff travel – South East Asia	Bangkok			33,000	34,650
1622	Staff travel - PIC	Bangkok			50,000	52,500
1630	Staff travel – West Asia	Manama			45,000	47,250
1640	Staff travel – Francophone Africa	Nairobi			60,500	63,525
1641	Staff travel - Anglophone Africa	Nairobi			60,500	63,525
1650	Staff travel - Caribbean	Panama			35,000	36,750
1651	Staff travel - Latin America	Panama			35,000	36,750
Subtotal Travel					548,000	575,400
20	REGIONAL ACTIVITIES					
	CONTRACT SERVICE COMPONENT					
2210	Network and thematic meetings/Country to country cooperation/Regional awareness – Europe & Central Asia	Paris / ECA			130,000	156,000
Subtotal Europe & Central Asia					130,000	156,000
2220	Network and thematic meetings/Country to country cooperation/Regional awareness - South Asia	Bangkok			92,000	110,400
2221	Network and thematic meetings/Country to country cooperation/Regional awareness - Southeast Asia	Bangkok			70,000	84,000
2222	Network and thematic meetings/Country to country cooperation/Regional awareness - PIC	Bangkok			105,000	126,000
Subtotal Asia-Pacific					267,000	320,400
2230	Network and thematic meetings/Country to country cooperation/Regional awareness – West Asia	Manama			100,000	120,000
Subtotal West Asia					100,000	120,000
2240	Network and thematic meetings/Country to country cooperation/Regional awareness – Francophone Africa	Nairobi			175,000	210,000
2241	Network and thematic meetings/Country to country cooperation/Regional awareness – Anglophone Africa	Nairobi			175,000	210,000
Subtotal Africa					350,000	420,000

Budget Line	Component	Location	w/m	Grade	Approved CAP 2024	Proposed CAP 2025
2250	Network and thematic meetings/Country to country cooperation/Regional awareness – Caribbean	Panama			130,000	156,000
2251	Network and thematic meetings/Country to country cooperation/Regional awareness – Latin America	Panama			120,000	144,000
Subtotal Latin America & Caribbean					250,000	300,000
Subtotal Regional activities					1,097,000	1,316,400
30	GLOBAL SERVICES/ CAPACITY DEVELOPMENT PORTFOLIO *					
3210	NOO Training				50,000	50,000
3211	Policy & Technical Assistance				95,000	95,000
3212	Translation & Outreach				160,000	160,000
3213	Provision of technical expertise - Energy Efficiency				0	150,000
3214	Refrigeration Servicing Sector Assistance				160,000	160,000
3215	Enforcement & customs				85,000	85,000
3216	Technical and policy support for LVC countries to support KIP implementation				200,000	150,000
Subtotal Global Services					750,000	850,000
40	MEETINGS/SUPPORT					
4210	Advisory and Consultative Meetings and Stakeholders Workshops	Paris/Regions			20,000	5,000
Subtotal Meetings					20,000	5,000
Subtotal Global Services/Meetings					770,000	855,000
50	OFFICE OPERATIONS					
5210	Office Operations/Communication (equipment, rental, supplies & maintenance)	Paris			290,000	290,000
5220	Office Operations/Communication (equipment, rental, supplies & maintenance)	Regions			300,000	300,000
Subtotal Office Operations					590,000	590,000
90	TOTAL DIRECT PROJECT COST				10,631,200	11,191,331
	<i>Programme support costs (8%)</i>				850,496	895,306
99	GRAND TOTAL				11,481,696	12,086,637

* 3210-3216 activities and budget to be carried to 2025. Note that for all other budget lines, the unspent balances will be returned.



ANNEXES RELATED TO 2025 WORKPLAN

Annex 1 – Logical framework analysis for 2025

Overarching Desired Outcome: ARTICLE 5 COUNTRIES MEET AND SUSTAIN COMPLIANCE WITH MONTREAL PROTOCOL AND AMENDMENTS		
Outcomes	Outputs (2024-2026 CAP Strategy)	Relevant SDG targets
OUTCOME 1 National Ozone Units effectively manage their national programmes	- All Article 5 countries with Institutional Strengthening projects approved for UNEP implementation have NOUs that function effectively and deliver the outputs described in their IS renewal. - Any NOU requesting region- and country-specific compliance assistance to address specific technical, policy, or operational issues is provided with that support. - All Ozone Officers and/or their assistants learn from peer-to-peer interaction and strengthen cooperation at the regional and international levels through participation in Regional Networks of Ozone Officers, which may include physical and/or online regional, sub-regional, interregional, and/or thematic meetings. - All new Ozone Officers and/or their assistants acquire the basic skills, competencies and understanding of the Montreal Protocol and Multilateral Fund. - Any Ozone Officer who wishes to further enhance her/his management of their NOUs acquires those advanced skills. - Selected Ozone Officers (pilot) receive training on multilateral environmental agreement (MEA) negotiation skills with regard to Montreal Protocol/Multilateral Fund meetings. - Any NOU requesting or needing specific support is assisted through country-to-country (south-south/north-south) cooperation facilitated by CAP, e.g., NOU-NOU meetings, study tours, technology roundtables. - NOUs are assisted to explore synergies related to Montreal Protocol and Kigali Amendment objectives with national energy efficiency policymakers, financial mechanism focal points, climate change focal points, and others through the approved twinning project and other activities.	☒ Human health is protected (SDG 3) ☒ Ecosystems are healthy (SDG 14 & 15) ☒ Climate is protected (SDG 13) ☐ Food security is improved, and food loss reduced (SDG 2) ☐ Economic competitiveness is maintained (SDG 1, 8 & 9) ☒ Sustainable technologies and practices adopted (SDG 12) ☒ More women enter workforce (SDG 5) ☒ Montreal Protocol objectives achieved through partnerships (SDG 17)
2024 Activities		Indicators
1.	Provide all Article 5 countries with IS projects approved for UNEP implementation with technical assistance to expedite the preparation, implementation, monitoring and reporting of IS phases as per Annex 5	Number of IS phases successfully implemented and monitored
2.	Provide support to any NOU requesting region- and country-specific compliance assistance needed to address specific technical, policy, or operational issues as per Annex 6, or as per ad hoc requests.	Number and type of services delivered
3.	Organise Regional Network meetings for Ozone Officers in all ten regions, including physical and/or online regional, sub-regional, inter-regional, and/or thematic meetings, so that all Ozone Officers and/or their assistants can learn from peer-to-peer interaction and strengthen cooperation at the regional and international levels.	Number of meetings successfully organized (2 per region target)
4.	Offer introductory training to all new Ozone Officers and/or their assistants to acquire the basic skills, competencies and understanding of the Montreal Protocol and Multilateral Fund.	Number of Ozone Officers/assistants trained (all new Ozone Officers)
5.	Offer advanced training to interested Ozone Officers to acquire advanced skills to further enhance her/his management of their	Number of Ozone Officers trained

	NOUs.	
6.	Develop and pilot a short training on Montreal Protocol negotiation skills for Ozone Officers for effective participation in Montreal Protocol and Multilateral Fund meetings.	Training developed
7.	Support NOUs requesting or needing specific support through country-to-country (south-south/north-south) cooperation facilitated by CAP, e.g., NOU-NOU meetings, study tours, technology roundtables.	Number and type of country-to-country cooperation activities
8.	Assist NOUs to explore synergies related to Kigali Amendment objectives with national energy efficiency policies and financial mechanisms.	Number of twinning workshops organised
9.	Assist interested NOUs to understand methodology for establishing inventories of banks of used or unwanted controlled substances and identification of potential strategy and business model for country to handle used or unwanted controlled substances in accordance with the relevant decision of the Executive Committee.	Number and type of support
Outcomes		Relevant SDG targets
OUTCOME 2 Article 5 countries report accurate and timely data	Outputs (2024-2026 CAP Strategy)	
	- The status of Article 7 and Country Programme data submissions is regularly monitored, and follow-up support is offered to countries. - Any NOU requesting support with collecting, reviewing and reporting accurate Article 7 and/or Country Programme data is assisted to do so, so that they report by (or in advance of) the reporting deadlines. - All NOUs are assisted in understanding the revised data reporting formats and the new data reporting obligations related to the Kigali Amendment, and to use the online reporting systems. - All NOUs are made aware of best practices and methodologies for data collection, crosschecking and reporting requirements for all controlled substances. - All NOUs are offered information or assistance to establish their HFC baselines and the starting points for sustained aggregate reductions in HFC consumption.	☒ Human health is protected (SDG 3) ☒ Ecosystems are healthy (SDG 14 & 15) ☒ Climate is protected (SDG 13) ☐ Food security is improved, and food loss reduced (SDG 2) ☐ Economic competitiveness is maintained (SDG 1, 8 & 9) ☐ Sustainable technologies and practices adopted (SDG 12) ☐ More women enter workforce (SDG 5) ☒ Montreal Protocol objectives achieved through partnerships (SDG 17)
2024 Activities		Indicators
10.	Regularly monitor the status of Article 7 and Country Programme data to identify and avoid late submissions or risks of non-compliance and provide follow-up support to countries as needed.	Status report on data submission. Type of support provided
11.	Assist any NOU requesting support with collecting, reviewing and/or reporting accurate Article 7 and/or Country Programme data.	Number of countries supported. Type of support provided
12.	Regularly follow up with all NOUs about data reporting deadlines and online reporting systems and/or forms.	Number and type of support provided
13.	Make all NOUs aware of best practices and methodologies for data collection, cross-checking and reporting requirements for all controlled substances and encourage the institutionalization those processes.	Type of support provided
14.	Develop a tool to assist NOUs in tracking and monitoring the utilization of HFC quota in CO ₂ tonnes equivalent to ensure compliance with obligations under the Kigali Amendment.	Tool developed
15.	Encourage all NOUs to identify and analyse differences between their country's reported trade data and those reported by other countries with whom they trade and to resolve any inconsistencies with their counterparts, including assisting the NOUs with understanding the annual aggregated export data provided by the Ozone Secretariat.	Type of support provided

16.	Offer interested NOUs from Group 2 countries information or assistance to establish their HFC baselines and the starting points for sustained aggregate reductions in HFC consumption.	Type of support provided
Outcomes	Outputs (2024-2026 CAP Strategy)	Relevant SDG targets
OUTCOME 3 Effective legal, regulatory and policy frameworks are in place and enforced	- All NOUs are informed about options, including preventative approaches involving awareness and education, to enhance their national Montreal Protocol monitoring, reporting, verification and enforcement (MRVE) systems. - All NOUs are assisted to operate and enhance their HCFC licensing and quota systems as per Montreal Protocol and Multilateral Fund targets. - All NOUs of Article 5 Parties to the Kigali Amendment are assisted to develop, operationalize and enhance their HFC licensing and quota systems. - All NOUs in countries that have not yet ratified the Kigali Amendment are encouraged to consider introducing voluntary licensing systems. - All NOUs are made aware of the benefits of, and approaches for, electronic licensing systems for controlling HCFCs and HFCs. - All NOUs are informed about existing HCFC and HFC legislation in Article 5 and nonArticle 5 countries and offered assistance with developing/enhancing their own. - All NOUs participating in the informal Prior Informed Consent (iPIC) mechanism use that system to support enforcement of their licensing and quota systems, more countries are encouraged to join, and the system is modified to reflect emerging needs. - All NOUs are provided with information and assistance to identify/establish policies or regulations to regulate RAC/MAC servicing sector. - All NOUs in Article 5 countries that have not yet ratified the Kigali Amendment are assisted to ratify through support provided by CAP in collaboration with the Ozone Secretariat.	☒ Human health is protected (SDG 3) ☒ Ecosystems are healthy (SDG 14 & 15) ☒ Climate is protected (SDG 13) ☐ Food security is improved, and food loss reduced (SDG 2) ☐ Economic competitiveness is maintained (SDG 1, 8 & 9) ☐ Sustainable technologies and practices adopted (SDG 12) ☐ More women enter workforce (SDG 5) ☒ Montreal Protocol objectives achieved through partnerships (SDG 17)
2024 Activities		Indicators
17.	Inform all NOUs about options, including best practices and preventative approaches involving awareness and education, to enhance their national Montreal Protocol monitoring, reporting, verification and enforcement (MRVE) systems.	Type of support provided
18.	Strengthen the capacity of all NOUs to operate and enforce their HCFC licensing and quota systems as per Montreal Protocol and Multilateral Fund targets.	Type of support provided
19.	Assist all NOUs of Article 5 Parties to the Kigali Amendment which have not yet established their HFC licensing and quota systems to do so.	Number of countries that established HFC licensing and quota system. Type of support provided
20.	Assist all NOUs in Article 5 countries that have not yet ratified the Kigali Amendment to do so, in collaboration with the Ozone Secretariat.	Number of countries assisted that ratified the Kigali Amendment. Type of support provided
21.	Encourage all NOUs in countries that have not yet ratified the Kigali Amendment to consider introducing voluntary HFC licensing and quota systems.	Number of countries with voluntary HFC licensing and quota system. Type of support provided
22.	Encourage NOUs to consider adopting electronic licensing systems where appropriate.	Type of support provided
23.	Support all NOUs participating in the informal Prior Informed Consent (iPIC) mechanism to use that system to support enforcement of their licensing and quota systems, and encourage more countries to join.	Number of countries participating in iPIC. Statistics of iPIC exchanges

24.	Inform all NOUs about existing HCFC and HFC legislation in Article 5 and non-Article 5 countries (including the MAC sector) and offer assistance for developing/enhancing their own.	Type of support provided. Number of NOUs assisted with policy development/update
25.	Assist all NOUs in Article 5 parties to adopt legislative and policy measures related to issues highlighted by TEAP (e.g. fire suppression, refrigerant life cycle management).	Type of support provided
Outcomes		Relevant SDG targets
OUTCOME 4 Imports and exports are controlled, and illegal trade is reduced/prevented	Outputs (2024-2026 CAP Strategy) - All NOUs are encouraged to update, monitor or enforce their national regulations and policies to facilitate and monitor legal trade in controlled substances and to combat illegal trade through an integrated approach. - All NOUs are provided with tools developed by UNEP and its partners for use in the delivery of their national Customs training, and, as appropriate, training of environmental inspectors and other law enforcement officers. - All NOUs have increased awareness and understanding about critical Montreal Protocol Customs issues, including best practices, innovative approaches and ways to combat illegal trade in controlled substances. - All NOUs are made aware of innovative methods that support enforcement of national licensing systems, both at and beyond the Customs check point in domestic markets. - All NOUs are encouraged to interact more closely with Customs agencies to promote regional and international action to combat illegal trade. - Interested national Customs training academies are encouraged and assisted to adopt the UNEP-WCO Customs Training Manual and e-learning into their national curricula. - Interested regional and sub-regional organizations are encouraged to develop regional and/or sub-regional initiatives or policies to facilitate and monitor legal HCFC trade and to combat illegal trade. - All NOUs are assisted to work with Customs to promote adoption of the 2022 Harmonized System codes and/or subcodes or otherwise adopt regional codes or other interim measures for monitoring HFC imports and exports.	☒ Human health is protected (SDG 3) ☒ Ecosystems are healthy (SDG 14 & 15) ☒ Climate is protected (SDG 13) ☐ Food security is improved, and food loss reduced (SDG 2) ☒ Economic competitiveness is maintained (SDG 1, 8 & 9) ☒ Sustainable technologies and practices adopted (SDG 12) ☒ More women enter workforce (SDG 5) ☒ Montreal Protocol objectives achieved through partnerships (SDG 17)
2024 Activities		Indicators
26.	Assist all NOUs requesting support to update, monitor or enforce their national regulations and policies to facilitate and monitor legal trade in controlled substances and to combat illegal trade through an integrated approach.	Number of NOUs supported. Type of support provided
27.	Provide all NOUs with tools developed by UNEP and its partners for use in the delivery of their national Customs training, and, as appropriate, training of environmental inspectors and other law enforcement officers.	Number and type of tools provided
28.	Increase the awareness and understanding of all NOUs about critical Montreal Protocol Customs issues, including best practices, innovative approaches and ways to combat illegal trade in controlled substances.	Number of sessions on customs issues in the regional network/thematic meetings
29.	Make all NOUs aware of methods that support enforcement of national licensing systems, both at and beyond the Customs check point in domestic markets, including market surveillance and facility inspections.	Number of NOUs assisted. Type of support provided
30.	Encourage all NOUs to institutionalize cooperation with Customs Authorities, possibly through signing MoUs, and interact more closely with Customs agencies to promote regional and international action to combat illegal trade.	Type of support provided

31.	Encourage and assist interested national Customs training academies to adopt the UNEP-WCO Customs Training Manual into their national curricula.	Number of countries provided with <i>Montreal Protocol Training Manual</i>
32.	Encourage interested regional and sub-regional organizations to develop regional and/or sub-regional initiatives or policies to facilitate and monitor legal HCFC and HFC trade and to combat illegal trade.	Number of specific meetings held (e.g. border dialogues); Type of support provided
33.	Assist all NOUs to work with Customs to promote the adoption and/or implementation of the 2022 Harmonized System codes or otherwise adopt regional codes, national subcodes or other measures to facilitate the monitoring of individual HFC substances imports and exports.	Number of countries supported. Type of support provided.
34.	Collaborate with interested regional and/or sub-regional organization and national customs authority in identification of existing national tariff system to accommodate individual Harmonized System (HS) code for HFCs under 2027 HS code system	Type of support provided.
35.	Encourage interested NOUs to encourage their customs participation in WCO's Operation Demeter and other targeted enforcement actions.	Number of countries supported. Type of support provided.
36.	Encourage all NOUs to work with Customs brokers on the proper classification of refrigerants and their products, to improve data collection, verification reporting and boarder control.	Type of support provided.
37.	Promote the concept of Green Customs and include related sessions in selected enforcement meetings.	Number of sessions on customs issues in the regional network/thematic meetings
Outcomes		Relevant SDG targets
OUTCOME 5 Key stakeholders and the public enthusiastically support national compliance programmes		☒ Human health is protected (SDG 3) ☒ Ecosystems are healthy (SDG 14 & 15) ☒ Climate is protected (SDG 13) ☐ Food security is improved, and food loss reduced (SDG 2) ☒ Economic competitiveness is maintained (SDG 1, 8 & 9) ☒ Sustainable technologies and practices adopted (SDG 12) ☒ More women enter workforce (SDG 5) ☒ Montreal Protocol objectives achieved through partnerships (SDG 17)
2024 Activities		Indicators
38.	Prepare and disseminate targeted information, communications and educational materials and services to ensure that NOUs, key stakeholders and the public are well informed about priority topics related to the Montreal Protocol through digital and print media.	Number and type of publications, products, tools and services produced
39.	Promote public support for the Montreal Protocol at the regional level through awareness activities agreed by the Regional Network members.	Number and description of regional awareness activities
40.	Outreach Montreal Protocol issues, including gender mainstreaming and SDG linkages, at key international, regional, and national forums including those related to Montreal Protocol and climate.	Number and description of outreach events conducted

41.	Maintain and enhance the OzonAction website (www.unep.org/ozonaction) and OzonAction Meeting Portal (www.ozonactionmeetings.org)	Web statistics confirming growth/activity
42.	Update the online <i>OzonAction Knowledge Maps</i> to provide NOUs and other stakeholders with access to key and recent data to support Montreal Protocol implementation.	Web statistics for <i>OzonAction Knowledge Maps</i> . Number and type of updates
43.	Produce and disseminate the <i>OzoNews</i> e-newsletter on a bi-weekly basis, develop a subscription management system and enhanced functionality, including regular annual review cycle of subscription system.	Number of <i>OzoNews</i> e-newsletter issues produced (both regular and special issues)
44.	Produce and disseminate the <i>OzonAction Scoop</i> on topical subjects three times per year.	Number of <i>OzonAction Scoops</i> produced and disseminated
45.	Encourage and support national celebrations of <i>World Ozone Day</i> on 16 September, including the development of specific materials.	Number of countries celebrating <i>World Ozone Day</i> . Type of support provided
46.	Encourage and support celebrations of <i>World Refrigeration Day (WRD)</i> on 26 June, in cooperation with the WRD Secretariat and refrigeration and air conditioning partners to promote Montreal Protocol objectives to policymakers and the public.	Number of countries celebrating World Refrigeration Day (WRD). Type of support provided
47.	Encourage NOUs and their customs authorities to participate in World Customs Day (WCD) on January 26 to showcase their joint work under the Montreal Protocol to monitor and control trade of controlled substances	Number of countries celebrating World Customs Day (WCD)
48.	Translate prioritised publications and tools into UN languages, depending on regional priorities and available resources.	Number and type of publications and tools translated
49.	Implement a Global Communication Strategy to support compliance with the Montreal Protocol and Kigali Amendment, including gender mainstreaming considerations.	Communication strategy implemented
Outcomes		Relevant SDG targets
Outputs (2024-2026 CAP Strategy)		
OUTCOME 6 Non-ODS, low GWP technology is adopted and used safely, and servicing sector workforce skills are strengthened	- All NOUs and the main servicing sector stakeholders are provided with key information needed to make informed choices related to the refrigeration servicing sector, including up-to-date information about alternative refrigerants, technologies, and best and safe servicing practices. - All NOUs are offered the refrigeration servicing sector training products and tools developed by UNEP and its partners, and an increasing number incorporate them into their national Montreal Protocol activities. - All servicing technicians, master trainers, and other practitioners involved in UNEP-assisted capacity-building activities are assisted to acquire new or updated skills and competencies for minimizing leakages, the sound and safe handling of refrigerants, and maintaining/enhancing energy efficiency of RAC appliances. - Interested national refrigeration training institutes and NOUs are assisted to establish agreements to cooperate on refrigeration servicing sector training and they adopt UNEP-developed training materials. - All NOUs are encouraged and assisted to increase their cooperation with their Technical Vocational Education and Training (TVET) authorities with respect to RAC servicing sector training and certification programs. - All NOUs are provided with information and offered technical and policy assistance for developing national RAC certification programs. - More Article 5 countries consider adopting the Refrigerant Driving License (RDL) global qualification program either to complement their existing certification programme or as an alternative if they do not yet have a certification programme. - More Article 5 countries consider adopting the HFC Outlook Model as a comprehensive tool for	☑ Human health is protected (SDG 3) ☑ Ecosystems are healthy (SDG 14 & 15) ☑ Climate is protected (SDG 13) ☑ Food security is improved, and food loss reduced (SDG 2) ☑ Economic competitiveness is maintained (SDG 1, 8 & 9) ☑ Sustainable technologies and practices adopted (SDG 12) ☑ More women enter workforce (SDG 5) ☑ Montreal Protocol objectives achieved through partnerships (SDG 17)

	modelling and projecting the use of HFCs and alternatives in different consuming sectors and encourage linkage of the model scenarios with the preparation of KIPs. • All NOUs have increased awareness about relevant standards and codes of practice that promote safe handling of flammable, high-pressure and toxic refrigerants, facilitate the introduction of lower-GWP technologies into the market, and promote sound refrigerant management. • All NOUs are encouraged to cooperate with their standards organisations to consider Montreal Protocol issues. • National/regional RAC associations are strengthened, interact regularly with NOUs, and exchange best practices so that they have increased engagement in their countries' national Montreal Protocol activities. • All NOUs are encouraged and assisted to provide increased attention to the food cold chain sector and to strengthen their cooperation with stakeholders in that sector. • All NOUs have increased understanding of the technical and regulatory issues related to HFCs and alternatives used in mobile air conditioning (MAC).	
2024 Activities		Indicators
50.	Provide all NOUs with key information to make informed choices related to the refrigeration servicing sector, including up-to-date information on sound refrigerant management, alternative low- GWP refrigerants, guidelines and standards for their safe and responsible use, information on technologies including not-in-kind, and the installation and assembly sector.	Number and type of information materials developed
51.	Provide all NOUs with the refrigeration servicing sector training products and tools developed by UNEP and its partners.	Type of training products provided
52.	Assist all servicing technicians, master trainers, and other practitioners involved in UNEP-assisted capacity-building activities to acquire new or updated skills and competencies for minimizing leakages, the sound and safe handling of refrigerants, and maintaining/enhancing energy efficiency of RAC appliances.	Type of support provided
53.	Assist interested national refrigeration training institutes and NOUs to establish agreements to cooperate on refrigeration servicing sector training and adopt UNEP-AREA training manual.	Number of national training institutes using the training materials
54.	Assist interested universities to integrate UNEP-ASHRAE University Course-Refrigerant Management for Future Engineers into their engineering curriculum.	Number of universities using the University course
55.	Encourage and assist all NOUs to increase their cooperation with their Technical Vocational Education and Training (TVET) authorities with respect to RAC servicing sector training and certification programs.	Number of NOUs cooperating with their TVET authorities. Type of support provided.
56.	Provide all NOUs with information and technical and policy assistance for developing national RAC certification programs.	Number of NOUs assisted, and type of support provided.
57.	Provide interested NOUs with guidance for the establishment and/or improvement of national certification systems using materials and lessons learned from the development of the Refrigerant Driving License (RDL) global qualification program.	Guidance materials prepared
58.	Encourage interested NOUs to strengthen their national/regional RAC associations, encourage them to interact regularly with their associations, and exchange best practices so that the associations have increased engagement in their countries' national Montreal Protocol activities.	Number of NOUs assisted. Type of support provided
59.	Encourage interested NOUs to provide increased attention to the food cold chain sector and to strengthen their cooperation with stakeholders in that sector.	Type of support provided
60.	Support all NOUs to have an increased understanding of the technical and regulatory issues related to HFCs and alternatives used in mobile air conditioning (MAC).	Nature and type of support provided.
61.	Promote Ozone2Climate roundtables and road shows in interested regions and countries.	Number of activities organised

Outcomes	Outputs (2024-2026 CAP Strategy)	Relevant SDG targets
OUTCOME 7 Energy efficiency is maintained or increased in the RAC sector	- All NOUs are supported to interact with their national energy efficiency policy makers and financial mechanism focal points through Twinning workshops and identify areas of cooperation to promote energy efficiency during the HFC phase down. - All NOUs receive information and have their capacity strengthened to better understand energy efficiency issues related to RAC equipment. - All NOUs receive updated training curricula to teach technicians how to maintain energy efficiency of existing RAC equipment through best installation and servicing practices. - All NOUs are provided with information and assistance to enhance or establish policies or regulations aimed at maintaining and enhancing energy efficiency of existing and new RAC equipment.	☒ Human health is protected (SDG 3) ☒ Ecosystems are healthy (SDG 14 & 15) ☒ Climate is protected (SDG 13) ☒ Food security is improved, and food loss reduced (SDG 2) ☒ Economic competitiveness is maintained (SDG 1, 8 & 9) ☒ Sustainable technologies and practices adopted (SDG 12) ☒ More women enter workforce (SDG 5) ☒ Montreal Protocol objectives achieved through partnerships (SDG 17)
2024 Activities		Indicators
62.	Encourage interested NOUs to interact with their national energy efficiency policy makers and identify areas of cooperation to promote energy efficiency during the HFC phase-down.	Number of NOUs assisted. Type of support provided
63.	Follow up on the recommendations from the 2023-2024 Ozone Officers-Energy Efficiency Policymakers Twinning workshops (Phase I).	Number and type of follow up activities organised
64.	Develop new and/or share existing capacity building materials related to energy efficiency and low GWP refrigerants based on the needs assessments and the outcomes of the twinning workshops.	Number and type of capacity building materials developed
65.	Assist all NOUs to better understand energy efficiency issues related to RAC equipment through information collection of existing information materials and/or development of new materials.	Number and type of information materials developed
66.	Provide all NOUs with updated training curricula to teach technicians how to maintain energy efficiency of existing RAC equipment through best installation and servicing practices.	Training curricula updated to reflect energy efficiency considerations
67.	Provide all interested NOUs with information and assistance to enhance or establish policies or regulations aimed at maintaining and enhancing energy efficiency of existing and new RAC equipment.	Number of NOUs assisted. Type of support provided
Outcomes	Outputs (2024-2026 CAP Strategy)	Relevant SDG targets
OUTCOME 8 Gender issues and approaches are considered and addressed in Montreal Protocol programmes and projects	- All UNEP-implemented Multilateral Fund projects include gender mainstreaming components. - All NOUs receive support to identify the entry point to integrate gender mainstreaming into implementation workstreams of the Montreal Protocol. - All NOUs use Regional Network meetings as a forum to further consider gender mainstreaming in the context of their national Montreal Protocol programmes, projects and activities. - Interested women working in the RAC sector in Article 5 countries are offered networking and mentorship opportunities through the International Network of Women in Cooling (INWIC), and interested countries incorporate those activities into HPMP and KIP projects. - More women in Article 5 countries are attracted to work in the RAC sector as a result of	☒ Human health is protected (SDG 3) ☒ Ecosystems are healthy (SDG 14 & 15) ☒ Climate is protected (SDG 13) ☐ Food security is improved, and food loss reduced (SDG 2) ☐ Economic competitiveness is maintained (SDG 1, 8 & 9) ☐ Sustainable technologies and practices adopted (SDG 12) ☒ More women enter workforce (SDG 5)

	awareness, information and opportunities provided by NOUs and INWIC. All NOUs have enhanced awareness about gender mainstreaming related to Montreal Protocol-related customs activities and encourage their customs authorities to do the same.	☒ Montreal Protocol objectives achieved through partnerships (SDG 17)
2024 Activities		Indicators
68.	Ensure that all UNEP-implemented Multilateral Fund projects include gender mainstreaming components.	Compliance with MLF's Gender Policy is monitored
69.	Assist NOUs to complete gender assessment as required by the Multilateral Fund's Gender Policy by providing gender assessment resources and tools.	Type of gender assessment resources and tools provided.
70.	Assist NOUs to identify the entry point to integrate gender mainstreaming into implementation workstreams of the Montreal Protocol.	Number of countries assisted. Type of support provided
71.	Provide all NOUs with Regional Network meetings to use as a forum to further consider gender mainstreaming in the context of their national Montreal Protocol programmes, projects and activities.	Number of meetings/sessions organised
72.	Offer interested women working in the RAC sector in Article 5 countries networking and mentorship opportunities through the International Network of Women in Cooling (INWIC), and assist interested countries to incorporate those activities into HPMP and KIP projects.	Number of projects that include INWIC activities
73.	Encourage and assist all NOUs to promote the participation and empowerment of women in the RAC sector through awareness raising, information and training provided by CAP.	Type of assistance provided
74.	Assist Article 5 countries to reflect gender considerations in their Customs work related to the Montreal Protocol.	Number of countries assisted. Type of support provided
Outcomes	Outputs (2024-2026 CAP Strategy)	Relevant SDG targets
OVERARCHING Article 5 countries meet their commitments through effective and timely implementation of Multilateral Fund projects	<i>HCFC phase out</i> - All Article 5 countries with ongoing HPMP Stages or tranches approved for UNEP implementation are assisted to implement them in a timely and effective manner. - All Article 5 countries with HPMP verification projects approved for UNEP implementation have their HCFC consumption verified in a timely and effective manner, and UNEP helps them implement the recommendations in the verification reports. - All Article 5 countries requesting UNEP assistance to prepare and submit new HPMP Stages or tranches are supported to do so. - All Article 5 countries requesting UNEP assistance to prepare and submit additional activities in their HPMPs under the special funding window to maintain energy efficiency in the refrigeration servicing sector under Executive Committee decision 89/6(b) are supported to do so. <i>HFC phase down</i> - All Article 5 countries requesting UNEP assistance to prepare and submit KIPs are supported to do so. - All Article 5 countries with KIP tranches approved for UNEP implementation are assisted to implement them in a timely and effective manner. - All Article 5 countries requesting UNEP assistance to prepare and submit Pilot projects to maintain and/or enhance energy efficiency of replacement technologies and equipment in the	☒ Human health is protected (SDG 3) ☒ Ecosystems are healthy (SDG 14 & 15) ☒ Climate is protected (SDG 13) ☐ Food security is improved, and food loss reduced (SDG 2) ☐ Economic competitiveness is maintained (SDG 1, 8 & 9) ☐ Sustainable technologies and practices adopted (SDG 12) ☐ More women enter workforce (SDG 5) ☒ Montreal Protocol objectives achieved through partnerships (SDG 17)

	context of HFC phase-down under Executive Committee Decision 91/65 are supported to do so. <i>Unwanted controlled substances</i> All Article 5 countries requesting UNEP assistance to prepare and submit projects under the funding window for an inventory of banks of used or unwanted controlled substances and a plan for the collection, transport, and disposal of such substances under Executive Committee Decision 91/66 are supported to do so.	
2024 Activities		Indicators
<i>HCFC phase out</i>		
75.	Support all Article 5 countries requesting UNEP assistance to prepare and submit new HPMP stages or tranches.	Number of HPMP Stages/tranches approved
76.	Assist all Article 5 countries with HPMP tranches approved for UNEP implementation to implement them in a timely and effective manner.	Number of HPMP tranches implemented
77.	Assist all Article 5 countries with HPMP verification projects approved for UNEP implementation have their HCFC consumption verified in a timely and effective manner, and help them implement the recommendations in the verification reports.	Number of HPMP verification projects implemented
<i>HFC phase down</i>		
78.	Support all Article 5 countries requesting UNEP assistance to prepare and submit KIPs.	Number of KIP projects approved
79.	Assist all Article 5 countries with KIP tranches approved for UNEP implementation to implement them in a timely and effective manner.	Number of HPMP Stages/tranches implemented
<i>Unwanted controlled substances</i>		
80.	Support all Article 5 countries requesting UNEP assistance to prepare and submit projects under the funding window for an inventory of banks of used or unwanted controlled substances and a plan for the collection, transport, and disposal of such substances under Executive Committee Decision 91/66.	Number of countries with funding requests for inventory of banks of used and unwanted controlled substances
81.	Assist all Article 5 countries with ODS disposal project approved for UNEP implementation to implement them in a timely and effective manner.	Number of inventory of banks of used and unwanted controlled substances implemented
<i>Energy efficiency projects</i>		
82.	Support all LVCs requesting UNEP assistance to prepare and submit additional activities in their HPMPs under the special funding window to maintain energy efficiency in the refrigeration servicing sector under Executive Committee decision 89/6(b).	Number of requests for additional activities in line with decision 89/6 (b)
83.	Support all Article 5 countries requesting UNEP assistance to prepare and submit Pilot projects to maintain and/or enhance energy efficiency of replacement technologies and equipment in the context of HFC phase-down under Executive Committee Decision 91/65.	Number of requests for pilot projects in line with decision 91/65
84.	Support all Article 5 countries requesting UNEP assistance to prepare and submit energy efficiency related projects in the context of HFC phase-down under Executive Committee Decision 94/60 and any future decisions as adopted at ExCom-95 and ExCom-96.	Number of requests of EE related projects under new funding windows
85.	Assist all Article 5 countries with energy efficiency projects approved for UNEP implementation to implement them in a timely and effective manner.	Number of energy efficiency projects implemented
ASSUMPTIONS		

- Continued high-level political commitment by all Montreal Protocol Parties
- Stable political and economic conditions in Article 5 countries
- Operational National Ozone Units with dedicated, skilled and empowered staff at appropriate level
- Government commitment in Article 5 countries to approve and enforce Montreal Protocol-related legislation, regulations and policies
- Political will in Article 5 countries to ratify Kigali Amendment
- Controls to monitor and control trade in controlled substances are in place and effective/can be implemented
- Constructive cross-border cooperation between Customs and enforcement agencies in neighbouring countries
- Skilled workforce for the servicing of refrigeration and air conditioning equipment, particularly for 'longer term' alternatives
- Climate friendly and energy efficient alternatives are commercially available and affordable in Article 5 country markets
- Cooperation and active participation of other stakeholders
- Assistance and support provided by CAP is sufficient during the COVID-19 period, even when face to face support is not possible

RISKS

- Unstable political and economic situations
- Natural/manmade disasters
- Uncertainties in security situations
- Frequent turn-over of Ozone Officers or changes in national administrations
- Limited human and/organisational capacities of some NOUs
- Delays due to administrative, financial, or legal procedures by Implementing Agency and/or country administrations
- Delay or incomplete progress reporting by some countries due to the long process of data verification at national level (particularly in countries with political instability)
- Unstable currency markets fluctuating during project implementation
- Unreliability of information technology in some developing countries; access to email and prompt communication very limited in some countries
- Increased trend of introducing high-GWP alternatives due to lower prices and commercial availability compared to low/lower GWP options particularly for RAC
- Technology and economic related concerns for high-ambient operating conditions
- Difficulties related to harmonising standards and codes at the regional level
- Weak infrastructure of the RAC servicing sector in most developing countries
- RAC servicing sector and Customs not considered attractive professions for young people particularly young women

Annex 2 – Implementation of UNEP-assisted Article 5 country projects in 2025

Key :

* = All UNEP's projects (both as lead and cooperating Agency) are included in the table

● – UNEP is lead agency

● – UNEP is cooperating agency

● – KIPs as planned in the 2024-2026 Business Plan

● – Energy Efficiency Twinning project

● – Energy Efficiency projects in the servicing sector (decision 89/6)

● – Pilot projects on energy efficiency (decision 91/65)

● – Regional projects for PICs (counted as one)

Country	Project Services							
	IS project	HPMP PRP*	HPMP IMPL (Stage I, II, III)	HPMP VER	Energy* Efficiency	KIP PRP*	KIP IMPL*	Inventory of banks and disposal plans
Afghanistan	(●)		(●)					
Albania		●	●				●	●
Algeria	●							
Angola	●							
Antigua and Barbuda	●	●	●		●			
Argentina								
Armenia			●		●		●	●
Bahamas	●		●	●	●			●

Country	Project Services							
	IS project	HPMP PRP*	HPMP IMPL (Stage I, II, III)	HPMP VER	Energy* Efficiency	KIP PRP*	KIP IMPL*	Inventory of banks and disposal plans
Bahrain	●	●	●					
Bangladesh			●			●	●	
Barbados	●		●	●	●			●
Belize	●		●		●	●		●
Benin	●		●	●			●	
Bhutan	●		●	●	●	●	●	●
Bolivia	●		●		●		●	●
Bosnia and Herzegovina								
Botswana	●		●		●	●	●	
Brazil								
Brunei Darussalam	●		●	●	●	●		●
Burkina Faso	●		●	●				
Burundi	●		●		●	●	●	
Cambodia	●		●	●	●		●	●
Cameroon	●							
Cape Verde	●		●	●	●	●	●	
Central African Republic	(●)	(●)	●		●			
Chad	●		●	●	●	●	●	

Country	Project Services							
	IS project	HPMP PRP*	HPMP IMPL (Stage I, II, III)	HPMP VER	Energy* Efficiency	KIP PRP*	KIP IMPL*	Inventory of banks and disposal plans
Chile			●				●	
China			●		●			
Colombia								
Comoros	●		●	●	●	●	●	
Congo	●	●	●		●	●	●	
Congo DR	●		●	●	●			
Cook Islands	●		●		●	●	●	●
Costa Rica								●
Côte d'Ivoire	●		●			●	●	
Cuba								
Djibouti	●	●	●	●	●	●		
Dominica	●	●	●	●	●			
Dominican Republic	●		●				●	●
Ecuador								
Egypt		●	●					
El Salvador	●		●		●			●
Equatorial Guinea	●	●	●		●	●		
Eritrea	●		●	●	●	●	●	●
Eswatini, Kingdom of	●		●		●		●	●

Country	Project Services							
	IS project	HPMP PRP*	HPMP IMPL (Stage I, II, III)	HPMP VER	Energy* Efficiency	KIP PRP*	KIP IMPL*	Inventory of banks and disposal plans
Ethiopia	●		●	●	●	●	●	
Fiji	●		●			●	●	
Gabon	●		●	●	●	●	●	
Gambia	●		●		●		●	●
Georgia						●	●	
Ghana			●				●	
Global					●			
Grenada	●		●	●			●	●
Guatemala	●		●		● ●	●		●
Guinea	●		●				●	
Guinea-Bissau	●	●	●	●	●	●	●	
Guyana	●		●	●		●		●
Haiti			●					
Honduras	●		●		●		●	●
India			●			●		
Indonesia								
Iran, Islamic Republic of		●	●					
Iraq	●		●			●		

Country	Project Services							
	IS project	HPMP PRP*	HPMP IMPL (Stage I, II, III)	HPMP VER	Energy* Efficiency	KIP PRP*	KIP IMPL*	Inventory of banks and disposal plans
Jamaica	●							
Jordan								
Kenya	●					●		
Kiribati	●		●		●	●	●	●
Korea, DPR	(●)							
Kuwait	●	●	●					
Kyrgyzstan	●		(●) completed		● ●		●	●
Lao PDR	●		●		●		●	●
Lebanon								
Lesotho	●					●	●	●
Liberia	●		●	●				
Libya								
North Macedonia								
Madagascar	●		●	●		●		
Malawi	●		●		●		●	●
Malaysia								
Maldives	●		(●) completed		●	●	●	●
Mali	●	●	●		●	●		

Country	Project Services							
	IS project	HPMP PRP*	HPMP IMPL (Stage I, II, III)	HPMP VER	Energy* Efficiency	KIP PRP*	KIP IMPL*	Inventory of banks and disposal plans
Marshall Islands	●		●		●	●	●	●
Mauritania	●	●	●			●		
Mauritius	●							
Mexico			●				●	
Micronesia, Federated States of	●		●		●	●	●	●
Moldova, Republic of	●		●		●	●	●	●
Mongolia	●		●		●	●	●	●
Montenegro								
Morocco	●							
Mozambique	●		●	●	●		●	
Myanmar	(●)		(●)		(●)	(●)		
Namibia	●					●	●	
Nauru	●		●		●	●	●	●
Nepal	●		●		●	●		●
Nicaragua	●		●	●	● ●		●	●
Niger	●		●		●		●	
Nigeria							●	●

Country	Project Services							
	IS project	HPMP PRP*	HPMP IMPL (Stage I, II, III)	HPMP VER	Energy* Efficiency	KIP PRP*	KIP IMPL*	Inventory of banks and disposal plans
Niue	●		●		●	●	●	●
Oman			●			●		
Pakistan			●			●		
Palau	●		●	●	●	●	●	●
Panama								
Papua New Guinea								
Paraguay	●		●	●	●			●
Peru	●		●		●			
Philippines	●							
Qatar	●	●	●			●		
Rwanda	●		●	●	●	●	●	
Saint Kitts and Nevis	●	●	●		●			
Saint Lucia	●		●		●	●	●	●
Saint Vincent and the Grenadines	●		●	●	●	●		
Samoa	●		●	●	●	●	●	●
Sao Tome and Principe	●		●	●	●		●	
Saudi Arabia	●		●					
Senegal	●	●	●				●	

Country	Project Services							
	IS project	HPMP PRP*	HPMP IMPL (Stage I, II, III)	HPMP VER	Energy* Efficiency	KIP PRP*	KIP IMPL*	Inventory of banks and disposal plans
Serbia		●	●			●	●	●
Seychelles	●					●	●	
Sierra Leone	●		●	●	●		●	●
Singapore								
Solomon Islands	●		●	●	●	●	●	●
Somalia	●						●	●
South Africa	●							
South Sudan	●	●	●		●	●		
Sri Lanka			●			●	●	●
Sudan	●					●		
Suriname	●		●		●			
Syrian Arab Republic		●	●			●	●	
Tanzania, United Republic of	●		●	●		●	●	
Thailand								
Timor-Leste	●	●	●	●	●	●		●
Togo	●		●	●			●	
Tonga	●		●	●	●	●	●	●
Trinidad and Tobago								

Country	Project Services							
	IS project	HPMP PRP*	HPMP IMPL (Stage I, II, III)	HPMP VER	Energy* Efficiency	KIP PRP*	KIP IMPL*	Inventory of banks and disposal plans
Tunisia			•					
Türkiye								
Turkmenistan								
Tuvalu	•		•		•	•	•	•
Uganda	•		•	•	•		•	•
United Arab Emirates								
Uruguay								
Vanuatu	•		•		•	•	•	•
Venezuela, Bolivarian Republic of								
Viet Nam	•						•	
Yemen	•		•					•
Zambia	•		•		•		•	•
Zimbabwe	•		•		•	•	•	•
Total	103	21	102	36	72	50	58	41

Annex 3 – Country-specific CAP services proposed for 2025

REGIONAL NETWORKS OF OZONE OFFICERS

NETWORK AND THEMATIC MEETINGS

The UN Environment Programme (UNEP) provides CAP support to enable all National Ozone Units (NOUs) to participate in the meetings of the Regional Networks of Ozone Officers, and to specific NOUs for thematic meetings, depending on the focus of those meetings. CAP also provides support for NOUs and specific stakeholders for workshops. In 2025, UNEP anticipates providing services in this category to the following Article 5 (and CEIT) countries (noting that the topics of some thematic meetings will be defined later):

<u><i>Africa – Anglophone</i></u> • Network meetings - All 28 countries in the region. • Workshop for Refrigeration and Air-conditioning Technicians on safety of flammable refrigerants. • Follow up Workshop for Female Refrigeration and Air-conditioning (RAC) Technicians on Good Refrigeration Practices - All 28 countries in the region. • Thematic workshop for KIP preparation and implementation. -Countries with KIP projects <u><i>Africa – Francophone</i></u> • Network meetings – All 26 countries in the region • Other meetings - Thematic meeting on KIP implementation • Other meetings - -Thematic meeting on certification for selected countries • Other meetings - Training for selected new NOO <u><i>Caribbean</i></u> • Network meetings -All 14 countries in the Region • Other meetings – Thematic/Twinning Meeting with NOO and Customs Officials to re-engage for the joint implementation of obligations under the Kigali Amendment and guard against illegal trade - All 14 Countries in the Region <u><i>Europe and Central Asia</i></u> • Network meetings – 1 or 2 meetings to discuss compliance matters, to brief countries on the ExCom and MOP decisions, to focus on KIP implementation and supporting legislative / policy measures, preparation of inventories of banks of used or unwanted controlled substances, and activities related to energy-efficiency, involvement of RAC associations / experts - 11 ECA countries. • Other meetings – 3 to 4 quarterly online meetings on priority topics as expressed by the countries in the interviews - 11 ECA countries <u><i>Latin America</i></u>	• Other meetings – Workshop on ODS banks and management strategies – All 19 countries of the region. <u><i>South Asia</i></u> • Network meetings - All 13 countries in the region • Other meetings – Thematic Meeting: Training of New NOOs - All 13 countries in the region <u><i>South East Asia</i></u> • Network meetings - All 11 countries in the region • Other meetings – Border Dialogue of the Mekhong River Sub-region (Cambodia, Lao PDR, Thailand and Vietnam) • Other meetings – Thematic Workshop on Enhancing Implementation of the Montreal Protocol in Cooling and Food Cold Chain Sector – all 11 countries in the region. <u><i>Pacific Island Countries</i></u> • Network meetings - All 14 countries in the region • Other meetings – Thematic Workshop on Implementation and Synergies of KIP Stage I, First Tranche, HPMP Stage II, Second Tranche, Energy Efficiency under Decision 89/6 and Inventories of Banks of Used or Unwanted Controlled Substances – 13 countries (Cook Islands, Fiji, Kiribati, Marshall Islands, Micronesia, Nauru, Niue, Palau, Samoa, Solomon Islands, Tonga, Tuvalu and Vanuatu) <u><i>West Asia</i></u> • Network meetings – Two network meetings for 11 countries (plus one observer country) in the region. • Other meetings - Thematic Meeting on KA amendment implementation and required preparedness including HFC baseline calculation. Quota and Licensing system for HFC Control and reporting. • Other meetings – Training workshop for NOU staff; and a workshop on technical and policy considerations of new sectors under KIPs
---	--

• Network meetings - two network/thematic meetings with a focus on HFC freeze compliance, and HCFC 67.5% reduction, gender mainstreaming, and energy efficiency - All 19 countries in the region.	
---	--

COMPLIANCE ASSISTANCE SERVICES

COMPLIANCE

UNEP provides compliance monitoring through CAP to NOUs upon request or identified need to help the Ozone Officers ensure that national compliance commitments under the Montreal Protocol are met in a timely and efficient manner. In 2025, UNEP anticipates providing compliance related services in this category to the following Article 5 (and CEIT) countries:

<u><i>Africa – Anglophone</i></u> • Compliance monitoring– All 28 countries in the region. • Focused assistance - HFC growth and assessment of 2024 compliance HFC freeze– All countries that ratified Kigali Amendment in the region. • Focused assistance – Monitoring of development of Licensing systems for HFCs – all countries that have ratified Kigali Amendment • Focused assistance – to ratify the Kigali Amendment (Libya, South Sudan, Sudan) • Focused Assistance - Establishment of HFC quota system - All Group 1 countries that have ratified the Kigali Amendment • Focused assistance – Follow-up on timely data reporting -All countries <u><i>Africa – Francophone</i></u> • Compliance monitoring– All 26 countries in the region. <u><i>Caribbean</i></u> • Compliance monitoring – All 14 countries in the region. • Focused assistance – Monitoring and follow-up on actions regarding HPMP implementation and compliance matters: 6 countries - Antigua and Barbuda, Dominica, St. Kitts and Nevis, Suriname, Saint Vincent and the Grenadines, Guyana • Focused assistance – HFC LQS monitoring for Countries that have ratified the Kigali Amendment and monitoring and following-up with Countries that have not yet ratified (7 Countries – Antigua and Barbuda, Dominica, Guyana, Haiti, Jamaica St. Kitts and Nevis and Suriname) <u><i>Europe and Central Asia</i></u> • Compliance monitoring - Close monitoring and follow-up on timely data reporting, and operational	<u><i>South Asia</i></u> • Compliance monitoring – All 13 countries in the network • Focused assistance – Follow-up on timely data reporting and preparation for HFC baseline, freeze, and phase-down for Group 1 and Group 2 countries; Monitoring of implementation or development of Licensing and Quota systems for HFCs for Group 1 and Group 2 countries; Border dialogue on ODS/HFC trade – China, Mongolia; HFC Baseline assistance and any revision of Article 7 data; Ratification of the Kigali Amendment (Nepal, Afghanistan, Iran, Pakistan); Monitor DPR Korea to implement the Action Plan for Return to Compliance. <u><i>South East Asia</i></u> • Compliance monitoring – All 11 countries in the region • Focused assistance – Allocation and monitoring of 2025 HFC quota in tonnes CO₂ equivalent – all 11 countries in the region • Focused assistance – Ratification of the Kigali Amendment – Brunei Darussalam and Timor Leste <u><i>Pacific Island Countries</i></u> • Compliance monitoring – All 14 countries in the region • Focused assistance – Allocation and monitoring of 2025 HFC quota in tonnes CO₂ equivalent – all 14 countries in the region • Focused assistance – Ratification of the Kigali Amendment - Papua New Guinea • Focused assistance – Support to countries to understand the process and information required for revision of HFC Baseline consumption – 7 countries (Cook Islands, Kiribati, Marshall Islands, Nauru, Niue, Tuvalu and Vanuatu) <u><i>West Asia</i></u> • Compliance monitoring – All 11 countries (plus one observer country) in the region.
--	---

licensing and quota system including HFCs - 11 ECA countries. Focused assistance – On timely data reporting, licensing and quota systems and meeting the phase-out / phase-down provisions of the Montreal Protocol as needed and upon request – 11 ECA countries. <u>Latin America</u> - Compliance monitoring – All 19 countries in the region. - Focused assistance – Bolivia, El Salvador, Guatemala, Honduras	- Focused assistance – Ratify the Kigali Amendment for the remaining countries in the region. - Focused assistance – Monitoring enforcement of HFCs Licensing and quota in tonnes CO2 eq. and preparation for HFCs freeze and Phase down accordingly. - Focused assistance – Assist post conflict countries (Iraq, Yemen and Syria in addition to Palestine) to strengthen NOU functioning, when possible
--	---

POLICY SUPPORT

UNEP provides CAP support to NOUs upon request or identified need to help the Ozone Officers design, review, modify and/or enforce national legislation and policies needed to comply with the Montreal Protocol. UNEP will keep monitoring the status of ratification of the Kigali Amendment and supporting the ratification process for those countries that have not ratified it. In 2025, UNEP anticipates providing services in this category to the following Article 5 (and CEIT) countries:

<u>Africa – Anglophone</u> - Policy Support– enhancing gender mainstreaming in the implementation of the Montreal Protocol - All 28 countries in the region. - Continued support on integrated approach to strengthen enforcement of licensing system – All 28 countries in the region - Policy Support –to achieve upcoming targets including sustainable total HCFCs phase out in 2030 - All 28 countries <u>Africa – Francophone</u> - Policy Support – All 26 countries in the region. Support the adoption of policy measures, including gender mainstreaming, to help countries sustain the HFC freeze in 2025 through Network meetings or ad-hoc requests. - Focused Assistance - Encourage countries (Mauritania, Madagascar, Algeria and CAR) to ratify the KA. <u>Caribbean</u> - Policy Support – Continue to promote gender mainstreaming in the implementation of the Montreal Protocol - All 14 countries in the region - Policy support – Development of comprehensive HFC LQS and supporting measures for the HFC phase down – 7 - Countries in the Region <u>Europe and Central Asia</u> - Policy Support – Monitoring the establishment of legislative / policy measures including HFC-related measures (overview tables indicating existing,	<u>South East Asia</u> - Policy Support – enhancing gender mainstreaming into the implementation of the Montreal Protocol - All 11 countries in the region - Focused Assistance - Reviewing national legislative framework and providing support to countries in exploring timeline and options to include provisions to ban the import of R-410A air-conditioner – 2 countries (Cambodia and Lao PDR) - Focused Assistance – Assisting Lao PDR to include consideration of refrigerant with GWP limit as part of Initial Environmental Evaluation (IEE) and Environmental Impact Assessment (EIA). <u>Pacific Island Countries</u> - Policy Support – enhancing gender mainstreaming into the implementation of the Montreal Protocol - All 14 countries in the region - Focused Assistance - Reviewing national legislative framework and providing support to countries in exploring timelines and options to include provisions to ban the import of R-410A air-conditioner and R-134a domestic refrigerator – 13 countries (Cook Islands, Fiji, Kiribati, Marshall Islands, Micronesia, Nauru, Niue, Palau, Samoa, Solomon Islands, Tonga, Tuvalu and Vanuatu) - Focused Assistance – Enhancing public procurement/foreign aid policy and building code to include consideration on energy efficiency and GWP of refrigerant – 12 countries (Cook Islands, Kiribati, Marshall Islands, Micronesia, Nauru, Niue, Palau, Samoa, Solomon Islands, Tonga, Tuvalu and Vanuatu)
---	--

planned and not planned measures) – 11 ECA countries. • Focused Assistance – Supporting the adoption of legislative / policy measures as part of HPMPs / KIPs where UNEP is lead or cooperating agency – 6 ECA countries (Albania, Armenia, Georgia, Kyrgyzstan, Moldova, Serbia). <u>Latin America</u> • Policy Support – All 19 countries in the region. Support the adoption of policy measures, including gender mainstreaming, to assist countries sustain the HFC freeze in 2025 and the reduction of 67.5% of HCFCs through the Network meetings or ad-hoc requests. • Focused Assistance – Bolivia, El Salvador, Honduras, Nicaragua. <u>South Asia</u> • Policy Support – Strengthening the legal and policy framework for HFC phase down, while sustaining 67.5% HCFC phase-out - All 13 countries in the region • Focused Assistance - Development of HFC phase-down policy in servicing sector (Bhutan, Maldives, Bangladesh, Sri Lanka, Mongolia)	• Focused Assistance - Reviewing national legislative framework and providing support to countries in exploring option to ban the registration of R-404A fisheries vessels – 6 countries (Fiji, Marshall Islands, Micronesia, Solomon Islands, Tonga and Vanuatu) <u>West Asia</u> • Policy Support – Strengthening the legal and policy framework for HFC phase down, while sustaining HCFC phase-out to achieve upcoming Phase Out/down targets - All 11 countries (plus one observer country) in the region • Focused Assistance - Supporting the development and adoption of legislative / policy measures as part of HPMPs / KIPs where UNEP is lead or cooperating agency. • Focused Assistance - Enhancing gender mainstreaming in the implementation of the Montreal Protocol • Focused Assistance - Targeted support for enhancing collaboration between NOUs and National Energy Efficiency bodies for sound transitioning to suitable and available alternatives - All 11 Countries in the Region
---	--

TECHNICAL ASSISTANCE

UNEP provides CAP support to NOUs, the refrigeration and air conditioning sector, Customs, and other industry and government stakeholders with technical support for specific issues (e.g. technology, refrigerant management, standards, certification, safety, energy efficiency, new sectors such as MAC and firefighting, used or unwanted controlled substances, etc.) upon request. In 2025, UNEP anticipates providing services in this category to the following Article 5 (and CEIT) countries:

<u>Africa – Anglophone</u> • Technical Assistance - Continued support on adoption of standards, new technology awareness, safety, energy efficiency awareness - All 28 countries in the region • Technical Assistance - support certification of female technicians and promote gender mainstreaming – All 28 countries. <u>Africa – Francophone</u> • Technical Assistance - Continued support on adoption of standards, new technology awareness, safety, energy efficiency awareness - All 26 countries in the region • Focused Assistance - Promote certification of RAC experts for selected countries. <u>Caribbean</u>	• Focused Assistance – Facilitate discussions and development of projects that include refrigerant management, in particular leak management, including preventative maintenance, repair, practice, standards, trainings, and knowledge products such as tools and calculators for consumer savings/benefits. • Focused Assistance – Development/Implementation of Energy Efficiency projects under Decision 89/6 for Bhutan, Mongolia, Maldives, & Nepal • Focused Assistance – Development of inventory of Banks projects under Decision 90/49 for Sri Lanka, Bhutan, Mongolia, Maldives, & Nepal <u>South East Asia</u> • Technical Assistance – Identification of methodology for determination of inventories of banks of controlled substances under the Montreal Protocol and business model - All 11 countries in the region
--	---

• Technical Assistance – Monitor the system for 2024 freeze control - All countries that have ratified the Kigali Amendment • Technical Assistance - Development and or identification of and Dissemination of appropriate Low GWP, Energy Efficient Standards for the RSS – All 14 Countries in the Region • Technical Assistance – Support countries with preparing projects proposals under the MLFS’ additional funding windows (Energy Efficiency and ODS Waste Disposal) – 8 Countries in the Region • Focused Assistance – Support for Countries to participate in UNEP-ASHRE Connect – All 14 Countries • Focused Assistance – Preparation of Factsheets where needed to disseminate technical guidelines to NOUs – All 14 Countries in the Region <u>Europe and Central Asia</u> • Technical Assistance - Sharing of technical information during ECA meetings, dissemination of technology information and invitations to technical webinars and international conferences, organization of technology roundtable and exhibition as part of SMEITS/KGH congress in Belgrade and encouraging training on the safe use of alternative technologies - 11 ECA countries. • Focused Assistance – Strengthening women’s role in the RAC sector as part of network meetings and project implementation - 11 ECA countries. <u>Latin America</u> • Technical Assistance - Technical assistance in technology, refrigerant management, standards, certification, safety, energy efficiency, MAC, and banks of unwanted controlled substances. • Focused Assistance - Bolivia, Costa Rica, the Dominican Republic, El Salvador, Guatemala, Honduras, Nicaragua, Paraguay, and Peru. <u>South Asia</u> • Technical Assistance - Continued support on adoption of standards, new technology awareness, safety, refrigerant management, technician certification, energy efficiency awareness - All 13 countries in the region • Focused Assistance - Support for O2C Technology Roadshow and Roundtables, support to China, India, Pakistan, Nepal, Bhutan, Mongolia on integration of GSP into TVET.	• Focused Assistance – Enhancing the National Minimum Energy Performance Standard and Labelling and Product Registration System to include information on type of refrigerant – 4 countries (Brunei Darussalam, Cambodia, Lao PDR and Timor Leste) • Focused Assistance – Integration of energy efficiency module in the existing good servicing practices training and assessment – 4 countries (Brunei Darussalam, Cambodia, Lao PDR and Timor Leste) • Focused Assistance - Assisting countries on the establishment of competency-based certification and support countries to organize National Training of Master Assessors on Competency-based Assessment - 4 countries (Cambodia, Lao PDR, Timor Leste and Vietnam). • Focused Assistance – Development of safety standards on flammable refrigerant – 1 country (Lao PDR) <u>Pacific Island Countries</u> • Technical Assistance – Identification of methodology for determination of inventories of banks of controlled substances under the Montreal Protocol and business model - All 14 countries in the region • Technical Assistance – Enhancing the Regional Minimum Energy Performance Standard and Labelling and Product Registration System with information on type of refrigerant – All 14 countries in the region • Technical Assistance – Integration of energy efficiency module in the existing good servicing practices training and assessment – All 14 countries in the region • Focused Assistance - Regional Training of Master Assessors on Competency-based Assessment for the Pacific Island Countries - 9 countries (Cook Islands, Fiji, Kiribati, Micronesia, Palau, Samoa, Solomon Islands, Tonga and Vanuatu) • Focused Assistance - Technical options for management of HCFC-22 in the fisheries sector for PIC (Solomon Islands, Vanuatu, Tuvalu, Kiribati, Micronesia and Marshall Islands) <u>West Asia</u> • Technical Assistance - Continued support on technical assistance in technology, refrigerant management, standards, RAC training and certification, safety, energy efficiency, MAC, and management of unwanted controlled substances - All 11 countries • Technical Assistance - Enhance energy efficiency of RAC appliance and safety in handling of flammable refrigerant in the context of HCFC phase-out / HFC phase-down – all 11 countries • Focused Assistance – Enhance the national capacities on Life Management of Refrigerants and combating illegal trade
---	---

DATA REPORTING

UNEP provides CAP assistance to Ozone Officers to help them comply with data reporting requirements under Article 7 of the Montreal Protocol and Country Programme data under the Multilateral Fund for all substances controlled under the Protocol. CAP also provides support to NOUs upon request for support with responding to Implementation Committee requests. In 2025, UNEP anticipates providing services in this category to the following Article 5 (and CEIT) countries:

Africa – Anglophone

- Data Reporting Assistance - Reminder on timely submission of CP and Article 7 data reporting using accurate template and OS online reporting tool - All 28 countries in the region
- Focused Assistance – Review the draft CP and Article 7 data reporting for countries where there are new ozone officers- (Ethiopia, Ghana, Namibia, Rwanda, Somalia, Uganda)

Africa – Francophone

- Data Reporting Assistance - Reminder on timely submission of CP and Article 7 data reporting using accurate template and OS online reporting tool
- Focused Assistance – Implementation of an early warning tool to alert countries to report on time.

Caribbean

- Data Reporting Assistance - Circulate reminder on timely submission of CP and Article 7 data reporting using accurate templates and or OS / MLFS online reporting tools - All 14 Countries in the Region
- Focused Assistance – Organization and delivery of training on the MLFS Country Programme Data Reporting System, in collaboration with the MLFS – All 14 Countries in the Region
- Focused Assistance - Review Draft CP and A7 Data Reports submitted to UNEP CAP – Upon Request by relevant countries

Europe and Central Asia

- Data Reporting Assistance - Encouraging timely reporting of Article 7 and Country Programme data, cross-checking of data from different sources, promoting legislative / policy measures supporting the collection of reliable trade data e.g. mandatory reporting by importers/wholesalers/equipment operators or mandatory equipment logbooks - 11 ECA countries.
- Focused Assistance – Supporting data reporting through follow-up, data analysis, query response as needed and upon request - 11 ECA countries.

Latin America

- Data Reporting Assistance - Ensure timely and accurate CP and Article 7 data reporting - All 19 countries in the region.

South Asia

- Data Reporting Assistance - Reminder on timely submission of CP and Article 7 data reporting using accurate template and OS online reporting tool - All 13 countries in the region
- Focused Assistance - Review the draft CP and Article 7 data reporting (Bhutan, Maldives, Mongolia, Nepal) and any other countries that request UNEP review.

South East Asia

- Data Reporting Assistance - Reminder on timely submission of CP and Article 7 data reporting using accurate template and OS online reporting tool - All 11 countries in the region
- Focused Assistance – Review the draft CP and Article 6 data reporting (Brunei Darussalam, Cambodia, Lao PDR, Philippines, Timor Leste and Vietnam)

Pacific Island Countries

- Data Reporting Assistance - reminder on timely submission of CP and Article 7 data reporting using accurate template and OS online reporting tool - All 14 countries in the region
- Focused Assistance – Review the draft CP and Article 13 data reporting (Cook Islands, Fiji, Kiribati, Micronesia, Marshall Islands, Nauru, Niue, Palau, Samoa, Solomon Islands, Tonga, Tuvalu and Vanuatu)

West Asia

- Data Reporting Assistance – Encouraging and support for timely and accurate collection and submission of Country Programme and Article 7 data including review and analysis of the raw data - All 12 countries including accurate and timely data reporting of HFCs (Bahrain, Lebanon, Jordan, Syria and UAE).
- Focused Assistance – Training for effective use of the Online Reporting System (ORS) and MLFS Online Reporting tools - all countries

- | | |
|---|--|
| <ul style="list-style-type: none"> • Focused Assistance - Bolivia, El Salvador, Honduras, Nicaragua, Peru. | |
|---|--|

MONITORING THE TRADE OF CONTROLLED SUBSTANCES

UNEP provides CAP assistance to support NOUs, Customs and enforcement officers in their work to implement their national licensing and quota systems for substances controlled under the Montreal Protocol, to detect and prevent illegal trade in these chemicals, and to facilitate the legal trade. In 2025, UNEP anticipates providing services in this category to the following Article 5 (and CEIT) countries:

<u><i>Africa – Anglophone</i></u> • Monitoring the trade of controlled substances assistance – Encourage the use of iPIC to provide input for the iPIC statistics – All 28 countries • Capacity building for customs brokers and importers to ensure accurate declaration of commodities - All 28 countries in the region. <u><i>Africa – Francophone</i></u> • Monitoring the trade of controlled substances assistance – promotion of data reconciliation of ODS/HFC trade data – All 26 countries in the region • Focused assistance - Promotion of WCO new HS codes • Focused assistance - Encourage border dialogues. <u><i>Caribbean</i></u> • Monitoring the trade of controlled substances assistance – Respond to iPIC queries between Countries and iPIC – All 14 Countries in the Region • Monitoring the trade of controlled substances assistance – promoting the use of iPIC - All 14 Countries in the Region • Focused assistance – Organize and deliver a thematic meeting or workshop to enhance cooperation between Customs Officers and NOUs in the Region - All 14 Countries in the Region <u><i>Europe and Central Asia</i></u> • Monitoring the trade of controlled substances assistance – Encouraging countries issue import quotas well in advance, to issue import licenses per shipment, to apply iPIC to all shipments of controlled substances, to report cases of illegal trade to the Ozone Secretariat, to analyse discrepancies of reported trade data, to cooperate with and train relevant stakeholders (customs, inspectors, importers, wholesalers), to encourage regional cooperation, to share information and intelligence related to illegal trade/seizures – 11 ECA countries. • Focused assistance – Assisting countries on any of the above topics through query response as needed and upon request - 11 ECA countries.	<u><i>South Asia</i></u> • Monitoring the trade of controlled substances assistance – promotion of data reconciliation of ODS/HFC trade data – All 13 countries in the region • Focused assistance – Promoting and facilitating iPIC mechanism - All 13 countries in the region - Assist iPIC requests and contact information for countries that request assistance. • Focused assistance: Strengthening risk profiling for HFC control and establishment of post-clearance audit mechanism –All 13 countries in the region <u><i>South East Asia</i></u> • Monitoring the trade of controlled substances assistance – assisting countries to adopt data reconciliation of ODS/HFC trade data before reporting CP/Article 7 – All 11 countries in the region • Monitoring the trade of controlled substances assistance – encouraging and facilitating countries to use iPIC mechanism to verify the shipment – All 11 countries in the region • Focused Assistance - Development of Standard Operating Procedures (SOPs) on enforcement of licensing system – Cambodia <u><i>Pacific Island Countries</i></u> • Monitoring the trade of controlled substances assistance – assisting countries to adopt data reconciliation of ODS/HFC trade data before reporting CP/Article 7 – All 14 countries in the region • Monitoring the trade of controlled substances assistance – encouraging and facilitating countries to use iPIC mechanism to verify the shipment – All 14 countries in the region • Focused assistance: Provide support in the integration of HCFC/HFC trade monitoring into Customs Automation System (CAMS) – Marshall Islands <u><i>West Asia</i></u> • Monitoring and control of ODS trade assistance – All countries in the region: • Promoting iPIC mechanism • Data collection and reconciliation especially for countries HFCs data reporting.
--	---

<u>Latin America</u> - Monitoring the trade of controlled substances assistance – All 19 countries in the region. - Focused assistance - Bolivia, Chile, the Dominican Republic, El Salvador, Guatemala, Honduras, Mexico Nicaragua, Paraguay, and Peru	- Focused assistance - Strengthening risk profiling for controlled substances and guidance on market surveillance activities. - Assisting all network countries on any of the above topics through query response as needed and upon request
---	---

INFORMATION AND OUTREACH

INFORMATION AND OUTREACH

In addition to global information, communication and education services, UNEP also provides CAP assistance to support awareness and information activities at the national and regional levels, both within and outside of the Institutional Strengthening projects. In 2025, UNEP anticipates providing services in this category to the following Article 5 (and CEIT) countries:

<u>Africa – Anglophone</u> - Awareness raising and information outreach - Disseminate and promote OzonAction tools such as awareness materials and mobile applications - All 28 countries in the region - Awareness raising and information outreach – Communication strategy on Kigali Amendment to be implemented in the region, four videos on Kigali Amendment outreached - Focused assistance – Assist with materials that can be translated into local languages for countries that specifically request assistance. - Encourage celebration of World Ozone Day and Word Refrigeration Day - All 28 countries in the region. <u>Africa – Francophone</u> - Awareness raising and information outreach – Communication strategy on Kigali Amendment to be implemented in the region, four videos on Kigali Amendment outreached - Focused assistance - Encourage all countries to organize awareness activities under the respective IS projects - Disseminate additional technical guidance to NOUs. <u>Caribbean</u> - Awareness raising and information outreach - Disseminate and promote OzonAction tools such as awareness materials, eLearning courses and Applications for the RSS – All 14 Countries in the Region - Awareness raising and information outreach – Communication strategy on Kigali Amendment to be	<u>South Asia</u> - Awareness raising and information outreach - Disseminate and promote OzonAction tools such as awareness materials and mobile applications - All 13 countries in the region. - Awareness raising and information outreach – Communication strategy on Kigali Amendment to be implemented in the region - Focused assistance - Assist with materials that can be translated into local languages for countries that specifically request assistance. - Focused assistance – Strengthen capacity of the communications focal person in countries to enhance awareness and communication on the Montreal Protocol through communications working group for interested countries. - Focused assistance – Online exhibition for China’s Ozone2Climate Technology Roadshow <u>South East Asia</u> - Awareness raising and information outreach - Disseminate and promote OzonAction tools such as awareness materials and mobile applications - All 11 countries in the region - Focused assistance – Identification and engagement with stakeholders to support HCFC phase-out/HFC phase-down – Brunei, Cambodia, Laos PDR, Timor-Leste, Vietnam <u>Pacific Island Countries</u> - Awareness raising and information outreach - Disseminate and promote OzonAction tools such as awareness materials and mobile applications - All 14 countries in the region - Awareness raising and information outreach – development of Pacific’s ozone song and 14 short reels
---	--

implemented in the region, videos on Kigali Amendment outreached • Focused assistance - Organize a regional awareness activity based on a priority issue selected by countries (tbd) • Focused Assistance – Preparation of Factsheets where needed, to disseminate additional technical guidance to NOUs – All 14 Countries in the Region <u>Europe and Central Asia</u> • Awareness raising and information outreach - Encouraging the celebration of World Ozone Day and Word Refrigeration Days, support the implementation of awareness raising activities as part of IS, HPMP, KIP projects and implementation, outreach the Montreal Protocol related information materials and tools/products through 7 dissemination lists, translation into Russian, monitoring of national MPU websites, annual technology roundtable during SMEITS / KGH congress in Belgrade - 11 ECA countries. • Focused assistance – Assisting countries on any of the above activities through query response as needed and upon request - 11 ECA countries. <u>Latin America</u> • Awareness raising and information outreach - Communication strategy on Kigali Amendment to be implemented in the region; Electronic Bulletin in Spanish on several topics is developed and outreached four times a year for NOUs and other stakeholders, development of content to regional website in Spanish, the operational policy on gender mainstreaming is implemented through projects and network/thematic meetings.	to promote the PIC Regional Awareness Campaign under the HCFC Phase-out Management Plan • Focused assistance – Identification and engagement with stakeholders to support HCFC phase-out/HFC phase-down – 13 countries (Cook Islands, Fiji, Kiribati, Micronesia, Marshall Islands, Nauru, Niue, Palau, Samoa, Solomon Islands, Tonga, Tuvalu and Vanuatu) <u>West Asia</u> • Awareness raising and information outreach- Disseminate and promote OzonAction tools such as awareness materials and mobile applications - All 11 countries (plus State of Palestine as an observer country) in the region • Focused assistance - Translation into Arabic and promotion and outreach of key policy and technical papers, and other relevant information material • Focused assistance– Assisting all network countries on any of the above activities through query response as needed and upon request and disseminate their products among the network and beyond for wider use.
--	--

SOUTH-SOUTH COOPERATION

SOUTH-SOUTH COOPERATION

UNEP provides CAP assistance upon request to facilitate cooperation between two or more countries to address specific targeted needs identified by Ozone Officers. This cooperation may take the form of bilateral country-to-country (South-South, North-South) assistance or arrangement involving several countries, depending on the needs. The cooperation may entail visits, technical missions, or study tours and varies in nature from one year to another. In 2025, UNEP anticipates providing services in this category to the following Article 5 (and CEIT) countries (noting that for most regions, the activities will be determined upon a case-by-case request by countries and upon assessing the needs of the countries):

<u>Africa – Anglophone</u> • Facilitate exchange of experience between network members – All 28 countries • Arrange small-scale online meetings to exchange experiences on emerging issues.	<u>South Asia</u> • India – liaise with Maldives, Iran, Bhutan • China – hold one international training workshop on good servicing practices for regional countries. • Maldives & Mongolia – Study tour as part of the EE project (e.g. to Singapore or other identified country)
---	---

• Encourage the sharing of national experience on e-licensing, publications, and products with other countries. <u>Africa – Francophone</u> • Promote quota system for HFC, • Promote the new WCO HS codes. <u>Caribbean</u> • Organization and delivery of cooperation activity in the area of Youth Engagement in the RSS • Grenada-Dominica: HFC QS development and implementation • Barbados-Antigua and Barbuda: Best practices for successful NOU operations • Organization and delivery of cooperation activity in the area of Female RAC technicians • Development of an online repository for sharing technical information and common templates for use and management by NOUs. <u>Europe and Central Asia</u> • Facilitating exchange of experience among the ECA countries and between ECA and EU countries, arranging small-scale country-to-country meetings (physical or online) with 2-3 countries, encouraging the sharing of national experience, publications, and products with other countries upon request and subject to fund availability – 11 ECA countries. <u>Latin America</u> • Facilitate the exchange of experiences and cooperation between two or more countries in the region on gender mainstreaming, and ODS banks of controlled substances, including but not limited to seminars, visits, conferences, technical missions.	with testing laboratory) to exchange methodologies on EE labels and equipment testing program. <u>South East Asia</u> • Thailand - Lao PDR and Vietnam: Study visit of National Ozone Officer, National Licensing Authority and Customs Authority from Lao PDR and Vietnam to Thai Customs Department on enforcement of trade control and monitoring of controlled substances under the Montreal Protocol • Indonesia – Timor Leste: Strengthening capacity of local resources in Timor Leste in Competency-based Assessment through the approved National Qualification Framework Level II. <u>Pacific Island Countries</u> • Philippines – Fiji, Palau, Samoa, Solomon Islands, Tonga: Experience sharing on development and operation of electronic licensing system for HCFCs and HFCs. <u>West Asia</u> • Facilitate the exchange of experiences publications, products and cooperation between two or more countries in the region on compliance-related matters including KIP preparation and KA implementation, including but not limited to seminars, visits, technical missions. • Continue to organize small-scale meetings with 2-3 countries upon request to advance the policy and regulation development (HCFCS total phase out, HFCs Q&LS, Life Management of Refrigerants, certification schemes, Reclamation schemes, E-licensing systems, etc.)
---	--

CAPACITY BUILDING

NOU CAPACITY BUILDING

UNEP provides CAP assistance to support learning and skill growth of Ozone Officers and their staff through sharing the collective wisdom of the wider community of Ozone Officers who are leading NOUs. In 2025, UNEP anticipates providing services in this category to the following Article 5 (and CEIT) countries (noting that for some regions, it will be determined upon a case-by-case request by countries and upon assessing the needs of the countries):

<u>Africa – Anglophone</u> • NOU capacity building through training of new NOO and staff as requested by countries. • NOU capacity building: All 28 network countries via network activities and meetings, training of new NOO and staff as requested by countries, tailor-made training and query response.	<u>Latin America</u> • NOU capacity building – All 19 Countries of the region participating in information, training, and capacity-building sessions during the Network meetings and webinars. <u>South Asia</u>
--	--

• Focused assistance – for additional assistance to newer ozone officers (Namibia, Rwanda, Somalia) <u>Africa – Francophone</u> • NOU capacity building - through training of new NOO and staff as requested by countries. <u>Caribbean</u> • NOU capacity building - Organize Advanced NOO training for all 14 Countries (depending on availability of course) • NOU capacity building - Organize Training for New NOO in applicable countries • Focused assistance - Organize Negotiators’ Training for NOO – All 14 Countries, possibly back-to-back with a Network Meeting <u>Europe and Central Asia</u> • NOU capacity building – Supporting countries through network meetings, information services, country-to-country assistance, query response – 11 ECA countries. • Focused assistance – Providing tailor-made training for new staff of Montreal Protocol Units (MPUs) and inviting additional participants to regional meetings upon request and subject to fund availability – 11 ECA countries.	• NOU capacity building – NOU capacity building through training of new NOO and staff as requested by countries • Focused assistance - support gender mainstreaming in all MLF projects and activities as requested by countries <u>South East Asia</u> • NOU capacity building - NOU capacity building through training of new NOO and staff as requested by countries • Focused assistance - support gender mainstreaming in all MLF projects and activities as requested by countries <u>Pacific Island Countries</u> • NOU capacity building - Advance Training of National Ozone Officer for the Pacific Island Countries as requested by countries • Focused assistance - support gender mainstreaming in all MLF projects and activities as requested by countries <u>West Asia</u> • NOU capacity building –Capacity building of NOU staff in all network countries through regional network, inviting additional participants to regional meetings upon request and subject to fund availability and through clearinghouse activities. • Focused assistance – providing specific based needs training to new NOU staff members (Qatar, Jordan, Palestine and Syria).
--	--

OTHER

UNEP is called upon by Article 5 (and CEIT) countries to provide tailored CAP assistance to help address country-specific needs that do not fall into the above categories. In 2025, UNEP anticipates providing services in this category to the following Article 5 (and CEIT) countries (noting that these emerging needs will be determined in the coming months upon a case-by-case request by countries and upon assessing the needs of the countries):

<u>Africa – Anglophone</u> • To be determined by case-by-case requests by countries and upon assessing the needs. <u>Africa – Francophone</u> • Special assistance for Central African Republic to re-start IS activities. <u>Caribbean</u> • To be determined by case-by-case requests by countries and upon assessing the needs. <u>Europe and Central Asia</u> • To be determined case-by-case upon request by countries and upon assessing their needs. The	<u>Latin America</u> • NOU capacity building – All 19 Countries of the region participating in information, training, and capacity-building sessions during the Network meetings and webinars. <u>South Asia</u> • To be determined by case-by-case requests by countries and upon assessing the needs. <u>South East Asia</u> • To be determined by case-by-case requests by countries and upon assessing the needs. <u>Pacific Island Countries</u>
---	---

surveys on needs and priorities will be continued to ensure that assistance provided, and meeting topics meet the expressed interest of the countries – 11 ECA countries. Supporting countries to prepare national inventories of banks of used or unwanted controlled substances, implementing energy-efficiency projects and supporting project implementation upon request – 6 ECA countries (Albania, Armenia, Georgia, Kyrgyzstan, Moldova, Serbia).	- To be determined by case-by-case requests by countries and upon assessing the needs. <u>West Asia</u> - NOU capacity building – Regular capacity building and skills development of NOU staff for all countries through regional network and clearinghouse activities. - Focused assistance – focused training to new NOU staff members (Jordan, Palestine and Syria). - Focused assistance - support gender mainstreaming in all MLF projects and activities as requested by countries
--	--

Annex 4 – OzonAction partnerships for 2025

1. Since becoming an Implementing Agency of the Multilateral Fund in 1991, UNEP OzonAction has built long-standing partnerships with key international, regional, and national industry associations, professional societies, international organisations, government agencies, industry groups, and non-governmental organisations to further the objectives of the Montreal Protocol. These world-recognised partners bring their institutional reputation, expertise, and knowledge products to bear on issues related to implementation or enforcement of this multilateral environmental agreement in Article 5 countries. OzonAction's partnership activities produce and deliver the necessary support, tools and services that Article 5 countries efficiently implement their commitments under the Montreal Protocol and respond to emerging concerns and issues. These partnerships cover most of the important focus areas for the Parties of the Montreal Protocol with the main emphasis in the following:

- Certification of the refrigeration servicing sector technicians.
- Training and education of the refrigeration servicing sector.
- Advancement and deployment of suitable lower-GWP alternatives and technology.
- Promoting and facilitating the adoption/ advancement of EE in the HVAC sector.
- Assessing and analysing the trends in consuming controlled substances in different sectors.
- Development and update of codes and standards.
- Customs training, monitoring trade and combating illegal trade.
- Development, enactment, and enforcement of policies and regulations.
- Gender Mainstreaming in cooling sectors

2. Table 1 provides an overview of all OzonAction's cooling Partnerships. More detailed information about the partners with whom OzonAction plans to cooperate in 2025 for different initiatives, products, and activities is presented in Table 2 (List of UNEP's partners in 2025 with details of partnership). New partners may be added during the course of the year depending on the needs of Article 5 countries and other emerging issues in relation to the implementation of the Montreal Protocol.

3. In addition to international partnerships in the cooling sector, UNEP is cooperating with other implementing and bilateral agencies, as well as UNEP led initiatives, e.g. Cool Coalition, Climate and Clean Air Coalition (CCAC) and United for Efficiency (U4E) on the implementation of CAP activities and MLF funded projects.

Table 1: OzonAction Cooling Partnerships Matrix

		Area of Cooperation							
Partner*	Partner Mandated Region / Country	RAC Training & Materials	RAC Certification	Codes & Guides	Technology Advancement	Sectors Analysis	Campaigns & Awareness	Gender Equality	EE promotion
		Scope of Cooperation between OzonAction and the partner (G: Global – R: Regional – N: National)							
ABRAVA	Brazil (Latin America)		G						
ACAIRE	Colombia (Latin America)		R, G		N		N		
AREA	Europe	G	G		R, G		R, G	G	G
AHRI	North America		G		R, G				
AREMA	Australia	R	R	R	R				
ARIAH	Australia							G	
ASHRAE	North America / Global	G	G	G	G		G	G	G
ATF	Italy	G	R						
BFS	Germany	G							G
CAR	China	N, G					N, G	N, G	
CRAA	China				N, G		N, G		
FAIAR	Latin America				R		R, G	R, G	
GFCCC	Global				G	G	G		
IIR	Global			G	G		G	G	G
IOR	UK / Europe	G			G		G	G	
ISHRAE	India				N, G		N, G	N, G	
JSRAE	Japan							G	
MAC Partners	Europe				G				
U-3ARC	Africa				G		G	G	
Women in HVACR	North America						G	G	
WRD	Global						G	G	
The Pacific Community	Regional			R					R

EUROVENT ME	Regional	R	R	R			R		R
--------------------	----------	----------	----------	----------	--	--	----------	--	----------

Table 2: List of UNEP's partners in 2025 with details of partnership

Organisation	Type of organisation	Scope	Type of cooperation with UNEP	Details of partnership
REFRIGERATION AND AIR CONDITIONING				
Brazilian Association of Refrigeration, Air-Conditioning and Ventilation Industry (ABRAVA)	Industry association	National	Member to the Refrigerant Driving License (RDL)	- Support the International Advisory Group of the RDL program.
Colombian Association for Air-Conditioning and Refrigeration (ACAIRE)	Industry association	National	Member to the Refrigerant Driving License (RDL)	- Support the International Advisory Group of the RDL program.
Air Conditioning and Refrigeration European Association (AREA)	Professional/ Industry Association	Global	Promoting adoption of ozone-friendly lower-GWP and energy efficient RAC technology; online e-learning; technical materials on the use of new refrigerants; certification of technicians. Member to the Refrigerant Driving License (RDL) Founding partner of INWIC (International Network of Women in Cooling)	- Sharing experience on strengthening RAC associations, training, certification, technology transfer and innovation with the network countries; developing of an energy efficiency module of the “UNEP ARE training manual” on sound use of refrigerants to support training centres and programs in Article 5 countries. - Support the International Advisory Group of the RDL program - Advance the engagement of women, promote career opportunities, and increase their overall participation in the HVACR sector by coordinating INWIC activities and providing resources (webinars, training opportunities, participation in meetings/conferences)
Air Conditioning, Heating, and Refrigeration Institute (AHRI)	Industry association	Global	Promoting a global industry approach to qualify refrigeration technicians, cooperating in addressing technical needs for promoting low-GWP alternatives	- Support the International Advisory Group of the RDL program - Support UNEP in addressing research needs for examining lower-GWP alternatives in high ambient temperature countries.

Organisation	Type of organisation	Scope	Type of cooperation with UNEP	Details of partnership
			Main partner in designing and implementing RDL program.	
Air Conditioning & Refrigeration Equipment Manufacturers Association of Australia (AREMA)	Industry association	Regional	Providing technical assistance to 12 Pacific Island Countries under the Regional PIC HPMP Stage II and the Regional PIC KIP Stage I	- Support the International Advisory Group of the RDL program. - Supporting 14 Pacific Island Countries under the Regional PIC HPMP Stage II through (i) delivering training on good servicing practices, (ii) updating the training curriculum for RAC good servicing practices and (iii) designing and implementing the certification of RAC technicians under the HPMP and KIP. - Supporting 12 Pacific Island Countries to strengthen partnership with RAC Association to implement the Montreal Protocol activities.
Australian Institute of Refrigeration Air Conditioning and Heating (ARIAH)	Professional/Industry association	Global	Founding partner of INWIC (International Network of Women in Cooling)	- Advance the engagement of women, promote career opportunities, and increase their overall participation in the HVACR sector by coordinating INWIC activities and providing resources (webinars, training opportunities, participation in meetings/conferences) - Strengthening knowledge and skills of RAC Association/technicians in the PIC region.
ASHRAE	Professional association	Global	Supporting the evolving needs of developing countries by offering specialized services, products, and initiatives that facilitate refrigerant management for climate protection and energy-efficient Refrigeration and Air Conditioning (RAC) technology in Article-5 countries. Additionally, supporting in raising awareness and promoting	- UNEP and ASHRAE have had long-standing cooperation and biennial work plans since 2007 and recently in early 2024 signed a new MoU to establish a strategic partnership and agree to cooperate in the following non-exhaustive areas of common concern and interest: - Collaboration on supporting the evolving needs of developing countries by providing specialized services that facilitate refrigerant management for climate protection and

Organisation	Type of organisation	Scope	Type of cooperation with UNEP	Details of partnership
			understanding among stakeholders in Article-5 countries about best practices in the sound management of refrigerants. Founding partner of INWIC (International Network of Women in Cooling)	energy efficiency. - The collaboration will prioritize upgrading, updating, and deploying ASHRAE-UNEP products, tools, and initiatives to ensure effective outreach. This effort aims to raise awareness and promote understanding among stakeholders about best practices in refrigerant management. - Both parties will explore opportunities to advance standards, codes, norms, and guidelines concerning refrigerant management, including aspects related to flammability, operation, and maintenance. This joint effort will contribute to enhancing the safety and sustainability of refrigeration and air-conditioning systems. - The partnership will actively promote activities that emphasize sustainability and state-of-the-art technologies, while also aligning with the United Nations Sustainable Development Goals (SDGs). This includes encouraging the adoption of lower global warming potential (GWP) alternative refrigerants, efficient energy systems, and innovative building designs, all aimed at reducing emissions and environmental impact. - The collaboration will entail the exchange and/or development of technology awareness resources. These resources will be accessible to specialists and policymakers, aiding them in understanding the importance and application of emerging technologies that promote environmental protection. - Advancing workforce development through gender mainstreaming including, but not

Organisation	Type of organisation	Scope	Type of cooperation with UNEP	Details of partnership
				limited to, cooperation under the International Network of Women in Cooling (INWIC). - Both parties will explore opportunities for joint research in areas of mutual interest related to the subject areas identified above. - Both parties will explore opportunities for joint participation in relevant international and regional technical events, specially tailored to cater to the specific needs of developing countries.
Italian Association of Refrigeration (ATF)	Professional association	European	Advancing certification programs for refrigeration servicing technicians	- Cooperate in building national refrigeration servicing certification model similar to F-Gas certification but tailored to the needs and operating conditions of Article-5 countries - Assist 8 countries in Francophone Africa to establish national certification schemes
Bundesfachschule Kälte-Klima-Technik (BFS)	Training institute	Global	Training and capacity building for RAC technicians, particularly in the safe use and handling of ozone-friendly low-GWP & energy efficient RAC technology	- UNEP and Landesinnung Klima Kaelte Technik Bundesfachschule (BFS) have a long history of jointly assisting developing countries in enhancing the skills necessary for the environmentally responsible management of refrigerants in the RAC sector. - UNEP and BFS have recently cooperated in the area of capacity building with regard to natural refrigerants, i.e., low-GWP, ozone-friendly substances including ammonia, carbon dioxide, and hydrocarbons. They jointly developed over the last 4 years a set of educational and capacity-building videos on good practices in refrigeration servicing, which is one of the highly used and viewed UNEP OzonAction products. Accordingly, both parties agreed to extend the series and produce additional educational videos on

Organisation	Type of organisation	Scope	Type of cooperation with UNEP	Details of partnership
				refrigeration good practices and ensure that the OzonAction video library covers well the needs of the servicing sector in Article 5 countries. BFS is responsible for the technical materials, setup for the video shoot and scripts of the videos.
Chinese Association of Refrigeration (CAR)	Professional association	National	Founding partner of INWIC (International Network of Women in Cooling)	- Advance the engagement of women, promote career opportunities, and increase their overall participation in the HVACR sector by coordinating INWIC activities and providing resources (webinars, training opportunities, participation in meetings/conferences) - Organize training programme for technicians on handling cold storage.
China Refrigeration and Air-conditioning Industry Association (CRAA)	Industry Association	National	Cooperation in organizing technical events & implementation of national Montreal Protocol activities	- Organizing regular and annual O2C (Ozone-to-Climate) Roadshow to showcase latest low-GWP technologies feasible for RAC industry in Article 5 countries.
Federation of Ibero-American Air Conditioning and Refrigeration Associations (FAIAR)	Industry association	Regional	Technical events, Campaigns, and support to RDL Founding partner of INWIC (International Network of Women in Cooling)	- Organise technical functions and events, cooperate in international campaigns such as the World Refrigeration Day, and support the International Advisory Group of the RDL program. - Advance the engagement of women, promote career opportunities, and increase their overall participation in the HVACR sector by coordinating INWIC activities and providing resources (webinars, training opportunities, participation in meetings/conferences)
Global Food Cold Chain Council (GFCCC)	Initiative (Industry and RAC associations)	Global	Mapping the needs of Cold Chain sub-sectors in relation to lower-GWP technologies while considering the relationship between energy and food loss/waste.	- Organizing technical events on sustainable cold chain technologies in conjunction with the Montreal Protocol and Kigali Amendment.

Organisation	Type of organisation	Scope	Type of cooperation with UNEP	Details of partnership
International Institute of Refrigeration (IIR)	Inter-Governmental Organization	Global	Promoting adoption of ozone-friendly low-GWP and energy efficient RAC technology in the cold chain Founding partner of INWIC (International Network of Women in Cooling)	- Sharing technical information and expertise; organising joint events; co-organising thematic workshop on alternative technologies - Conduct regional surveys about Women in RAC sectors in cooperation with several associations and industry partners. - Advance the engagement of women, promote career opportunities, and increase their overall participation in the HVACR sector by coordinating INWIC activities and providing resources (webinars, training opportunities, participation in meetings/conferences)
Institute of Refrigeration (IOR)	Professional association	National/Regional	Founding partner of INWIC (International Network of Women in Cooling)	- Advance the engagement of women, promote career opportunities, and increase their overall participation in the HVACR sector by coordinating INWIC activities and providing resources (webinars, training opportunities, participation in meetings/conferences)
The Indian Society of Heating, Refrigerating and Air Conditioning Engineers (ISHRAE)	Professional association	National	Training programs, technical events, and support to small RAC associations Founding partner of INWIC (International Network of Women in Cooling)	- Organise technical conferences and technology shows in addition to providing experience and support to small RAC associations in A5 countries - Develop sessions at upcoming expos and conferences e.g. ACREX / REFCOLD in India. - Advance the engagement of women, promote career opportunities, and increase their overall participation in the HVACR sector by coordinating INWIC activities and providing resources (webinars, training opportunities, participation in meetings/conferences)
The Japan Society of Refrigerating and Air Conditioning Engineers, (JSRAE)	Professional association	National	Founding partner of INWIC (International Network of Women in Cooling)	- Advance the engagement of women, promote career opportunities, and increase their overall participation in the HVACR sector by

Organisation	Type of organisation	Scope	Type of cooperation with UNEP	Details of partnership
				coordinating INWIC activities and providing resources (webinars, training opportunities, participation in meetings/conferences)
MAC Partners Europe	Industry Association	Regional	Technical Materials and events	- Cooperation in the area of Mobile Air-Conditioning (MAC) sector and organization of MAC related events and functions.
Union of Associations of African Actors in Refrigeration and air-Conditioning (U-3ARC)	Professional association	Regional	Initiatives, technical events, training programs, and support to RAC associations in Africa. Founding partner of INWIC (International Network of Women in Cooling)	- Conduct research and data gathering to better understand the current situation of African countries with respect to the servicing sector's ability to handle low-GWP alternatives, to help inform NOU strategies and approaches - Advance the engagement of women, promote career opportunities, and increase their overall participation in the HVACR sector by coordinating INWIC activities and providing resources (webinars, training opportunities, participation in meetings/conferences)
Women in HVACR	Professional association	National	Founding partner of INWIC (International Network of Women in Cooling)	- Advance the engagement of women, promote career opportunities, and increase their overall participation in the HVACR sector by coordinating INWIC activities and providing resources (webinars, training opportunities, participation in meetings/conferences)
World Refrigeration Day Secretariat	International Initiative	Global	Global public and specialized campaign to highlight the importance of sector and environmental issues in relation to Montreal Protocol Co-initiator and a founding partner of INWIC (International Network of Women in Cooling)	- Celebrating annually the World Refrigeration Day (WRD) through international campaigns with other international partners. Previous campaigns organized in 2019, 2020, and 2021, 2022, 2023 and 2024 under the themes "Refrigerant4Life", "Cold Chain4Life", "Cooling Champions", "Cooling Keeps Food Fresh" "#NextGen Cooling" and "Temperature matters – absolutely!" in cooperation with many partners - Advance the engagement of women, promote career opportunities, and increase their overall

Organisation	Type of organisation	Scope	Type of cooperation with UNEP	Details of partnership
				participation in the HVACR sector by coordinating INWIC activities and providing resources (webinars, training opportunities, participation in meetings/conferences)
The Pacific Community	Inter-Governmental Organisation	Regional	Enhancing energy efficiency of RAC appliance through the Pacific Appliance Labeling Standards (PALS).	- The Pacific Appliance Labeling Standards (PALS) is the programme that supports 10 PICs to establish the national MEPS for RAC appliance including residential air-conditioner. The project was closed in 2019 with different level of implementation at the national level. - In 2025, UNEP will collaborate with the Pacific Community to support the PICs that are part of this programme to advance the implementation of the Minimum Energy Performance Standards and Labelling (MEPSL) in the PICs while phasing out HCFCs/phasing down HFCs through the energy efficiency projects under Decision 89/6 and programme of SPC.
EUROVENT ME	Professional/ Industry Association	Regional	Promoting adoption of ozone-friendly lower-GWP and energy efficient RAC technology; materials on the use of new refrigerants; certification of technicians.	- Sharing experience on strengthening RAC associations, training, certification, technology transfer and innovation with the network countries; promoting the adoption/development of required policies, guidelines and standards for EE in the HVAC sector - Advance the engagement of women, promote career opportunities, and increase their overall participation in the HVACR sector. - Promote and facilitate the engagement of HAVC industry in the implementation of MP and especially its KA including facilitation of related technological transition.
CUSTOMS AND ENFORCEMENT				

Organisation	Type of organisation	Scope	Type of cooperation with UNEP	Details of partnership
Association of Southeast Asian Nations (ASEAN)	Intergovernmental	Regional	Regional collaboration on strengthening of enforcement of licensing system through integrated approaches	- All SEAP countries (except Timor Leste) are members of ASEAN, which has played a vital role in the region to promote regional collaboration in a number of aspects including environment. - In 2025, UNEP will facilitate the Border Dialogue for ASEAN countries and in collaboration with the ASEAN Customs Working Group.
Green Customs Initiative (GCI)	International partnership	Global	Customs training; compliance and enforcement; combatting illegal ODS trade	- The GCI partners include the Secretariats of the relevant multilateral environmental agreements (Basel, Cartagena, CITES, Montreal, Rotterdam Stockholm and Minamata), Interpol, the Organisation for the Prohibition of Chemical Weapons, UNEP, the United Nations Office on Drugs and Crime (UNODC) and the World Customs Organization (WCO). UNEP Law Division/International Environmental Law Unit currently acts as the Secretariat for the Partnership and coordinates the related activities and the development and production of relevant outreach materials. - Support Indonesia in organizing national GCI workshops, planned for 2025.
Gulf Cooperation Council (GCC) Secretariat	Regional	Regional	Monitor the trade ODS and alternatives as well as combat illegal trade. Raise awareness about the MP and promote for updated standards, policies and regulations and subregional cooperation	- UNEP is cooperating with GCC and other regional & sub-regional organisations and secretariats to support developing and implementing of strategies or action plans to foster the monitoring the trade ODS and alternatives as well as combat illegal trade. - Raise awareness of member states about related issues and promote for regional cooperation for adopting unified regional standards, regulations and policies as required for meeting MP targets including

Organisation	Type of organisation	Scope	Type of cooperation with UNEP	Details of partnership
				the adoption of the KA.
Gulf Cooperation Council Standards Organization (GCCSO)	Intergovernmental	Regional	Mapping the needs of the region for updating and development of required standards and codes as required to facilitate the wider adoption of long term alternatives. Raise awareness about the MP and promote for updated standards, policies and regulations and subregional cooperation	- GCCSO is a renowned standards body in the WA region and has the ability and mandate to adopt unified standards and codes at the GCC region. Their products can be of great benefit even outside the GCC. - Raise awareness of member GCC region and promote for regional cooperation for adopting unified regional standards and codes as required for meeting MP targets including the adoption of the KA.
League of Arab States (LAS) Secretariat	Regional	Regional	Development and dissemination of Codes	- UNEP is working jointly with LAS on updating the Arab Unified RAC codes and adding two (2) more codes on District Cooling and Commercial Refrigeration and completing the process of updating the insulation materials codes as part of the regional building codes. - Developing tools for introduction of the developed/updated codes to all Arab Member States. - Raise awareness of member states about related issues and promote regional cooperation for adopting unified regional standards, regulations and policies as required for meeting MP targets including the adoption of the KA.
Oceania Customs Organization Secretariat (OCO)	Regional	Regional	Strengthening capacity of customs/enforcement officers on enforcement of licensing system for controlled substances under the Montreal Protocol	- Implementation of the Standard Operating Guidelines (SOG) on Enforcement of Licensing System for Controlled Substances under the Montreal Protocol in the national enforcement process of the PICs to enhance national controlled substances trade control/management regulation.

Organisation	Type of organisation	Scope	Type of cooperation with UNEP	Details of partnership
				- Capacity building of Customs Officers on HCFC/HFC data monitoring and reporting and of importers/customs brokers on declaration of HCFC/HFC shipment. - Preparation of the 2027 HS code for the Pacific Harmonized Commodity Description and Coding System 2027 (PACHS27) - Inclusion of agenda item on enforcement of national controlled substances trade control/management regulation as part of the agenda for the regional meetings/events organised by OCO.
World Customs Organization (WCO)	International organisation	Global	Customs training; e-training; compliance and enforcement; combatting illegal ODS trade; consultations re the update of the Harmonized Commodity Description and Coding System (HS Codes)	- UNEP and WCO have a formal framework for cooperation (MOU). UNEP cooperates with WCO Headquarters as well as WCO's Regional Intelligence Liaison Offices (RILOs), Regional Offices of Capacity Building (ROCB), and Regional Training Centres (e.g. AKMAL in Malaysia, ROK, India). - UNEP will also work with WCO to strengthen capacity of the customs in Article 5 countries to establish risk profiling criteria for trade controlled of substances under the Montreal Protocol. - UNEP will liaise with WCO on assigning the HS code for controlled substances under the Montreal Protocol during the development of 2027 HS code

ANNEXES RELATED TO 2024 PROGRESS REPORT

Annex 5 – Progress report on global CAP activities

In accordance with the decision 93/91 of the Report of the ninety-first meeting of the Executive Committee (UNEP/OzL.Pro/ExCom/93/105*), this annex provides detailed information on the activities for which the global funds were used during the period **September 2023 – August 2024**. These are four multi-year activities, namely the Refrigerant Driving License, Global training for the refrigeration servicing sector, the National Ozone Officer training programme, and Gender mainstreaming activities. This annex provides a brief update of the substantive progress and outcomes.

REFRIGERANT DRIVING LICENSE (RDL)

The Refrigerant Driving License (RDL) is an initiative created to introduce a globally recognized qualification program for the sound management of refrigerants. RDL aimed to set minimum competencies and skills for the heating, ventilating, air conditioning and refrigeration (HVAC&R) servicing network (individuals and companies) and create an international recognition program through industry and governments.

An RDL Advisory Committee was established consisting of key industry associations namely AHRI, AREA, ASHRAE, ABRVA, ACAIRE, EPEE, JRAIA, KRAIA, Refrigerants Australia, the Alliance for Responsible Atmospheric Policy and U-3ARC.¹⁰



The RDL program was implemented in three stages:

- Stage-I: Development
- Stage-II: Review and Pilot
- Stage-III: Launch and Outreach

The RDL program successfully completed a pilot stage including train-the-trainers' and train-the-technicians' sessions in 6 pilot countries namely Grenada, Maldives, Rwanda, Sri Lanka, Surinam, and Trinidad and Tobago. The final Stage of the RDL program (Stage III: Launch and Outreach) was completed in July 2023. Online testing platform is available in English, French and Spanish. Resource materials (Host Package consisting of guidelines, checklists, and templates for NOUs/local training centers) were prepared. The RDL test consists of two exams – theoretical exam (100 multiple-choice questions) and remotely proctored practical exam, covering three main testing areas: tubing and brazing, leak checking and parameters reading, and refrigerant handling (vacuum-charge-recovery). More information about RDL program can be found on the www.RDLprogram.org.

¹⁰ Air Conditioning, Heating, Refrigeration Institute (AHRI); European Association of Refrigeration, Air Conditioning and Heat Pump Contractors (AREA); American Society of Heating, Refrigerating, and Air-Conditioning Engineers (ASHRAE); Associação Brasileira de Refrigeração, Ar Condicionado, Ventilação e Aquecimento (ABRVA); Asociación Colombiana de Acondicionamiento del Aire y de la Refrigeración (ACAIRE); European Partnership for Energy and the Environment (EPEE); Japan Refrigeration and Air Conditioning Industry Association (JRAIA); Korea Refrigeration and Air-conditioning Industry Association (KRAIA); Refrigerants Australia; The Alliance for Responsible Atmospheric Policy (ARAP) and Union of Associations of African Actors in Refrigeration and air-Conditioning (U-3ARC)

After a successful launch of the RDL program at the side event during the 45OEWG in Bangkok, Thailand (More information can be found [here](#)), UNEP promoted the program through our website, communications from the regional teams and dedicated sessions during the network and thematic meetings. While the concept of the program was good and there was a lot of interest in it initially, in practice it struggled to take off. It seems to be inherently too complex for the countries to implement. The combination of insufficient demand and attempt to better use the resources shift the focus from insisting on globally administered program to using materials and resources created under the RDL program to enable countries to implement qualification and/or certification programs at the national level.

UNEP is currently working with AHRI and AREA, and the RDL advisory board members, to transform the concept and resources developed under the RDL program into a toolkit of useful documents for countries to incorporate into their existing and new certification system, in line with the national requirements.

GLOBAL TRAINING PROGRAMME FOR THE REFRIGERATION SERVICING SECTOR (RSS)

The 2021-2023 CAP Strategy included several initiatives to address the specific training needs of the refrigeration servicing sector (RSS), including the development of capacity building and outreach tools. The support to the RSS remains a priority of the CAP strategy, noting the importance of this sector in both HPMPs and future KIPs.

An important aspect of CAP support to RSS is ensuring diversity of products and tools in a way that can meet different backgrounds of RSS clients as well as offering so through different platforms to ease access to the knowledge and skills. In relation to RSS clients, CAP tools are designed to reach:

- Field technicians, or practitioners, who can attend face-to-face training sessions
- Field technicians, or practitioners, who doesn't have time or can't attend face-to-face training
- Non-field personnel who need to be aware about refrigerants related considerations
- Training institutes/centres that need flexible materials to tailor courses according to market
- Informal technicians or those with limited literacy
- Higher-level engineering students
- Professional engineers and operators



Therefore, CAP designed a range of services for RSS to be available in many formats, and languages, as feasible, where it can reach all clients regardless of their background or limitations. In addition, CAP also ensured that whatever was being developed should be easily and quickly updated, noting the dynamics and pace of technology development. The type of tools offered by CAP for RSS clients includes factsheets/quick guides, training guides, educational tools, mobile applications, e-learning platform and short videos. Some highlights include:

- **Refrigerants Literacy e-Learning Course**, *in cooperation with ASHRAE*: a first of its kind course for non- specialists about refrigerants. The course is currently offered in English, French and Spanish. It is a very useful tool for NOUs, government officers, and even for RAC experts who are not familiar with the dynamics of refrigerants. The course consists of four main chapters that address the relevant environmental issues, refrigerants classification and safety, refrigerants applications and uses, and principles of refrigerant management. The course offers an international Certificate of Completion signed by ASHRAE.

- *Energy Efficiency Literacy for Air-Conditioning and Refrigeration Systems e-Learning*
The course is designed to educate developing country policy makers, business leaders, and community stakeholders as well as NOUs about the benefits of air conditioning and refrigeration, the scientific principles involved, and factors that contribute to maximum energy efficiency.
- **University Course on Refrigerant Management:** OzonAction teamed up with the American University in Beirut (AUB) and developed a special course for undergraduate engineering students. The course is the first of its type, globally, to be developed in accordance with academic requirements targets engineering universities/colleges. It is a full semester elective course (16 weeks) designed with full supporting documentation. Through the cooperation with ASHRAE and its university networks (more than 450 engineering universities/colleges worldwide),

The courses "Refrigerant Literacy" and "Energy Efficiency Literacy" have collectively attracted a total of 156 enrollments. And the "University Course on Refrigerant Management" has been requested by 24 educational institutions.
- **The UNEP-AREA Training Manual: Refrigerants Servicing and Best Practices Manual (previously titled Universal Training Kit), *in cooperation with AREA*:** The manual is designed in a modular format enabling the users to tailor their training programs in accordance with the local needs. The UNEP-AREA Training Manual is available through a special [UNEP OzonAction Downloads Portal](#) that gives the opportunity for users to build their own course by selecting the topics and areas they need to cover in the training course they intend to offer. The online dissemination tool is also designed to enable training centers to design their courses and enable UNEP to track the usage of the manual. The courses cover refrigerant characteristics and environmental considerations, sound management of refrigerants, and the safe handling of HFC (hydrofluorocarbon)/HFO (hydrofluoro-olefins) and flammable refrigerants. The manual consists of 10 individual modules. The resources provided with each download (lecture notes, syllabus, PowerPoints, attendee pre-assessment and final test, specification of trainer qualifications, venue requirements and equipment needed, and generic certificate) enable trainers to deliver complete training experiences. Some modules present theoretical content delivered as lectures and others cover practical, hands-on demonstration and instruction. The manual is also available as eight downloadable, pre-assembled courses consisting of selected modules. The pre-assembled courses can range from five hours of instruction to 56 hours when the course with all modules is used. It provides a comprehensive, but flexible tool for NOUs and local training institutes/centres in Article 5 countries. As part of 2024 CAP, UNEP is partnering with AREA to produce an additional module on Energy Efficiency, and to translate existing modules into Spanish.
- **Update on New Refrigerants Designations and Safety Classifications, *in cooperation with ASHRAE*:** A factsheet, developed by ASHRAE in cooperation with UN Environment Programme OzonAction, serves as a comprehensive resource detailing refrigerant designations and safety classifications. This informative factsheet undergoes biannual updates, reflecting the inclusion of new refrigerants that have been assigned "R" numbers in accordance with ASHRAE designations.
- **Good Servicing Flammable Refrigerants Quick Guide** – A small booklet that includes most important background, information, best practices and safety when servicing with flammable refrigerants, also available as a smartphone application. The product is also available as a mobile application.
- *Mobile applications for RAC technicians:*
 - **New RAC Training Videos:** *in cooperation with Bundesfachschule Kälte-KlimaTechnik (BFS)*, a third series of instructional videos was developed to build the understanding and skill of technicians – both experienced and trainees – about basic refrigeration focusing on theory (refrigeration cycle, cold rooms, measurements, etc.) and best practices to encourage better

performance and servicing.

- **WhatGas?** – searchable database with information on refrigerants and alternatives (also available on the Ozonation website. The tool was updated in 2023 to reflect the latest GWP values for some HFCs and HFC blends. The database is periodically updated to reflect the latest information on the substances.
- **Support for the MAC sector** , *in cooperation with MACPartners Europe*: CAP has developed two products that aim to assist Article 5 parties to better understand the technical and regulatory issues related to HFCs and alternatives used in the MAC sector and their national situation with regards to MAC servicing sector: MAC Information Kit, a series of fact sheets that will inform the NOUs about the status of the MAC sector and help them better understand the MAC sector in relation to future HFC controls, and Data Collection Kit for MAC servicing sector.
- **International Guide: Sustainable Operation and Management of RAC Installations**, *in cooperation with ASHRAE*. As part of ASHRAE-UNEP OzonAction cooperation and their joint workplan, this product has been under development for the last couple of years aiming at designing the first international guide for managing the operation of RAC installations with focus on management of refrigerant, servicing skills, proper and preventive maintenance as well as energy efficiency aspects. The draft guide was developed and is currently being reviewed and evaluated by a group of international experts.
- **ASHRAE-UNEP OzonAction Lower-GWP Refrigeration and Air-Conditioning Innovation Awards**, *in cooperation with ASHRAE*. The annual international award program promotes innovative design, research, and practice by recognizing people who have developed or implemented innovative technological concepts applied in developing countries to promote lower global warming potential (GWP) refrigerants through refrigeration and air-conditioning applications. The 2024 award has been announced, and projects are currently being selected based on their innovative solutions to meet refrigeration and air-conditioning needs using lower-GWP technologies.

NATIONAL OZONE OFFICER (NOO) TRAINING PROGRAMME

a) Training for new NOOs



The training programme for new NOOs reached a new important milestone as the entire programme was translated into the French language. **The CAP team organized an important 3 day training programme for the new NOOs in Francophone Africa.** The training course aimed to strengthen the capacity of National Ozone Units to fulfil their duties effectively. The training programme was held from 14 to 16 May in Nouakchott, Mauritania. 23 NOU staff from 12

countries (14 female/9 male) participated in the training programme.

The following elements were covered during three-day sessions:

- Ozone depletion and reasons why the ozone layer needs to be protected
- Negative effects of ozone depletion on human health and the environment
- Links between ozone and climate change
- Evolution and achievements of the Montreal Protocol

- Structure and bodies of the Montreal Protocol
- Global commitments agreed under the Montreal Protocol
- The role of the National Ozone Unit
- National legislation, policies and activities
- Data collection, monitoring and reporting
- Enforcement and prevention of illegal trade in ozone-depleting substances
- Multilateral Fund projects
- Working with stakeholders, raising awareness, training and certification
- Overview of alternative technologies



Each module contained: a training presentation (powerpoint slides), a handout copy of the PowerPoint presentation (to reduce copies materials – PDF files were available) upon request, a practical exercise for participants and background information resources on the topics covered by the module. The training was very well received by participants and UNEP is requested to organize such training programmes on a regular basis in Francophone Africa.

In 2024, the CAP team also organized training of New National Ozone Units for Pacific Island Countries in Koror, the Republic of Palau on 7-8 June 2024. The training was attended by a total number of 12 participants (7 female/5 male) from 11 countries. The training served a dual purpose: strengthening national capacity and providing the CAP team with a valuable opportunity to identify the specific requirements of each implementing country. This knowledge allows UNEP OzonAction to tailor its services to effectively address the unique needs of each country, thereby facilitating the smooth implementation of the Montreal Protocol.



After each of the training programmes, CAP team organizes the training evaluation surveys which are an essential tool for UNEP to assess the effectiveness of the training programs. By conducting these surveys, UNEP gains valuable insights into how learners perceive the training, what they learned, and how it can be improved. In designing the survey a few issues were considered such as application of a mix of open-ended and closed-ended questions to get valuable feedback from a training evaluation survey, ensuring anonymity and confidentiality of respondents to encourage honest feedback, timing of the survey - immediately after the training and questions that are specific, measurable, and relevant to the training program.

The following 10 standard questions are asked:

1. What is your overall evaluation of the training course?
2. Were the PowerPoints clear and easy to understand?
3. Did the PowerPoint presentations provide essential information for your NOU work?
4. Were all of the presenters clear and easy to understand?
5. Were the practical activities interesting and useful for your NOU work?
6. Were the background documents clear and easy to understand?
7. Did the background documents provide useful information for your NOU work?
8. Do you feel better prepared for carrying out your NOU work as a result of this training?
9. Please identify the aspects of the course that you found most useful for your NOU work:
10. Please identify any ways in which we could improve the training course in future:



The CAP team analyzes and applies training evaluation results by reviewing the responses to identify any patterns or trends that emerge. The team looks for areas where participants struggled or excelled and considers how these findings can be used to improve future NOU training delivery. It should be highlighted that once the evaluation results have analyzed, the CAP team makes specific changes which might involve modifying the content or delivery of the specific modules, or addressing specific areas of concern that were identified in the evaluation feedback.

The CAP team plans to organize one more training programme for new staff of Montreal Protocol units (MPUs) in the Europe and Central Asia (ECA) region in 2024. The training will take place from 15 to 17 October 2024 in Paris, France,

The training programme for New Ozone Officers and NOO assistants is designed in a standardized way across the regions to enable them to fulfil the necessary tasks of NOU most effectively. The country-driven approach requires countries to have skilled and committed Ozone Officers and assistants who can effectively manage various activities at national, regional, and global levels. This NOU training programme is very well received by participants and UNEP will continue organizing the training programme as per the requests and needs of partner Article 5 countries.

b) Advanced (refresher) training for experienced NOOs

The training package and components for the advanced (refresher) training for experienced NOOs have been finalized and are being tested. **The first pilot training was organized on 20-21 November 2023 in Phuket, Thailand.** 11 NOU experienced staff from 10 countries (7 Female/4 Male) participated in the training programme. The training was in line with the Conclusions and Recommendations of the South Asia (SA) Network Meeting in Maldives and South East Asia (SEA) Network Meeting in Vietnam organized earlier in 2023. Participants were nominated experienced NOU staff from SA and SEA networks and UNEP CAP team members.

The training covered following topics:

- HFC phase-down & national strategy
- Calculating CO₂e, HFC consumption and baseline
- Steps for ratifying Kigali Amendment and Near-term implementation
- Optimizing MLF projects
- Updated CP data reporting
- Updated Article 7 data reporting
- Project management
- Longer-term implementation of the Kigali Amendment
- Climate-friendly alternatives (including safety issues)
- Stakeholders & capacity building

As a result of this training workshop, participants were expected to:

- Strengthen performance, data, progress and financial reporting, and project proposal development skills
- Gain a better understanding of operational procedures and details for implementation of activities under the Montreal Protocol especially related to the new requirements under the Kigali Amendment
- Enhance the capacity of seasoned NOU staff to smooth implementation of the Montreal Protocol including Multilateral Fund projects
- Provide active feedback and suggestions for future advanced trainings
- Actively participate in all discussions and activities

Participants provided very important feedback to improve the modules and those recommendations have been incorporated into the programme.

The second Pilot Advanced National Ozone Officers Training Workshop NOO forum – open dialogue took place on 20-21 June 2024 in Panama City, Panama. The training was designed for a small number of participants in order to receive detailed feedback and comments on presentations, practical exercises and other documents. In total, 5 countries (Barbados, Bahamas, Saint Lucia, Saint Vincent and the Grenadines and Trinidad and Tobago) participated in the training +1 Jamaica (online) (4 Female/1 Male + 1 male online). One of the goals of the advance training programme is to enhance performance of NOO through upgrading skills and knowledge on the MP and KA as well as to build NOOs confidence in their abilities to implement complex assignments. This training also improves their performance and makes them work more efficiently and effectively. The CAP team received excellent feedback and detailed comments which will be incorporated into the modules.

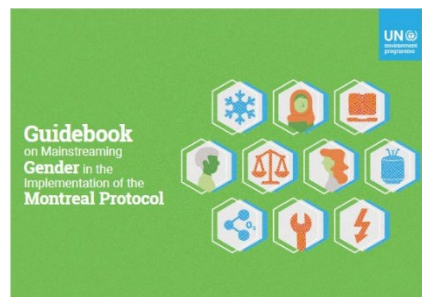


UNEP CAP Global team (in cooperation with regional teams) plans to organize the last pilot training programme workshops next year in two regions: Pacific Island Countries and Anglophone Africa. Subsequently, the modules will be finalized/updated and available for standard training workshops across all regions. The training programme is planned to be translated into Spanish and French languages once the final English version is available.

GENDER MAINSTREAMING

In order to help NOUs implement the Gender Policy of the Multilateral Fund, several products and initiatives were delivered under the CAP global budget. They are designed to support and complement gender mainstreaming activities organized as part of CAP regional activities (e.g. regional training workshops for female technicians) and national projects implementation. Highlights for the period September 2023-August 2024 include:

Guidebook on Mainstreaming Gender in the Implementation of the Montreal Protocol: The Guidebook has been developed to help advance the agenda of gender equality and women's empowerment in the implementation of the Montreal Protocol by assisting the NOUs and national stakeholders in mainstreaming gender issues into their daily works and operations. The Guidebook maps the existing issues and challenges in achieving gender equality through Montreal Protocol activities and identifies gender mainstreaming opportunities under the implementation of Montreal Protocol along with examples and good practices from various countries.



International Network of Women in Cooling (INWIC), in cooperation with WRD and 11 HVACR partners: A joint initiative created in April 2022 to advance the engagement of women, promote career opportunities, and increase their overall participation in the HVACR sector. Through INWIC, UNEP OzonAction is harnessing the institutional reputation, expertise, and knowledge products of these RACHP sector partners to help developing countries (Article 5 countries) in the implementation of the Montreal Protocol. Products and tools, both delivered by INWIC (membership platform, mentoring, internship opportunities) and made available to the wider INWIC network by the founding partners (webinars, training opportunities, participation in meetings/conferences) aim to assist Article 5 parties mainstream gender consideration into preparation and implementation of their Montreal Protocol projects.

INWIC has organized several sessions as part of conferences and events hosted by its founding partners.



- Chillventa 2022, 11 – 13 October 2022, Nuremberg, Germany
- IIAR Natural Refrigeration Conference, March 12-15 2023, Long Beach, CA, USA
- 20th European Conference in the Latest Technologies in Refrigeration and Air-conditioning, 8 - 9 June 2023, Milan, Italy
- International Congress of Refrigeration, 21 – 22 August 2023, Paris, France
- Women in HVACR, 5 – 8 November, Jacksonville, FL, USA
- COP 28, 30 November – 12 December 2023, Dubai
- ASHRAE Winter Conference and AHR Expo, 20 – 24 January 2024, Chicago, IL, USA

IWD campaign (2024) “Invest in Women, accelerate progress”: The 2024 International Women’s Day campaign featured success stories of nine women from the Montreal Protocol community, representing different Montreal Protocol institutions, National Ozone Units and stakeholders, showcasing their leadership and their role in environmental protection. In line with this year's theme, interviewed women sent a message to decision-makers on the importance of investing in women and gave advice to young girls and women. When selecting role models, different aspects of the Montreal Protocol and the Kigali Amendment were considered: international policy making, national policy making, project implementation, funding, scientific/technical research, technical expertise and information and outreach. Regional and geographical diversity was also considered, and interviews were conducted/stories written in different languages (one in French, one in Spanish and 7 in English). The stories and accompanying quote cards were published sequentially on the OzonAction website between 8 and 29 March 2024 and posted on the regional social media of UNEP ROAP and ROA offices. More information can be found [here](#).



Annex 6 – Report on the use of CAP staff time

Decision 70/10(d)(ii) requested UNEP to continue providing reports on the utilization of CAP) staff for Multilateral Fund Montreal Protocol activities according to the following five categories:

- Projects and services approved by the Executive Committee.
- Pursuing synergies or implementing joint activities with other non-Multilateral Fund partnerships and initiatives.
- Mobilizing resources for ozone protection activities from entities outside of Multilateral Fund.
- UNEP-wide processes and activities.
- Administrative activities.

For the period September 2023 through August 2024, UNEP continued to ensure that all staff paid through CAP were dedicated to the delivery of the activities, services and projects approved by the Executive Committee via the Business Plan and CAP Work Programme. This was done primarily through:

- Work planning. All Regional Coordinators and Global Activity Leaders have developed their individual e-Performance work plans in close consultation with the Head of OzonAction, and all other staff have developed theirs in close consultation with the Regional Coordinators or the Global Fund Management Officer. The individual work plans reflect the goals and priorities set for the staff member for this reporting period. Collectively, the implementation of these work plans reflected the projects and services approved by the Executive Committee for the reporting period.
- Monitoring of legal instruments. The Head of OzonAction reviews all proposed legal instruments with countries and organisations, commercial companies, terms of reference for consultants, as well as requests for payments, thus ensuring that Multilateral Fund resources are used for the intended purpose. The Regional Coordinators ensure that funding is commensurate with planned activities as well as review expenditure and progress reports to ensure that they reflect implementation by the countries and consultants.
- Regular communication with CAP teams. Through regular communication with regional coordinators and other team members, review of outputs and deliverables, and participation in events/missions organised by CAP, the Head of OzonAction keeps an overview on activities undertaken by CAP staff. The Regional Coordinators also play a key role in monitoring use of CAP staff time. Regional Coordinators report to the Head of OzonAction as their first reporting officer and to the Law Division Deputy Director as their second reporting officer.
- Accountability framework. As part of UNEP's accountability framework, all staff are individually responsible for the use of their time and delivery of their own work, which is to deliver Multilateral Fund outputs.

The following table provides estimates for the use of CAP staff time during this period:

CAP team	Projects and services approved by the Executive Committee (% time)	Pursuing synergies or implementing joint activities with other non-Multilateral Fund partnerships and initiatives (% time)	UNEP-wide processes and activities (% time)	Administrative activities for CAP and Multilateral Fund projects (% time)
Africa – Anglophone	75	5	0	20
Africa – Francophone	75	5	0	20
Caribbean	75	5	0	20
Europe and Central Asia	75	5	0	20
Latin America	75	5	0	20
Pacific Island Countries	75	5	0	20
South Asia	75	5	0	20
Southeast Asia	75	5	0	20
West Asia	75	5	0	20
Global CAP team including management	55	10	5	30

In collaboration with Ozone Officers, CAP staff continue to explore opportunities for co-financing and climate co-benefits through interactions with non-Multilateral Fund organizations, including but not limited to those indicated in Annex 4 – *CAP partnerships*.

Annex 7 – Meetings and workshops organized by CAP

During the period 1 August 2023 – 1 August 2024, UNEP organized/co-organized the following events as part of CAP services. Documentation from many of the events listed below is available on the OzonAction Meeting Portal at www.ozonactionmeetings.org.

Meetings organized or supported by CAP for NOUs and other national stakeholders:

1. ROAP-PIC: Network Meeting of the Pacific Island Countries' National Ozone Officers, *Apia, Samoa, 4 September 2023*
2. ROAP-PIC: Thematic Workshop on Nation-wide Data Collection under the Kigali HFC Implementation Plan (KIP) Preparation, *Apia, Samoa, 5-6 September 2023*
3. ECA-ROWA: Joint West Asia and Europe and Central Asia Network Meeting of National Ozone Officers, *Amman, Jordan, 27-28 September 2023*
4. ROLAC-CAR: Thematic Meeting of the Caribbean National Ozone Officers back-to-back with the Workshop for Women in Refrigeration and Air Conditioning, *Trinidad & Tobago, 13-17 November 2023*
5. ROAP-SA-SEA: Joint Network Meeting of South Asia and Southeast Asia National Ozone Officers, *Phuket, Thailand, 22-24 November 2023*
6. ROAP-SA-SEA: Thematic Workshop to Enhance Awareness and Communication under the Montreal Protocol, *Phuket, Thailand, 23-24 November 2023*
7. ROA-F: Network Meeting of French-Speaking African National Ozone Officers, *Abidjan, Côte d'Ivoire, 20-24 November 2023*
8. ECA: 32nd online meeting on the revised EU F-gas regulation and the establishment of inventories of banks of unwanted controlled substances, *Virtual, 29 November 2023*
9. ROAP-PIC: Thematic Workshop on Establishment and Implementation of Competency-based Certification in Pacific Island Countries, *Rarotonga, Cook Islands, 7-8 February 2024*
10. ROAP-PIC: Thematic Workshop on Strategy of Stage I of the KIP and Integration with the HPMP Stage II for Pacific Island Countries, *Rarotonga, Cook Islands, 9-10 February 2024*
11. ECA: 33rd ECA online meeting on “Energy-efficiency pilot projects in motion – the why, how, who and when”, *Virtual, 20 March 2024*
12. ROWA & ROAP-SA: Joint Thematic Meeting for High Ambient Temperature (HAT) / Group 2 Countries in West Asia and South Asia, *Dubai, United Arab Emirates, 22-23 April 2024*
13. ECA: Europe and Central Asia Network and Enforcement Meeting for Montreal Protocol Officers and Montreal Protocol Customs Focal Points, *Tirana, Albania, 23-25 April 2024*
14. ROWA: Network Meeting of the West Asia National Ozone Officers, *Dubai, United Arab Emirates, 24-25 April 2024*
15. ROAP-SA-SEA: Joint Network Meeting for Ozone Officers in South Asia and Southeast Asia, *Guangzhou, China, 22-24 May 2024*
16. ROAP-PIC: Network Meeting of the National Ozone Officers of Pacific Island, *Koror, Palau, 10-11 June 2024*

17. ROAP-PIC: Thematic Workshop on Finalization of the Stage I of the Regional Pacific Island Countries Kigali HFC Implementation Plan and Other Multilateral Fund Projects, *Koror, Palau, 12-14 June 2024*
18. ROA-E: Regional Network Meeting of National Ozone Officers of the English-Speaking African Countries, *Maputo, Mozambique, 10-12 June 2024*
19. ECA: 34th ECA online meeting on ECA network activities and countries' experiences from Montreal Protocol project implementation, *Virtual, 13 June 2024*
20. ROLAC-CAR: Thematic Network Meeting of the Caribbean National Ozone Officers, *Panama City, Panama, 24-26 June 2024*
21. ROLAC-LA: Thematic Network Meeting of the Latin America National Ozone Officers, *Santiago, Chile, 29-31 July 2024*

Other meetings organized/co-organized by CAP:

22. ROA-E: National Ozone Unit and Customs Twinning workshop & Border Dialogues for countries of the SADC region, *Windhoek, Namibia, 6-8 September 2023*
23. ROAP-PIC: Twinning Workshop for Pacific Island Countries Ozone – Customs Officers on ODS/HFC Trade Control and Reporting, *Apia, Samoa, 7-9 September 2023*
24. ECA-ROWA: Joint West Asia and Europe and Central Asia Twinning Workshop for National Ozone Officers, National Energy Efficiency Policymakers, and Financial Mechanisms Focal Points, *Amman, Jordan, 25-26 September 2023*
25. ROAP-SEA: Study Visit on Establishment and Implementation of Competency-based Certification of Refrigeration and Air-conditioning Technicians for the Southeast Asia Network, *Jakarta, Indonesia, 10-12 October 2023*
26. ROWA: Consultation and Awareness Workshop on Long-term Alternatives Suitable for the State of Qatar, *Doha, Qatar, 10 October 2023*
27. ECA: National Conference “Kigali Amendment – Industry Advocates for Climate Protection in Albania”, *9-10 November 2023*
28. ROAP-SA-SEA: Advanced Training of National Ozone Officers, *Phuket, Thailand, 20-21 November 2023*
29. ROAP-SA-SEA: Advanced Training of National Ozone Officers, *Phuket, Thailand, 20-21 November 2023*
30. ECA: Poland – Armenia country-to-country assistance and a study tour, *Warsaw, Poland, 28-30 November 2023*
31. ROAP-SA-SEA: Training of Assessor on Competency-based Certification for Good Servicing Practices in the Refrigeration and Air Conditioning Servicing sector, *Kuala Lumpur, Malaysia, 28-30 November 2023*
32. ECA: Technology Roundtable on Ozone- & Climate Friendly Technologies and Exhibition Booth organized by OzonAction / Regional Ozone Network for Europe & Central Asia, *Belgrade, Serbia, 6-8 December 2023*
33. ROAP-PIC: Second Training the Trainer Workshop on Good Servicing Practices in Refrigeration and Air-conditioning Sector of the Pacific Island Countries, *Melbourne, Australia, 11-15 December 2023*
34. ROWA: Consultation Workshop for Government Authorities and RAC Sector in Oman, *Muscat, Oman, 16 January 2024*

35. ROWA: Training workshop for New National Ozone Officers and NOU employees in Saudi Arabia, *Riyadh, Saudi Arabia, 23-25 January 2024*
36. Global: Communication Strategy for Global Compliance with the Montreal Protocol and its Kigali Amendment, *Panama City, Panama, 24-26 January 2024*
37. ROAP-PIC: Twinning Workshop of Montreal Protocol Officers, Energy-Efficiency Policy Makers and Financial Mechanisms Focal Points to Support Kigali Amendment Objectives *Rarotonga, Cook Islands, 5-6 February 2024*
38. ROWA: Training workshop for New National Ozone Officers and NOU employees in Qatar, *Doha, Qatar, 5-7 February 2024*
39. ROWA: Training workshop for New National Ozone Officers and NOU employees in Syria, *Damascus, Syria, 25-27 February 2024*
40. Consultation workshop for national key stakeholders on the implementation of the Montreal Protocol projects in Syria, *Damascus, Syria, 28 February 2024*
41. Training of trainers on Competency-based training and assessment, *Kathmandu, Nepal, 27-29 March 2024*
42. Training of trainers on Competency-based training and assessment, *Thimphu, Bhutan, 23-25 April 2024*
43. ROA-F: Training Workshop for New National Ozone Officers of French-Speaking African Countries, *Nouakchott, Mauritania, 14-16 May 2024*
44. ROAP-SA-SEA: Energy Efficiency Twinning Workshop, *Guangzhou, China, 20-21 May 2024*
45. ROA-F: Theory, Practice Training, and Certification sessions for Refrigeration and Air Conditioning technicians for selected countries of French-speaking Africa, *Cotonou, Benin, 2-7 June 2024*
46. ROAP-PIC: Training of the New National Ozone Officer/National Ozone Unit Staff of Pacific Island Countries, *Palau, 7-8 June 2024*
47. ROA-E: Twinning Workshop for National Ozone Officers, National Energy Efficiency Policy makers and Funding Mechanism Focal Points, *Maputo, Mozambique, 13-14 June 2024*
48. ROLAC-CAR: Pilot Training for Advanced National Ozone Officers, *Panama City, Panama, 20-22 June 2024*
49. ROLAC-CAR: Workshop for Montreal Protocol Officers, Energy-Efficiency Policy Makers, and Financial Mechanisms Focal Points, *Panama City, Panama, 27-28 June 2024*
50. ROLAC-LA: Workshop for Montreal Protocol Officers, Energy-Efficiency Policy Makers, and Financial Mechanisms Focal Points, *Santiago, Chile, 1-2 August 2024*

Other major meetings in which CAP participated:

1. Inter-agency Coordinator Meeting, *Montreal, Canada, 3-5 October 2023*
2. World Ozone Day Celebration, 16 September and China HPMP Implementing Agency Coordination Meeting, *Beijing China, 17-20 September 2023*
3. Annual RILO Eastern and Central Europe meeting, *Warsaw, Poland, 14-15 October 2023*
4. 71st Implementation Committee Meeting, *Nairobi, Kenya, 20 October 2023*
5. Energy Efficiency Workshop, *Nairobi, Kenya, 22 October 2023*
6. 35th Meeting of the Parties, *Nairobi, Kenya, 23-27 October 2023*
7. 28th Conference of the Parties, *Dubai, United Arab Emirates, 30 November – 12 December 2023*

8. 93rd Executive Committee Meeting, Montreal, *Canada, 15-19 December 2023*
9. ASHRAE Winter Conference, *Chicago, USA, 19-23 January 2024*
10. Annual Green Customs Initiative (GCI) partners meeting, *Brussels, Belgium, 7-8 February 2024*
11. ISHRAE ACREX expo, Greater Noida, *Delhi, India, 15-17 February 2024*
12. Inter-agency Coordination Meeting, *Montreal, Canada, 5-7 March 2024*
13. Ozone2Climate Technology Industry Roundtable and Roadshow, China Refrigeration Expo 2024, *Beijing, China, 8-9 April 2024*
14. 94th Meeting of the Executive Committee, *Montreal, Canada, 27-31 May 2024*
15. WCO Demeter 10 Briefing, Shanghai, China, *Virtual participation, 2 July 2024*
16. 72nd Implementation Committee Meeting, *Montreal, Canada, 7 July 2024*
17. 46th Open-Ended Working Group (OEWG) Meeting, *Montreal, Canada, 8-12 July 2024*