



联合国



环境规划署

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执行蒙特利尔议定书  
多边基金执行委员会  
第五十四次会议  
2008年4月7日至11日，蒙特利尔

更正

提供关于对氟氯烃淘汰供资方面的所有有关费用因素进行的  
分析的初步讨论文件 (第 53/37(i)号决定)

以下表替换表二.3 和表二.4, 斜体字为变动之处:

表二.3: 泡沫塑料用途淘汰每公吨 HCFC-141b 的年度增支  
经营费用范围概览 (美元/公斤)<sup>20/</sup>

发泡剂	硬泡沫塑料		整皮泡沫塑料	
	低	高	低	High
HFC-245fa	2.50	6.40	2.50	6.40
甲酸甲酯	(0.30)	(1.90)	(0.30)	(1.90)
水性体系	0.85	1.75	3.55	12.78
戊烷	<i>(1.00)</i>	<i>(1.90)</i>	<i>(1.11)</i>	<i>0.34</i>
环戊烷	<i>(0.85)</i>	<i>(1.50)</i>		

执行蒙特利尔议定书多边基金执行委员会的会前文件不妨碍文件印发后执行委员会可能作出的任何决定。  
为节省经费起见, 本文件印数有限。请各代表携带文件到会, 不索取更多副本。

表二.4: 企业一级两年内计算的增支经营总费用 (美元)

技术	企业消费量 (吨)					
	5.0 公 (0.6 ODP)		5.0 公 (0.6 ODP)		5.0 公 (0.6 ODP)	
	低	低	低	低	低	低
HFC-245fa (50%)	21,750	33,060	108,750	165,300	326,250	495,900
HFC-245fa (75%)	47,850	55,680	239,250	278,400	717,750	835,200
水性体系	7,395	15,225	36,975	76,125	110,925	228,375
甲酸甲酯	(2,610)	(16,530)	(13,050)	(82,650)	(39,150)	(247,950)
戊烷	<b>(8,700)</b>	<b>(16,530)</b>	<b>(43,500)</b>	<b>(82,650)</b>	<b>(130,500)</b>	<b>(247,950)</b>
环戊烷	<b>(7,395)</b>	<b>(13,050)</b>	<b>(36,975)</b>	<b>(65,250)</b>	<b>(110,925)</b>	<b>(195,750)</b>

以下段**替换**第 31 (c)段:

- (c) 对于硬泡沫塑料用途而言, 转用戊烷技术在过去 (从 CFC-11 的过渡) 导致了很大的增支经营费用, 尽管发泡剂的价格较低, 而使用率也较被其替代的 HCFC-141b 的使用率低大约一半。原因是泡沫塑料的密度增加以及额外的保养、保险和能源费用。但是, 即便是根据计算多边基金项目的增支经营费用的办法考虑了泡沫塑料密度增加 10%和额外的保养、保险和能源费用, 硬泡沫塑料用途由 HCFC-141b 向戊烷技术的整个转换仍然导致经营费用的节省; 以及

在附件三的附录一中, 以下表**替换**题为“增支经营费用: 聚氨酯硬泡沫塑料 (美元)”的表格:

**Incremental operating costs: Rigid polyurethane foam (US \$)**

Chemical	Prices US \$/kg		Ratio (*)	Consumption (metric tonnes)		
	Low	High		Plant 1	Plant 2	Plant 3
HCFC-141b	1.40	3.50	1.00	5.00	25.00	75.00
HFC-245fa(**)	10.40	12.00	0.50	2.50	12.50	37.50
HFC-245fa (**)	10.40	12.00	0.75	3.75	18.75	56.25
Methyl formate	2.20	3.20	0.50	2.50	12.50	37.50
Water-based systems	1.50	3.50	1.50	7.50	37.50	112.50
Pentane	0.50	2.50	0.50	2.50	12.50	37.50
Cyclopentane	0.80	3.30	0.50	2.50	12.50	37.50
MDI (pentane)	1.50	3.50	<b>0.10</b>	<b>0.50</b>	<b>2.50</b>	<b>7.50</b>

(\*) Ratio between HCFC-141b and the alternative blowing agent

(\*\*) The lower and higher prices represent bulk price and small package price allowing for 15% difference.

Description	Plant capacity: 5 tonnes		Plant capacity: 25 tonnes		Plant capacity: 75 tonnes	
<b>Before conversion</b>						
HCFC-141b	7,000	17,500	35,000	87,500	105,000	262,500
<b>After conversion</b>						
HFC-245fa (50%)	26,000	30,000	130,000	150,000	390,000	450,000
HFC-245fa (75%)	39,000	45,000	195,000	225,000	585,000	675,000
Water-based system	11,250	26,250	56,250	131,250	168,750	393,750
Methyl formate	5,500	8,000	27,500	40,000	82,500	120,000
Pentane	<b>2,000</b>	<b>8,000</b>	<b>10,000</b>	<b>40,000</b>	<b>30,000</b>	<b>120,000</b>
Cyclopentane	<b>2,750</b>	<b>10,000</b>	<b>13,750</b>	<b>50,000</b>	<b>41,250</b>	<b>150,000</b>
<b>One year IOC</b>						
HFC-245fa (50%)	19,000	12,500	95,000	62,500	285,000	187,500
HFC-245fa (75%)	32,000	27,500	160,000	137,500	480,000	412,500
Water-based system	4,250	8,750	21,250	43,750	63,750	131,250
Methyl formate	(1,500)	(9,500)	(7,500)	(47,500)	(22,500)	(142,500)
Pentane	<b>(5,000)</b>	<b>(9,500)</b>	<b>(25,000)</b>	<b>(47,500)</b>	<b>(75,000)</b>	<b>(142,500)</b>
Cyclopentane	<b>(4,250)</b>	<b>(7,500)</b>	<b>(21,250)</b>	<b>(37,500)</b>	<b>(63,750)</b>	<b>(112,500)</b>
<b>Two year IOC</b>						
HFC-245fa (50%)	33,060	21,750	165,300	108,750	495,900	326,250
HFC-245fa (75%)	55,680	47,850	278,400	239,250	835,200	717,750
Water-based system	7,395	15,225	36,975	76,125	110,925	228,375
Methyl formate	(2,610)	(16,530)	(13,050)	(82,650)	(39,150)	(247,950)
Pentane	<b>(8,700)</b>	<b>(16,530)</b>	<b>(43,500)</b>	<b>(82,650)</b>	<b>(130,500)</b>	<b>(247,950)</b>
Cyclopentane	<b>(7,395)</b>	<b>(13,050)</b>	<b>(36,975)</b>	<b>(65,250)</b>	<b>(110,925)</b>	<b>(195,750)</b>

## Notes

- For pentane projects to the incremental operating costs should be added the following costs:
  - Incremental maintenance of 5% of net incremental investment
  - Incremental insurance of 0.5% of net incremental investment
  - Extra power of 5 kW/dispenser, 10 kW for premixer, 10 kW for ventilation for 2,000 hr/year at 0.10/kW
- The prices of HFC-245fa and methyl formate are global prices as provided by manufacturers

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