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¹ www.cdm.unfccc.int

² سعر شركات السمسرة في الأسواق خارج البورصة حسبما أبلغت عنه Point Carbon في 22 يناير/كانون الثاني 2009، في

www.pointcarbon.com

³ تراوحت الأسعار الأجلة التي أعلنها البنك الدولي للسندات المعتمدة لخفض الانبعاثات المستقبلية ما بين 8 يوروات و13 يورو في عام 2007 وأوائل عام 2008، وحصلت المشروعات التي لا تزال في مرحلة مبكرة من الإعداد على نحو 8-10 يورو وحصلت المشروعات المسجلة ذات التكنولوجيات مبسطة، مثل مشروعات الهيدروفلوروكربون، التي تشتمل على خيارات للتخزين، ما بين 11-13 يورو، أنظر State and Trends of the Carbon Market 2008, Karan Capoor and Philippe Ambrosi, World Bank, p. 32. وقد زادت الأسعار بدرجة كبيرة خلال عام 2008 ولكنها

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انخفضت بنهاية عام 2008 وأوائل عام 2009 ولا تزال تنخفض حتى وقت إعداد هذه الورقة. وكان متوسط سعر السندات الأولية المعتمدة لخفض الانبعاثات مقداره 11.61 يورو في عام 2008 و9.25 يورو في أوائل عام 2009، وفقاً لما ذكرته IDEACarbon في 12 فبراير/شباط 2009. 4 العدد المقدر من مصانع المواد الهيدروكلوروفلوروكربون في الصين يتراوح بين 13 (وفقاً للخبراء) و 19 (وفقاً لإدارة حماية البيئة التابعة للدولة). 5 تستضيف جمهورية كوريا مشروعاً واحداً من مشروعات تدمير الهيدروكلوروفلوروكربون المسجلة لدى آلية التنمية النظيفة والبالغة 18 مشروعاً وهذا المشروع غير مدرج في المرفق الأول.

6 إن الإمكانات الخاصة بخفض انبعاثات الهيدروكلوروفلوروكربون-23 المتعلقة بإنتاج المواد الهيدروكلوروفلوروكربونية بموجب آلية التنمية النظيفة ينبغي أن تنتهي تقريباً نتيجة المشروعات الواردة في المرفق الأول زائد مشروع جمهورية كوريا ما لم تقرر الأطراف في بروتوكول كيوتو قبول مصانع جديدة من مصانع المواد الهيدروكلوروفلوروكربونية بوصفها مصانع مؤهلة.

7 الاستثناء هو مصنع واحد في الهند يقوم بتصنيع البوليتترافلوراإيثيلين (PTFE) وينتج المواد الهيدروكلوروفلوروكربونية كمواد أولية.

8 إن إجمالي عدد السندات المعتمدة لخفض الانبعاثات من المشروعات المدرجة في الجدول بحلول عام 2012 يبلغ نحو 500 مليون.

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Annex I

HFC-23 PROJECTS RELATED TO HCFC PRODUCTION REGISTERED WITH THE CDM BOARD*

Project Title	Host Country and Host Country Participants	Other Parties	Original PDD Date/ Date Registered by CDM Board	HCFC 22 Production (annual) in metric tonnes	HFC Annual Reductions in Metric tonnes of CO ₂ e	Crediting period	CERs issued	Estimated market value (OTC) as of 22-01-09 (USD 12.6 per CER)	MLF Projects
Project for GHG emission reduction by thermal oxidation of HFC 23 in Gujarat, India. SWING PLANT	India (Gujarat Fluorochemicals Ltd.)	Switzerland, Japan, Netherlands, Italy, UK (Ineos Fluor Holdings Limited, Sumitomo Corporation, EDF Trading Ltd, Enel Trade S.p.A., Noble Carbon Credits Ltd)	14/11/2003 08/03/2005	20,700	3,000,000	10 years	18,293,674 01/10/2005- 30/09/2008	378 million	IND/PRO/45/INV/390 ExCom 29 (1999) approved a total of \$82 mil. for the CFC production phase-out in India (4 plants), of which \$76 mil. has been disbursed.
Project for GHG Emission Reduction by Thermal Oxidation of HFC23 in Jiangsu Meilan Chemical CO. Ltd., Jiangsu Province, China	China (Jiangsu Meilan Chemical CO. Ltd.)	NL, Spain, Italy, Denmark, Japan, Canada, UK, Finland, Norway, Sweden, Switzerland, Germany, France (International Bank for Reconstruction and Development)	01/07/2004 04/06/2006	30,000	8,411,432	7 years (Renewable)	15,952,466 01/12/2006- 31/08/2008	7 years: 740 million 21 years: 2.2 billion	CPR/PRO/27/INV/356 ExCom 27 (1999) approved \$150 mil. for the entire CFC production phase-out in China, of which \$142.5 mil has been disbursed. No swing plants financed by the MLF in China.
GHG emission reduction by thermal oxidation of HFC 23 at refrigerant (HCFC-22) manufacturing facility of SRF Ltd. SWING PLANT	India (SRF Ltd.)	UK, Germany, NL, Italy, France, Switzerland (ICEAP, Shell, Climate Change Capital Carbon Fund, EDF Trading, Barclays, KfW, Solvay Fluor, Rabobank, Goldman Sachs, BNP Paribas, Citigroup, CER Investments 1, Nuon Energy, Enel Trade S.p.A., Noble Carbon Credits)	01/07/2004 24/12/2005	11,145	3,833,566	10 years	13,527,318 01/07/2004- 30/06/2008	483 million	IND/PRO/45/INV/390 ExCom 29 (1999) approved a total of \$82 mil. for the CFC Phase-out in India (4 plants), of which \$76 mil. has been disbursed.

* or in the COM pipeline as of 22 January 2009

Project Title	Host Country and Host Country Participants	Other Parties	Original PDD Date/ Date Registered by CDM Board	HCFC 22 Production (annual) in metric tonnes	HFC Annual Reductions in Metric tonnes of CO ₂ e	Crediting period	CERs issued	Estimated market value (OTC) as of 22-01-09 (USD 12.6 per CER)	MLF Projects
Quimobásicos HFC Recovery and Decomposition Project SWING PLANT	Mexico (Quimobasicos S.A. de C.V.)	Japan, NL, UK, Switzerland (Electric Power Development Co., Ltd., EcoSecurities Group Plc., Goldman Sachs International, Electrabel SA, EcoSecurities Group Plc)	01/07/2004 14/06/2006	7,570	2,155,363	7 years (Renewable)	4,120,101 14/06/2006- 29/06/2008	7 years: 189 million 21 years: 567 million	MEX/PRO/47/INV/128 ExCom 40 (2003) approved a total of \$31.85 mil. for the CFC Phase-out in Mexico (two plants), of which all has been disbursed.
HFC23 Decomposition Project of Zhejiang Juhua Co., Ltd, P. R. China	China (Zhejiang Juha Co., Ltd.)	Japan (JMD Greenhouse-Gas Reduction, JGC Corp., Marubeni Corp., Daioh Construction)	01/07/2004 03/03/2006	16,000	5,789,682	7 years (Renewable)	13,173,993 01/08/2006- 31/10/2008	7 years: 511 million 21 years: 1.5 billion	See above for CDM project at Jiangsu Meilan Chemical CO. Ltd., China.
Shandong Dongyue HFC23 Decomposition Project	China (Shandong Dongyue Chemical Co. Ltd.)	Japan, UK (Mitsubishi Corp., Nippon Steel Corp., Natsource Europe Ltd.)	01/07/2004 13/03/2006	36,476	10,110,117	7 years (Renewable)	16,059,798 01/01/2007- 31/08/2008	7 years: 882 million 21 years: 2.6 billion	See above for CDM project at Jiangsu Meilan Chemical CO. Ltd., China.
Project for HFC23 Decomposition at Changshu 3F Zhonghao New Chemical Materials Co. Ltd, Changshu, Jiangsu Province, China	China (Changshu 3F Zhonghao New Chemical Materials Co. Ltd.)	NL, Spain, Italy, Denmark, Japan, Canada, UK, Finland, Norway, Sweden, Switzerland, Germany, France (International Bank for Reconstruction and Development)	01/07/2004 08/08/2006	40,000	10,437,249	7 years (Renewable)	20,135,976 22/12/2006- 25/09/2008	7 years: 920 million 21 years: 2.8 billion	See above for CDM project at Jiangsu Meilan Chemical CO. Ltd., China.

Project Title	Host Country and Host Country Participants	Other Parties	Original PDD Date/ Date Registered by CDM Board	HCFC 22 Production (annual) in metric tonnes	HFC Annual Reductions in Metric tonnes of CO ₂ e	Crediting period	CERs issued	Estimated market value (OTC) as of 22-01-09 (USD 12.6 per CER)	MLF Projects
Destruction of HFC-23 at refrigerant (HCFC-22) manufacturing facility of Chemplast Sanmar Ltd. SWING PLANT	India (Chemplast Sanmar Ltd.)	Switzerland, UK (Sempra Energy Europe Limited (SEEL), Vitrol SA)	01/07/2004 16/02/2007	1,695	539,163	10 years	871,503 16/02/2007- 30/09/2008	68 million	IND/PRO/45/INV/390 ExCom 29 (1999) approved a total of \$82 mil. for the CFC production phase-out in India (4 plants), of which \$76 mil. has been disbursed.
Project for HFC23 Decomposition at Zhejiang Dongyang Chemical Co., Ltd., China	China (Zhejiang Dongyang Chemical Co., Ltd.)	Italy, Switzerland, UK, NL (Enel Trade S.p.A.)	01/07/2004 27/10/2006	18,000	3,656,598	7 years (Renewable)	5,870,517 01/11/2006- 27/03/2008	7 years: 322million 21 years: 966 million	See above for CDM project at Jiangsu Meilan Chemical CO. Ltd., China.
Project for HFC23 Decomposition at Limin Chemical Co., Ltd. Linhai, Zhejiang Province, China	China (Limin Chemical Co., Ltd.)	Italy, Switzerland, NL, UK (Enel Trade S.p.A.)	01/07/2004 27/10/2006	26,000	4,783,753	7 years (Renewable)	5,795,396 01/01/2007- 31/03/2008	7 years: 420 million 21 years: 1.3 billion	See above for CDM project at Jiangsu Meilan Chemical CO. Ltd., China.
HFC23 Decomposition Project at Zhonghao Chenguang Research Institute of Chemical Industry, Zigong, SiChuan Province, China	China (Zhonghao Chenguang)	Italy, Switzerland, UK, NL (Enel Trade S.p.A.)	01/07/2004 01/05/2007	18,000	2,065,533	7 years (Renewable)	2,065,282 01/05/2007- 30/04/2008	7 years: 182 million 21 years: 546 million	See above for CDM project at Jiangsu Meilan Chemical CO. Ltd., China.
Frio Industrias Argentinas S.A ("FIASA") Hydro-fluorocarbon 23 ("HFC23") Capture, Storage and Decomposition Project. SWING PLANT	Argentina (Frio Industrias Argentinas S.A.)	Spain (Endesa Generación S.A., Comercio Internacional Proserdi S.L.)	01/07/2004 10/03/2007	4,087	1,434,143	7 years (Renewable)	197,933 15/10/2007- 31/12/2007	7 years: 126 million 21 years: 378 million	ARG/PRO/44/INV/141 ExCom 38 and 53 (2002 & 2007) approved a total of \$10.6 mil. for the CFC phase-out in Argentina (1 plant), of which \$9.6 mil. has been disbursed.

Project Title	Host Country and Host Country Participants	Other Parties	Original PDD Date/ Date Registered by CDM Board	HCFC 22 Production (annual) in metric tonnes	HFC Annual Reductions in Metric tonnes of CO ₂ e	Crediting period	CERs issued	Estimated market value (OTC) as of 22-01-09 (USD 12.6 per CER)	MLF Projects
GHG emission reduction by thermal oxidation of HFC 23 at Navin Fluorine International Ltd (NFIL), Surat, Gujarat, India. SWING PLANT	India (Navin Fluorine International Ltd.)	UK, Japan, Switzerland, France (INEOS Fluor Limited (IFL), E.ON UK plc, Sumitomo Corporation, BHP Billiton Marketing AG ; Mercuria Energy Trading SA, NATIXIS)	28/07/2006 30/03/2007	7,992	2,802,150	10 years	3,250,142 01/05/2007- 30/06/2008	353 million	IND/PRO/45/INV/390 ExCom 29 (1999) approved a total of \$82 mil. for the CFC phase-out in India (4 plants), of which \$76 mil. has been disbursed.
No.2 HFC-23 Decomposition Project of Zhejiang Juhua Co., Ltd. P. R. China	China (Zhejiang Juha Co., Ltd.)	UK, Switzerland, (British Gas Trading Limited, Deutsche Bank AG, Oz Carbon Trading (Lux), Morgan Stanley, (Climate Change Capital China Ltd., Climate Change Capital Carbon Fund 2)	01/07/2004 05/04/2007	13,708	4,809,631	7 years (Renewable)	5,909,168 06/04/2007- 30/06/2008	7 years: 427 million 21 years: 1.3 billion	See above for CDM project at Jiangsu Meilan Chemical CO. Ltd., China.
Changshu Haike HFC 23 Decomposition Project	China (Changshu Haike Chemical Co.Ltd.)	UK (EDF Traiding Ltd.)	28/07/2006 15/02/2008	18,106	3,473,385	7 years (Renewable)	1,093,047 01/05/2008- 30/06/2008	7 years: 308 million 21 years: 924 million	See above for CDM project at Jiangsu Meilan Chemical CO. Ltd., China.
China Fluoro HFC23 abatement project in China	China (China Fluoro Technology Co.Ltd.)	Japan, UK, Switzerland (Mitsui & Co. Ltd., Sumitomo Corp., The Tokyo Electric Power Co. Inc., Climate Change Capital Carbon Fund II, Climate Change Capital Carbon Managed Account, Bear Stearns International Ltd., Climate Change Capital China Ltd.)	28/07/2006 14/09/2007	12,285	4,248,092	7 years (Renewable)	3,240,382 14/09/2007- 30/06/2008	7 years: 375 million 21 years: 1.1 billion	See above for CDM project at Jiangsu Meilan Chemical CO. Ltd., China.
GHG emission reduction by thermal oxidation of HFC 23 at refrigerant (HCFC-22) manufacturing facility of HFL Ltd. (HCFC as feedstock.)	India (HFL Ltd., SRF Ltd.)	N/A	28/07/2006 14/11/2008	1,265	442,310	10 years	N/A	56 million	Not a swing plant.

Project Title	Host Country and Host Country Participants	Other Parties	Original PDD Date/ Date Registered by CDM Board	HCFC 22 Production (annual) in metric tonnes	HFC Annual Reductions in Metric tonnes of CO ₂ e	Crediting period	CERs issued	Estimated market value (OTC) as of 22-01-09 (USD 12.6 per CER)	MLF Projects
Yingpeng HFC23 Decomposition Project	China (Yingpeng)	Italy, Ireland (Enel Trade S.p.A., Infinity Clean Air Development)	28/07/2006 Review requested, not registered.	25,000	7,865,277	7 years (Renewable)	N/A	7 years: 693 million 21 years: 2.1 billion	See above for CDM project at Jiangsu Meilan Chemical CO. Ltd., China.
Quimobásicos HFC Recovery and Decomposition Project SWING PLANT	Mexico (Plant #2 of Quimobásicos S.A de C.V)	N/A	28/07/2006 Under validation, not registered.	5,466	1,351,461	10 years	N/A	170 million	MEX/PRO/47/INV/128 ExCom 40 (2003) approved a total of \$31.85 mil. for the CFC phase-out in Mexico (2 plants), of which all has been disbursed.
Total:				313,495.0	81,208,905		129,556,696	10/7 years: 7.6 billion 10/21 years: 19.8 billion	