

CDM Projects Overview (May, 2007)

1. The newest progress of CDM projects

157 new projects were newly added to the project list in May. Up to the end of May, 2041 projects all around the world have been open for public input on EB website, of which 685 projects have been successfully registered and another 125 are in the pipeline. The estimated CERs from these projects overpass 20,000,000 tonnes until 2012.

Figure 1: Number of CDM projects starting the public comments period each month, the number of them that have requested registration, and the cumulative timelag between these two events.

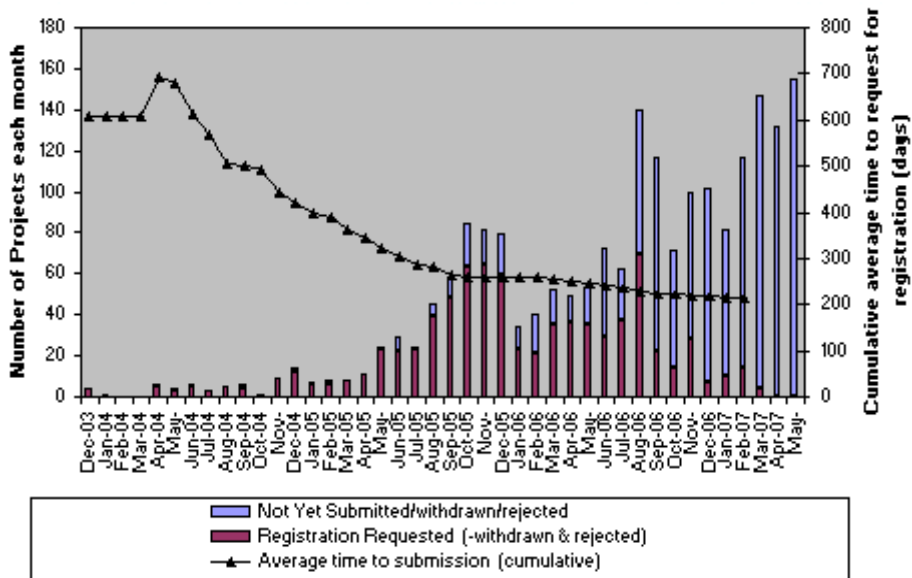
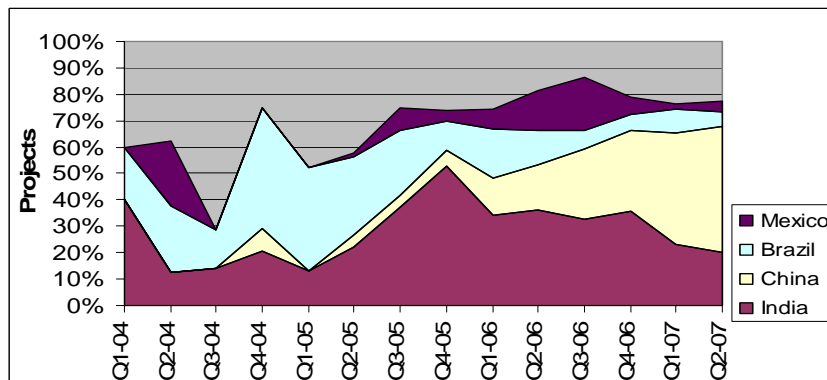
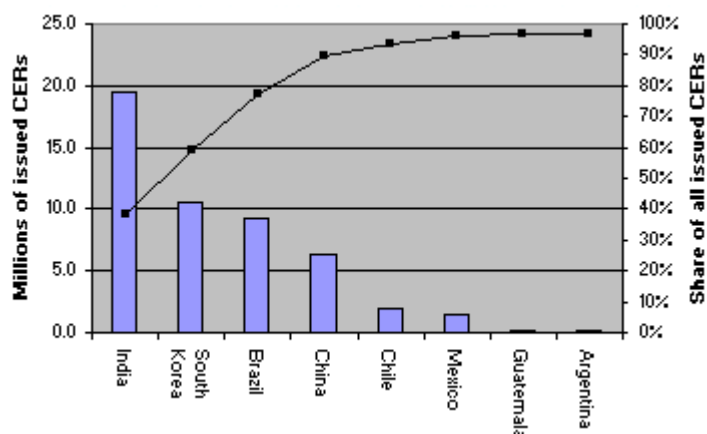


Figure 2: All CDM Projects in the Pipeline in Brazil + Mexico + India + China as a fraction of all projects



The fraction hosted by India, China, Brazil and Mexico has risen from 50% in the start to about 80% now.

Figure 3: Top countries by issued CERs



Most of the CERs (40%) have been issued to projects in India. The line on the graph above shows that when 8 countries are included 98% all of issued CERs are covered.

2. Project overview by type

Table1: CDM projects grouped in types

Type	Number		CERs/yr (000)		2012 CERs (000)		CERs Issued (000)	
N2O	37	2%	41580	12%	246067	12%	9190	18%
HFCs	18	1%	81328	24%	504247	25%	25906	51%
PFCs	1	0%	86	0%	542	0%	0	0%
Subtotal	56	3%	122994	37%	750856	37%	35097	69%
Agriculture	176	9%	5829	2%	40727	2%	1929	4%
Landfill Gas	146	7%	30748	9%	187193	9%	2039	4%
Coal bed/mine Methane	40	2%	20673	6%	118142	6%	0	0%
Cement	31	2%	4142	1%	32443	2%	469	1%
Fugitive	20	1%	10882	3%	77517	4%	278	1%
Subtotal	413	20%	72273	22%	456021	23%	4714	9%
Biomass Energy	409	20%	23489	7%	149893	7%	5491	12%
Hydro	418	21%	31420	9%	172482	9%	2237	4%
Wind	236	12%	18480	6%	110603	6%	1444	3%
Geothermal	8	0%	1774	1%	10976	1%	102	0%
Solar	7	0%	179	0%	1111	0%	0	0%
Biogas	113	6%	6489	2%	36303	2%	228	0%
Tidal	1	0%	315	0%	1104	0%	0	0%
Subtotal	1192	59%	82147	25%	482471	24%	9952	20%
Energy Distribution	1	0%	55	0%	655	0%	0	0%
EE Supply Side	20	1%	1163	0%	6314	0%	30	0%
EE OwnGeneration	148	7%	26424	8%	149794	7%	693	1%

EE Industry	96	5%	2814	1%	17327	1%	221	0%
EE Service	12	1%	48	0%	362	0%	0	0%
EE Households	4	0%	87	0%	510	0%	0	0%
Transport	1	0%	295	0%	2019	0%	0	0%
Subtotal	285	14%	30886	9.3%	176981	9%	944	2%
Fossil Fuel Switch	69	3%	24464	7%	137411	7%	240	0%
Afforestation & Reforestation	7	0%	831	0%	5392	0%	0	0%
Total	2022	100%	333596	100%	2009132	100%	50947	100%

From the above table, we can see that although renewable energy projects occupy 59% of the total, the accumulated 2012 CERs of this type only occupy 24% of the whole.

3. Buyers information overview

The following table shows the 15 most active buyers.

Table 2: 15 top active buyers

Top 15 buyers	Projects
EcoSecurities	146
IBRD (International Bank of Reconstruction and Development)	55
Agrinergy	41
Cargill International	40
EDF Trading	38
Carbon Asset Management Sweden	38
ENEL	34
Trading Emissions	34
Energy Systems International	28
Kummunkredit	25
CAMCO	20
Noble Carbon	20
Mitsubishi UFJ Securities	18
Danida	18
Mitsubishi	17

4. The approved CDM methodologies overview

Table 3: All the approved full scale CDM methodologies arranged according to type

Meth No.	Sectors covered	No. of projects
ACM2 (ver 6)	Zero emission renewables: Grid-connected electricity generation for renewable sources (no biomass)	441

AM26 (ver 2)	Zero-emissions grid-connected electricity generation from renewable sources in Chile or in countries with merit order based dispatch grid	1
AM5	Small grid-connected zero-emission renewable electricity generation	6
AM19 (ver 2)	Ren. Energy project replacing the electricity of one single fossil plant (excl. biomass)	0
	Biomass: (not applicable for non-renewable biomass, EB21)	
AM4 (ver 2)	Grid-connected biomass power generation that avoids uncontrolled burning of biomass	2
AM7	Switch from coal/lignite to seasonal agro-biomass power	0
AM15	Bagasse-based cogeneration connected to an electricity grid	30
ACM6 (ver 4)	Grid-connected electricity from biomass residues (includes AM4 & AM15)	130
AM27 (ver 2)	Substitution of CO2 from fossil or mineral origin by CO2 from renewable resources in production of inorganic compounds	1
AM36	Fuel switch from fossil fuels to biomass residues in boilers for heat generation	6
AM42	Grid-connected electricity generation using biomass from newly developed dedicated plantations	0
	Biofuels:	
AM47	Production of waste cooking oil based biodiesel for use as fuel	
	Waste:	
ACM1 (ver 5)	Landfill gas project activities	98
AM2 (ver 3)	Landfill gas capture & flaring with public concession contract (ex-post baseline correction)	1
AM3 (ver 4)	Simplified financial analysis for landfill gas capture projects (no CERs from electricity) (ex-ante correction)	5
AM10	Landfill gas electricity (CERs from electricity)	2
AM11 (ver 3)	Landfill gas recovery with electricity generation (no CERs from electricity)	7
AM12	Biodigester power from municipal waste (only India)	1
AM22 (ver 4)	Avoided wastewater and on-site energy use emissions in the industrial sector	11
AM25 (ver 5)	Avoided emissions from organic waste through alternative waste treatment processes	13
AM39	Methane emissions reduction from organic waste water and bioorganic solid waste using co-composting	5
	Animal waste:	
AM6	GHG emission reduction from manure management systems (on hold)	14
AM13 (ver 4)	Biogas power from open anaerobic lagoon waste water treatment systems	10
ACM10 (ver 2)	GHG emission reductions from manure management systems	4
AM16 (ver 3)	Change of animal waste management systems	40
	Fossil fuel switch:	
AM8	Fuel switch from coal/oil to natural gas	14
ACM9 (ver 3)	Industrial fuel switching from coal or petroleum fuels to natural gas	11
AM29	Grid connected electricity generation plants using natural gas	22
AM50	Feed switch in integrated Ammonia-urea manufacturing industry	0
	Fugitive emission from fuels:	
AM9 (ver 2)	Recovering associated gas in stead of flaring	15

AM37	Flare reduction and gas utilization at oil and gas processing facilities	3
ACM8 (ver 3)	Coal bed methane and coal mine methane capture and use for power (electrical or motive) and heat/or destruction by flaring	38
AM41	Mitigation of Methane Emissions in the Wood Carbonization Activity for Charcoal Production	1
Energy distribution:		
AM23	Leak reduction from natural gas pipeline compressor or gate stations	0
AM43	Leak reduction from a natural gas distribution grid by replacing old cast iron pipes with polyethylene pipes	0
AM45	Grid connection of isolated electricity systems	1
HFCs, PFCs & SF6:		
AM1 (ver 5)	Incineration of HFC23 waste streams from HCFC22 production	18
AM30	PFC emission reduction from anode effect mitigation at primary aluminium smelting facilities	1
AM35	SF6 Emission Reductions in Electrical Grids	0
Cement:		
ACM5 (ver 3)	Increasing the blend in cement production	32
AM33	Use of non-carbonated calcium sources in the raw mix for cement processing	1
AM40	Use of alternative raw materials that contain carbonates in clinker manufacturing in cement kilns	0
AM51	Secondary catalytic N2O destruction in nitric acid plants	0
N2O:		
AM28 (ver 4)	Catalytic N2O destruction in the tail gas of nitric acid or caprolactam production plants	10
AM34 (ver2)	Catalytic reduction of N2O inside the ammonia burner of nitric acid plants	24
AM21	Decomposition of N2O from existing adipic acid production plants	4
Energy efficiency, Supply side		
ACM7	Conversion from single cycle to combined cycle power generation	4
AM14 (ver 2)	Natural gas-based package cogeneration	40
AM48	New cogeneration facilities supplying electricity and/or steam to multiple customers and displacing grid/off-grid steam and electricity generation with more carbon-intensive fuels	0
AM49	Gas based energy generation in an industrial facility	0
AM52	Increased electricity generation from existing hydropower stations through Decision Support System optimization	0
Energy efficiency, OwnProduction (of electricity)		
ACM4 (ver 2)	Waste gas and/or heat for power generation	148
AM24	Waste gas recovery and utilization for power generation at cement plant	3
AM32	Waste gas or waste heat based cogeneration system	1
Energy efficiency, Industry:		
AM17 (ver 2)	Steam system efficiency improvement by replacing steam traps and returning condensate	0
AM18	Baseline methodology for steam optimization systems	14
ACM3 (ver 4)	Emission reduction through partial substitution of fossil fuels with alternative fuels in	12

AM38	cement manufacture Improved electrical energy efficiency of an existing submerged electric arc furnace used for the production of SiMn	1
AM44	Energy efficiency improvement projects: boiler rehabilitation or replacement in industrial and district heating sectors	0
AM46	Energy efficiency, Households: Replacement of incandescent lamps by compact fluorescent lamps	
AM20	Energy efficiency, Service: Water pumping efficiency improvement	0
AM31	Transport: Baseline Methodology for Bus Rapid Transit Project	1
AR-AM1 (ver 2)	Afforestation & Reforestation: Reforestation of degraded land	3
AR-AM2	Restoration of degraded lands through afforestation/reforestation	1
AR-AM3 (ver 2)	Afforestation and reforestation of degraded land through tree planting, assisted natural regeneration and control of animal grazing	0
AR-AM4	Reforestation or afforestation of land currently under agricultural use	1
AR-AM5	Afforestation and reforestation project activities implemented for industrial and/or commercial uses	0
AR-AM6	Afforestation/Reforestation with Trees Supported by Shrubs on Degraded Land	0
AR-AM7	Afforestation and Reforestation of Land Currently Under Agricultural or Pastoral Use	0
	Total:	1252

Up to now, there are 47 approved full scale methodologies altogether and 10 integrated ones. Since some have been amended by EB for more than once, we marked the version number for them for readers' reference.

Table 4: The approved small scale CDM methodologies

Type	Small-scale CDM Methodology	No. of Projects
Type I: Renewable energy projects <15 MW	A. Electricity generation by the user	15
	B. Mechanical energy for the user	4
	C. Thermal energy for the user	92
	D. Renewable electricity generation for a grid	590
Type II: Energy efficiency improvement projects <60 GWh savings	A. Supply side energy efficiency improvements - transmission and distribution	0
	B. Supply side energy efficiency improvements - generation	13
	C. Demand-side energy efficiency programmes for specific technologies	9
	D. Energy efficiency and fuel switching measures for industrial facilities	75
	E. Energy efficiency and fuel switching measures for buildings	16
	F. Energy efficiency and fuel switching measures for agricultural facilities and activities	1
Type III:	A. Agriculture (no methodologies available)	0
	B. Switching fossil fuels	26

<60 ktCO2 reduction	C. Emission reductions by low-greenhouse emission vehicles	3
	D. Methane recovery	176
	E. Avoidance of methane production from biomass decay through controlled combustion	51
	F. Avoidance of methane production from biomass decay through composting	10
	G. Landfill methane recovery	2
	H. Methane recovery in wastewater treatment	24
	I. Avoidance of methane production in wastewater treatment through replacement of anaerobic lagoons by aerobic systems	1
	J. Avoidance of fossil fuel combustion for carbon dioxide production to be used as raw material for industrial processes	0
	K. Avoidance of methane release from charcoal production by shifting from pit method to mechanized charcoaling process	1
Total		1109

Of all the 2022 CDM projects, 914 are Small scale projects. From the above Table 4, the biggest group of small scale CDM projects is renewable energy ones, covering two thirds of the whole.

Note: This is a rough abstract. The Chinese original text is in the "Project Information" column in Chinese version of CDM in China.

(Source: Dr, Zhu Xianli compiled the article according to the newest documents in CDM Pipeline 31-05-2007 by Joergen Fenhann, an expert from UNEP Risoe Centre. All the information can be sourced from www.cdmpipeline.org, www.cd4cdm.org and www.uneprisoe.org for free.)