Technical University of Denmark



CDM and future carbon markets

Fenhann, Jørgen Villy

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CDM and future carbon markets

4th National Workshop for CDM and Multilateral Environmental Agreements 27 November 2013 Cara Suites Hotel Trinidad and Tobago

Joergen Fenhann, UNEP Risoe Centre



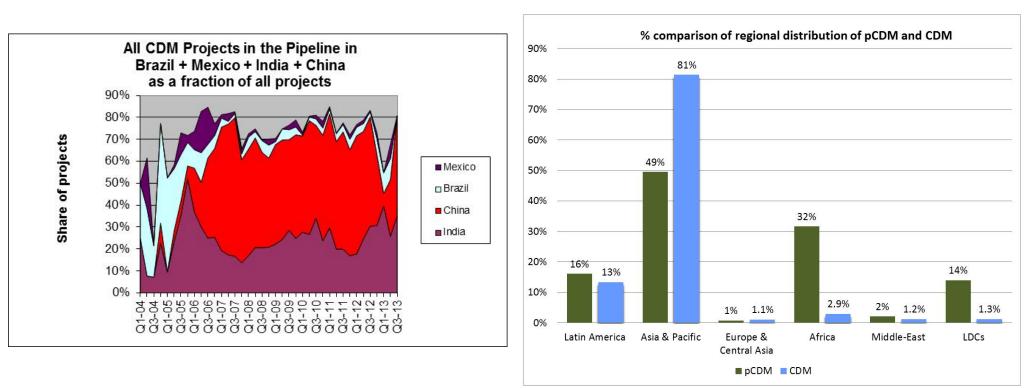
It takes about 3-4 years from a Mechanism is approved until it is mature.

Number of CDM PoAs starting the public comments period each month The market follows the regulation closely. each month Number of CDM projects starting the public comments period each month, the number of them that have requested registration, and the number of them that have Number of Projects CERs issued. Number of Projects each month Number of different PoAs. Number of new CPAs included New CPAs □Number of projects with CERs issued Registration Requested but no issuance Rejected validation by DOEs Still at validation 29 of 386 PoAs have include 1339 more CPAs:





Some regions were left behind in CDM, but PoAs work better.



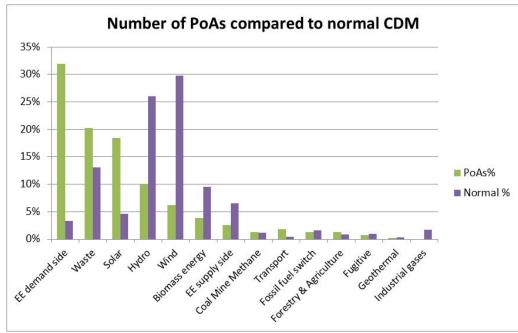






Some CDM types (like transport and forest) did not move:

But some types worked better for PoAs:



CDM has started to be sectoral.



Туре	num	ber	CERs/yr (000)	
Wind	2607	29%	237898	19%
Hydro	2285	26%	326092	26%
Biomass energy	850	10%	56721	5%
Methane avoidance	736	8%	31327	3%
EE own generation	437	5%	57485	5%
Landfill gas	423	5%	61892	5%
Solar	403	4.6%	13295	1.1%
EE Industry	150	1.7%	5853	0%
Fossil fuel switch	144	1.6%	74278	6%
EE Supply side (power plants)	124	1.4%	62046	5%
EE Households	104	1.2%	3896	0.3%
Coal bed/mine methane	109	1.2%	69214	6%
N2O	108	1.2%	57634	5%
Afforestation & Reforestation	71	0.8%	5135	0.4%
Fugitive	59	0.7%	47143	4%
EE Service	41	0.5%	1951	0.16%
Cement	38	0.4%	6118	0%
Transport	37	0.4%	5060	0.4%
Geothermal	35	0.4%	12401	1.0%
Energy distrib.	28	0.3%	10267	1%
HFCs	23	0.3%	81334	7%
PFCs and SF6	18	0.2%	5540	0%
Mixed renewables	10	0.11%	553	0.0%
CO2 usage	3	0.0%	80	0.0%
Tidal	1	0.01%	315	0.0%
Agriculture	2	0.02%	58	0.0%
Total	8846	100%	1233587	100%
HFCs, PFCs, SF& & N2O reduction	149	1.7%	144508	12%
Renewables	6191	70%	647277	52%
CH4 reduction & Cement & Coal mine/bed	1370	15%	215831	17%
Supply-side EE	589	7%	129798	11%
Fuel switch	144	1.6%	74278	6.0%
Demand-side EE	295	3.3%	11700	0.9%
Afforestation & Reforestation	71	0.8%	5135	0.4%
Transport	37	0.4%	5060	0.4%





The CDM has created a lot of knowledge

- The Pipeline shows that 2000 PDD consultants have been established
- The Pipeline shows that 625 CER buyers have been registered
- The Pipeline contains 46 Designated Operational Entities (64 applied)
- In the developed countries the knowledge level on GHG reduction has been improved
- A large number of methodologies have been developed:
 - 92 large-scale methodologies have been approved (361 submitted)
 - 22 consolidated large-scale methodologies have been approved
 - 88 small-scale methodologies have been approved (83 submitted)
 - 1 large-scale forest methodologies have been exists (39 submitted)
 - 1 consolidated large-scale forest methodologies exists
 - 2 small-scale forest methodologies exist

It takes a long time to develop methodologies (200-300 days), one is at version 19!







It has been a learning process:

- The fraction of projects that are registered automatically is again close to the old 90% after the low of 31% in 2008.
- The total time to get a CDM projects registered are now down to about 50 days: (historic average 495 days).
- The time it takes to get the issuance is also decreasing.
- According to INTERPOOLs new report: An effective and comprehensive global regulatory system is needed to prevent crime. The CDM learned to do that.
- About 400 billion US\$ has been invested in constructing the registered projects. Of these, 44 billion US\$ happened in Latin America.

Finally the most important lesson: There must be a balance between supply and demand for credits!

About 1.4 Gigatonne of GHG emissions have been reduced by CDM in about 7 years, or about 0.2 GtCO2e per year. This is however much smaller than the global emission GAP of 7.4 GtCO2e.







The Future

CDM has entered its 2nd crediting period 2013-2020

Voluntary Cancellations of CERs is now possible, 0.3 MtCO2 has been canceled.

Quebec is joining the Californian carbon market and Australia is joining the EU-ETS.

Carbon Markets are starting in Chinese provinces (Hubei and Guangdong) and cities (Beijing, Tianjin, Shanghai, Chongqing, and Shenzhen), and an overall Chinese Voluntary market are using 52 approved CDM methodologies.







The Future

PMR = World Bank Partnership for Market Readiness is assisting the following countries in building carbon markets:

Brazil, Chile, China, Colombia, Costa Rica, India, Indonesia, Jordan, Mexico, Morocco, South Africa, Thailand, Turkey, Ukraine and Vietnam.

South Korea and Kazakhstan is building its carbon markets.

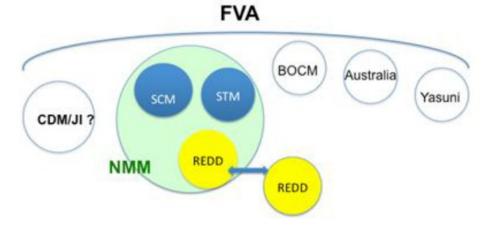






Negotiation of NMM = New market Mechanisms & FVA = Framework for Various Approaches

Through the FVA, units created in a country can qualify, under certain conditions, to be used for compliance with UNFCCC obligations, by a jurisdiction other than the one where they were created.



SCM = Sectoral Crediting Mechanism STM = Sectoral Trading Mechanism





National Appropriate Mitigation Action (NAMA)

NAMAs is a way to implement the GHG reduction pledge of your country. UNFCCC has established a NAMA Registry for the submitted NAMAs now containing: The table are from www.namapipeline.org

Submitted NAMAs	External support			
Host country	For preparation	For implementation	For recognition	Total
Latin America	3	9	3	15
Chile		3	1	4
Dominica		1		1
Dominican Republic		2		2
Mexico		2		2
Uruguay	3	1	2	6
Asia & Pacific	0	2	0	2
Cook Islands		1		1
Indonesia		1		1
Europe & Central Asia	0	12	1	13
Serbia		12	1	13
Africa	3	0	0	3
Mali	2			2
Ethiopia	1			1
Middle East	6	3	0	9
Jordan	6	3		9
Total	12	26	4	42
Least Developed Countries	3	0	0	3

