Updates on Pre2020 CER Analysis

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Estimation of supply potential of pre2020 CERs

Background

Towards the agreement on Article 6 at COP26, it is crucial to have a common understandings among parties regarding the possible amount of pre2020 CERs according to the different scenario.

	Starting year / Registration year	Year		
Draft text ver.2	Project registration year	[2016] or [X]		
Draft text ver.3	Condition of registration date will be determined by the CMA			
Ref. CORSIA	Starting year of the crediting period	2016		

Technical analysis

- Analyzing the actual supply potential of pre2020 CERs from CDM Project Activities (PAs) and Programme of Activities (PoAs), considering factors affecting the issuance.
- Facilitating common understandings about the range of the amount of potential pre2020 CER supply by comparing numbers calculated by various organizations for the next step in the negotiation process.

Calculation result from the data as of January 2020

The supply potential of pre2020 CERs can be calculated from expected emission reduction data in PDDs, incorporating following factors.

- 1) Project implementation status and operation status,
- 2) Impact of Credit Period Renewal Procedure,
- 3) Impact of missing data on monitoring,
- 4) Factors affecting credit issuance of registered projects,
- 5) Estimation of additional supply potential from project pipeline

As of January 2020

Adjusted supply potential of pre-2020 CERs (including the supply potential from project pipelines)

Project registration year (Mt-CO2)			Starting year of first crediting period (Mt-CO2)		
Registration Year	Issued	Potential	Starting Year	Issued	Potential
2013	14.4	375	2013	81.7	1,577
2014	7.4	156	2014	20.4	661
2015	5.5	95	2015	8.4	300
2016	1.8	46	2016	2.1	134
2017	0.3	24	2017	0.6	57
2018	0.0	17	2018	0.0	36
2019	0.0	10	2019	0.0	23
2020	0	6	2020	0	7

Update from the previous analysis

Databa	Database					
	January 2020	October 2020				
Projec	Project implementation status and operation status					
	6.8%	6.8%				
Impac	Impact of Credit Period Renewal Procedure					
	Average (3.5%) (estimate the supply potential in renewable CP and apply this factor)	This factor has no effect on results for projects that registered after 2013 as these projects remain within the first crediting period. (It does reduce the estimated supply potential for scenarios that include CERs from projects that registered prior to 2013)				
Impac	Impact of missing data on monitoring					
	4.3%	4.3%				
Factor	Factors affecting credit issuance of registered projects					
	Average (PA: 11.6%, PoA: 67.2%) Each project type					
Estima	Estimation of additional supply potential from project pipeline					
	Considered 븆	Reflected the estimation of supply potential from project pipelines from January until September. (the supply potential from projects registered between January and October 2020 is 2 Mt-CO2 (13 projects))				

*: Para 28 of the meeting report of 100th meeting of the CDM Executive Board

As of January 2020

Adjusted supply potential of pre-2020 CERs (including the supply potential from project pipelines)

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As of October 2020

Adjusted supply potential of pre-2020 CERs (excluding the supply potential from project pipelines)

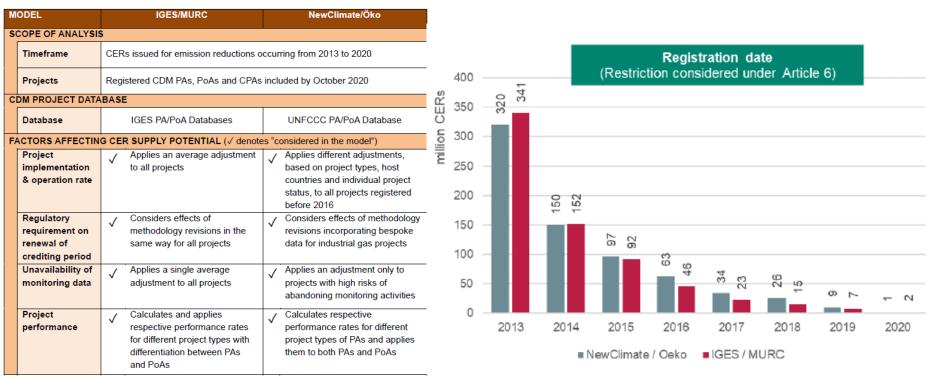
Project registration year (Mt-CO2)			Starting year of first crediting period (Mt-CO2)		
Registration Year	Issued	Potential	Starting Year	Issued	Potential
2013	14.4	341	2013	81.7	1,483
2014	7.4	152	2014	20.4	633
2015	5.5	92	2015	8.4	305
2016	1.8	46	2016	2.1	140
2017	0.3	23	2017	0.6	58
2018	0.0	15	2018	0.0	37
2019	0.0	7	2019	0.0	23
2020	0	2	2020	0	6
💥 cumulative numbers					5

Comparison of numbers

 IGES / MURC and New Climate / Oeko institute analyzed the difference of calculation results of pre2020 CERs and its methodologies*.

There are some differences in methodologies, however, numbers are similar.

Table 1: Comparison of modelling data and methods



*Institute for Global Environmental Strategies (IGES), Mitsubishi UFJ Research and Consulting Co., Ltd., NewClimate - Institute for Climate Policy and Global Sustainability gGmbH and Öko-Institut e.V., CDM supply potential for emission reductions up to the end of 2020, 2020