



# CDM Transition

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## ERCST

Roundtable on  
Climate Change and  
Sustainable Transition

# Ex-ante estimate of emission reductions

- The ex-ante estimate of supply of emission reductions from the registered project activities (PA) and programme of activities (PoAs) based on numbers provided in the design documents are about 18 billion tCO<sub>2</sub>e (16 billion tCO<sub>2</sub>e till 2030). The split across the different periods is as follows:

Description	Qualifier	KP1	KP2	Post 2020	Total
Registered PAs (7816) & PoAs (328)	Active projects	2.183	5.841	0.593	8.617
	2506 CPAs	0.006	0.321	1.088	1.414
<b>Sub-total</b>	-	<b>2.186</b>	<b>6.162</b>	<b>1.681</b>	<b>10.032</b>
Projects pending renewal	Dormant projects	0.003	1.330	6.689	8.023
<b>Total</b>	-	<b>2.192</b>	<b>7.492</b>	<b>8.370</b>	<b>18.054</b>

- The dormant projects bring in high amount of uncertainty for post 2020 projections owing to pending renewal and limited activity.

## Ex-ante estimate of emission reductions

- The exclusion of certain type of projects such as HFC23, N2O, large hydro (> 15 MW) would reduce the available credits by about 7 billion tCO2e. The split across the different periods is as follows:

Description	Qualifier	KP1	KP2	Post 2020	Total
HFC23 (19)	-	0.476	0.538	0.447	1.461
N2O (104)	Nitric acid, Adipic acid, Caprolactum	0.252	0.457	0.426	1.136
Large hydro (1073)	> 15 MW	0.273	1.716	2.332	4.320
<b>Total</b>	-	<b>1.001</b>	<b>2.711</b>	<b>3.205</b>	<b>6.917</b>

- The post 2020 projection after the exclusion is about 5 billion tCO2e.

# Ex-post issuance of certified emission reductions

- There has been issuance of about 2 billion tCO2e so far and majority coming from HFC23, N2O and large hydro, with the split as follows:

Description	KP1	KP2	Total
Registered projects (3074)	1.482	0.550	2.032
HFC23 (19) + N2O (104) + Large hydro (470)	0.934 (63%)	0.225 (41%)	1.159 (57%)
Issuance of other project types	0.548	0.325	0.873

- About 57% of the issuances has been from HFC23, N2O and large hydro projects.

# Comparison of Ex-ante and Ex-post ER numbers

- The forecast and the actual issuances compare, as follows:

Description	KP1 + KP2 (Ex-ante estimate)	KP1 + KP2 (Ex-post issuance)	Percentage issuance of estimate
All projects	9.684	2.032	<b>21%</b>
Exclusion - HFC23 + N2O + Large hydro (Unusable)	3.712	1.159	<b>31%</b>
All projects after exclusion (Usable)	5.972	0.873	<b>12%</b>
<b>Usable ratio</b>	<b>62%</b>	<b>43%</b>	

- About 57% of the issuances has been from HFC23, N2O and large hydro projects.
- It can be observed that of the forecast of 9.7 billion tCO2e only 2.0 billion tCO2e has been issued, of which only 43% pertains to usable credits

# Comparison of Ex-ante and Ex-post ER numbers

- The issuance ratio for KP1 and KP2 has been as follows:

Description	KP1	KP2	KP1 + KP2
Registered projects	68%	7%	25%
HFC23	107%	6%	53%
N2O	103%	21%	50%
Large hydro	61%	6%	13%

- Due to unfavourable market conditions, the issuances in KP2 have been dismal and for many projects the continuity or monitoring may have been hampered.

## Ex-ante estimate of emission reductions (2013)

- The ex-ante estimate of supply of emission reductions from the registered activities on/after 01<sup>st</sup> Jan 2013 is as follows:

Description	Qualifier	KP1	KP2	Post 2020	Total
Registered PAs (658)	-	0.003 (A/R projects)	0.414	0.582	0.999
Registered PoAs	462 CPAs	0	0.091	0.478	0.570
<b>Total</b>	-	<b>0.003</b>	<b>0.505</b>	<b>1.060</b>	<b>1.568</b>
<b>Exclusion</b>	HFC, N2O, Large hydro	(0)	(0.129)	(0.241)	(0.370)
<b>Usable credits</b>		<b>0.003</b>	<b>0.376</b>	<b>0.820</b>	<b>1.199</b>

## Ex-ante estimate of emission reductions (2016)

- The ex-ante estimate of supply of emission reductions from the registered activities on/after 01<sup>st</sup> Jan 2016 is as follows:

Description	Qualifier	KP1	KP2	Post 2020	Total
Registered PAs (115)	-	0	0.043	0.108	0.151
Registered PoAs	162 CPAs	0	0.042	0.225	0.267
<b>Total</b>	-	<b>0</b>	<b>0.085</b>	<b>0.333</b>	<b>0.418</b>
<b>Exclusion</b>	HFC, N2O, Large hydro	(0)	(0.023)	(0.074)	(0.097)
<b>Usable credits</b>		<b>0</b>	<b>0.062</b>	<b>0.258</b>	<b>0.321</b>