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11 Jan 2019

INFORMATION ON EMISSION FACTORS (For CDM projects in Singapore)

Electricity Grid Emission Factors

Singapore's electricity grid emission factors* calculated using data from the power generators in Singapore, are:

	Simple Operating Margin (OM) kg CO_2/kWh	Build Margin (BM) kg CO_2/kWh
2005	0.5255	0.4205
2006	0.5300	0.4225
2007	0.5046	0.4352
2008	0.4965	0.4264
2009	0.4973	0.4208
2010	0.5083	0.4319
2011	0.5085	0.4578
2012	0.4778	0.4164
2013	0.4388	0.4137
2014	0.4277	0.4086
2015	0.4224	0.3941
2016	0.4237	0.3977
2017	0.4192	0.4018

Figures provided by Energy Market Authority, EMA

The above factors are computed in accordance with UNFCCC CDM Methodological Tool titled "Tool to calculate the emission factor for an electricity system".

Upstream Fugitive Methane Emission Factor

Singapore's emission factor for upstream fugitive methane emissions* calculated using data from the power generators in Singapore, are:

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	Upstream Fugitive Methane Emission Factor kg CH_4/kWh
2005	0.00216
2006	0.00218
2007	0.00225
2008	0.00221
2009	0.00222
2010	0.00222
2011	0.00228
2012	0.00218
2013	0.00218
2014	0.00220
2015	0.00217
2016	0.00216
2017	0.00198

Figures provided by EMA

The above factors are computed in accordance with UNFCCC CDM AM0029 "Baseline Methodology for Grid Connected Electricity Generation Plants using Natural Gas".

Record of Amendments to Information on Electricity Grid Emission Factors and Upstream Fugitive Methane Emission Factor

15 Dec 2017	2012-2015 Electricity Grid Emission Factors and Upstream Fugitive Methane Emission Factors revised** 2016 Electricity Grid Emission Factors and Upstream Fugitive Methane Emission Factor uploaded
11 Jan 2019	2016 Electricity Grid Emission Factors revised** 2017 Electricity Grid Emission Factors and Upstream Fugitive Methane Emission Factor uploaded

* Request for viewing the basis of computation of the emission factors at the Energy Market Authority for the validation of relevant CDM projects can be made through the DNA.

** Request for factors before the revision can be made through the DNA.