

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:

2008	a. Simple Operating Margin (OM)	0.5016 kg CO ₂ /kWh
	b. Build Margin (BM)	0.4111 kg CO ₂ /kWh
2007	a. Simple Operating Margin (OM)	0.5233 kg CO ₂ /kWh
	b. Build Margin (BM)	0.3990 kg CO ₂ /kWh
2005	a. Simple Operating Margin (OM)	0.5231 kg CO ₂ /kWh
	b. Build Margin (BM)	0.4527 kg CO ₂ /kWh

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:

2008	0.00217 kg CH ₄ /kWh
2007	0.00211 kg CH ₄ /kWh
2005	0.00239 kg CH ₄ /kWh

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

*For the validation of relevant CDM projects, DOEs can request to view the basis of computation of the emission factors at the Energy Market Authority. Please address requests to the DNA.

Record of Amendments to Information on Emission Factors

Electricity Grid Emission Factors:

- 3 Sep 2008 - 2005 Electricity Grid Emission Factors (calculated based on methodological tool "Tool to calculate emission factor for an electricity system")
- 01 Jan 2009 - 2005 Electricity Grid Emission Factor augmented with 2007 Electricity Grid Emission Factor (calculated based on methodological tool "Tool to calculate emission factor for an electricity system")
- 01 Jan 2010 - 2007 Electricity Grid Emission Factor augmented with 2008 Electricity Grid Emission Factor (calculated based on methodological tool "Tool to calculate emission factor for an electricity system")

Upstream Fugitive Methane Emission Factor:

- 10 Nov 2008 - 2005 Upstream Fugitive Methane Emission Factor uploaded
- 01 Jan 2009 - 2005 Upstream Fugitive Methane Emission Factor augmented with 2007 Upstream Fugitive Methane Emission Factor
- 01 Jan 2010 - 2007 Upstream Fugitive Methane Emission Factor augmented with 2008 Upstream Fugitive Methane Emission Factor