

Table 3.2.1 Summary of key categories in 2011, by tier1/ tier2, level and trend, excluding LULUCF

IPCC Categories	Direct GHG gas	Identification criteria
<b>1. Energy</b>		
1.A.1.a Public Electricity and Heat Production- solid fuels	CO <sub>2</sub>	Level, Trend
1.A.1.a Public Electricity and Heat Production- liquid fuels	CO <sub>2</sub>	Level, Trend
1.A.1.a Public Electricity and Heat Production- gaseous fuels	CO <sub>2</sub>	Level, Trend
1.A.1.b Petroleum Refining - gaseous	CO <sub>2</sub>	Level
1.A.1.b Petroleum refining - liquid fuels	CO <sub>2</sub>	Level
1.A.1.c Manufacture of Solid Fuels and Other Energy Industries- liquid fuels	CO <sub>2</sub>	Level, Trend
1.A.1.c Manufacture of Solid Fuels and Other Energy Industries- gaseous fuels	CO <sub>2</sub>	Level
1.A.1.c Manufacture of Solid fuels and Other Energy Industries - solid fuels	CO <sub>2</sub>	Trend
1.A.2.a Iron and Steel - solid fuels	CO <sub>2</sub>	Level, Trend
1.A.2.a Iron and Steel- gaseous fuels	CO <sub>2</sub>	Level, Trend
1.A.2.c Chemicals - gaseous fuels	CO <sub>2</sub>	Level, Trend
1.A.2.c Chemicals - liquid fuels	CO <sub>2</sub>	Level
1.A.2.c Chemicals- solid fuels	CO <sub>2</sub>	Level
1.A.2.e Food Processing, Beverages and Tobacco- gaseous fuels	CO <sub>2</sub>	Level
1.A.2.f Other - gaseous fuels	CO <sub>2</sub>	Level, Trend
1.A.2.f Other - liquid fuels	CO <sub>2</sub>	Level, Trend
1.A.2.f Other - solid fuels	CO <sub>2</sub>	Level, Trend
1.A.3.a Civil Aviation - jet kerosene	CO <sub>2</sub>	Trend
1.A.3.b Road Transportation - gasoline fuels	CO <sub>2</sub>	Level, Trend

IPCC Categories	Direct GHG gas	Identification criteria
1.A.3.b Road Transportation - diesel oil	CO <sub>2</sub>	Level
1.A.3.c Railways - liquid fuels	CO <sub>2</sub>	Level, Trend
1.A.4.a Commercial/ Institutional- gaseous fuels	CO <sub>2</sub>	Level
1.A.4.b Residential - gaseous fuels	CO <sub>2</sub>	Level, Trend
1.A.4.b Residential- liquid fuels	CO <sub>2</sub>	Level, Trend
1.A.4.b Residential - solid fuels	CO <sub>2</sub>	Trend
1.A.4.b Residential - biomass	CH <sub>4</sub>	Level, Trend
1.A.4.b Residential - biomass	N <sub>2</sub> O	Trend
1.A.4.c Agriculture/Forestry/Fisheries - liquid fuels	CO <sub>2</sub>	Level, Trend
1.A.4.c Agriculture/Forestry/Fisheries - gaseous fuels	CO <sub>2</sub>	Trend
1.A.5.a Stationary - liquid fuels	CO <sub>2</sub>	Level
1.B.1.a Coal Mining	CH <sub>4</sub>	Level, Trend
1.B.2.a Oil	CH <sub>4</sub>	Level, Trend
1.B.2.a Oil	CO <sub>2</sub>	Level
1.B.2.b Natural Gas	CH <sub>4</sub>	Level, Trend
1.B.2.c Venting - venting	CH <sub>4</sub>	Level, Trend
<b>2. Industrial Processes</b>		
2.A.1 Cement Production	CO <sub>2</sub>	Level, Trend
2.A.2 Lime Production	CO <sub>2</sub>	Level, Trend
2.A.3 Limestone and Dolomite Use	CO <sub>2</sub>	Trend
2.B.1 Ammonia Production	CO <sub>2</sub>	Level, Trend
2.B.2 Nitric Acid Production	N <sub>2</sub> O	Level, Trend
2.C.1 Iron and Steel Production	CO <sub>2</sub>	Level, Trend
2.C.2 Ferroalloys Production	CO <sub>2</sub>	Trend
2.C.3 Aluminium Production	PFC	Trend
2.F.1 Refrigeration and Air Conditioning Equipment	HFC	Level, Trend
2.F.2 Foam Blowing	HFC	Trend
2.F.9 Other	HFC	Level, Trend
<b>3. Solvent and Other Product Use</b>		
3. Solvent and Other Product Use	CO <sub>2</sub>	Level, Trend
<b>4. Agriculture</b>		
4.A.1 Cattle	CH <sub>4</sub>	Level, Trend

IPCC Categories	Direct GHG gas	Identification criteria
4.A.3 Sheep	CH <sub>4</sub>	Level, Trend
4.A.4 Goat	CH <sub>4</sub>	Level, Trend
4.A.6 Horses	CH <sub>4</sub>	Level, Trend
4.B.8 Swine	CH <sub>4</sub>	Level
4.B.13 Solid Storage and Dry Lot	N <sub>2</sub> O	Level, Trend
4.B.14 Other AWMS	N <sub>2</sub> O	Level, Trend
4.D.1 Direct Soil Emissions	N <sub>2</sub> O	Level, Trend
4.D.2 Pasture, Range and Paddock Manure	N <sub>2</sub> O	Level, Trend
4.D.3 Indirect Emissions	N <sub>2</sub> O	Level, Trend
<b>6. Waste</b>		
6.A Solid waste disposal on land	CH <sub>4</sub>	Level, Trend
6.B Waste water handling	CH <sub>4</sub>	Level, Trend
6.B Waste water handling	N <sub>2</sub> O	Level, Trend

**Table 3.2.2 Summary of key categories in 2011, by tier 1/ tier 2, level and trend, including LULUCF**

IPCC Categories	Direct GHG gas	Identification criteria
<b>1. Energy</b>		
1.A.1.a Public Electricity and Heat Production- solid fuels	CO <sub>2</sub>	Level, Trend
1.A.1.a Public Electricity and Heat Production- liquid fuels	CO <sub>2</sub>	Level, Trend
1.A.1.a Public Electricity and Heat Production- gaseous fuels	CO <sub>2</sub>	Level, Trend
1.A.1.b Petroleum Refining - gaseous	CO <sub>2</sub>	Level
1.A.1.b Petroleum refining - liquid fuels	CO <sub>2</sub>	Level
1.A.1.c Manufacture of Solid Fuels and Other Energy Industries- liquid fuels	CO <sub>2</sub>	Level, Trend
1.A.1.c Manufacture of Solid Fuels and Other Energy Industries- gaseous fuels	CO <sub>2</sub>	Level
1.A.1.c Manufacture of Solid fuels and Other Energy Industries - solid fuels	CO <sub>2</sub>	Trend
1.A.2.a Iron and Steel - solid fuels	CO <sub>2</sub>	Level, Trend
1.A.2.a Iron and Steel- gaseous fuels	CO <sub>2</sub>	Level, Trend
1.A.2.c Chemicals - gaseous fuels	CO <sub>2</sub>	Level, Trend
1.A.2.c Chemicals - liquid fuels	CO <sub>2</sub>	Level
1.A.2.c Chemicals- solid fuels	CO <sub>2</sub>	Level
1.A.2.e Food Processing, Beverages and Tobacco- gaseous fuels	CO <sub>2</sub>	Level
1.A.2.f Other - gaseous fuels	CO <sub>2</sub>	Level, Trend
1.A.2.f Other - liquid fuels	CO <sub>2</sub>	Level, Trend
1.A.2.f Other - solid fuels	CO <sub>2</sub>	Level, Trend
1.A.3.b Road Transportation - gasoline fuels	CO <sub>2</sub>	Level, Trend
1.A.3.b Road Transportation - diesel oil	CO <sub>2</sub>	Level
1.A.3.c Railways - liquid fuels	CO <sub>2</sub>	Level, Trend
1.A.4.a Commercial/ Institutional- gaseous fuels	CO <sub>2</sub>	Level
1.A.4.b Residential - gaseous fuels	CO <sub>2</sub>	Level, Trend
1.A.4.b Residential- liquid fuels	CO <sub>2</sub>	Level, Trend
1.A.4.b Residential - solid fuels	CO <sub>2</sub>	Trend

IPCC Categories	Direct GHG gas	Identification criteria
1.A.4.b Residential - biomass	CH <sub>4</sub>	Level, Trend
1.A.4.b Residential - biomass	N <sub>2</sub> O	Trend
1.A.4.c Agriculture/Forestry/Fisheries - liquid fuels	CO <sub>2</sub>	Level, Trend
1.A.4.c Agriculture/Forestry/Fisheries - gaseous fuels	CO <sub>2</sub>	Trend
1.A.5.a Stationary - liquid fuels	CO <sub>2</sub>	Level
1.B.1.a Coal Mining	CH <sub>4</sub>	Level, Trend
1.B.2.a Oil	CH <sub>4</sub>	Level, Trend
1.B.2.a Oil	CO <sub>2</sub>	Level
1.B.2.b Natural Gas	CH <sub>4</sub>	Level, Trend
1.B.2.c Venting - venting	CH <sub>4</sub>	Level, Trend
<b>2. Industrial Processes</b>		
2.A.1 Cement Production	CO <sub>2</sub>	Level, Trend
2.A.2 Lime Production	CO <sub>2</sub>	Level, Trend
2.A.3 Limestone and Dolomite Use	CO <sub>2</sub>	Trend
2.B.1 Ammonia Production	CO <sub>2</sub>	Level, Trend
2.B.2 Nitric Acid Production	N <sub>2</sub> O	Level, Trend
2.C.1 Iron and Steel Production	CO <sub>2</sub>	Level, Trend
2.C.3 Aluminium Production	PFC	Trend
2.F.1 Refrigeration and Air Conditioning Equipment	HFC	Level, Trend
2.F.2 Foam Blowing	HFC	Trend
2.F.9 Other	HFC	Level, Trend
<b>3. Solvent and Other Product Use</b>		
3. Solvent and Other Product Use	CO <sub>2</sub>	Level, Trend
<b>4. Agriculture</b>		
4.A.1 Cattle	CH <sub>4</sub>	Level, Trend
4.A.3 Sheep	CH <sub>4</sub>	Level, Trend
4.A.4 Goat	CH <sub>4</sub>	Level, Trend
4.A.6 Horses	CH <sub>4</sub>	Level, Trend
4.B.13 Solid Storage and Dry Lot	N <sub>2</sub> O	Level, Trend
4.B.14 Other AWMS	N <sub>2</sub> O	Level, Trend
4.D.1 Direct Soil Emissions	N <sub>2</sub> O	Level, Trend
4.D.2 Pasture, Range and Paddock Manure	N <sub>2</sub> O	Level, Trend

IPCC Categories	Direct GHG gas	Identification criteria
4.D.3 Indirect Emissions	N <sub>2</sub> O	Level, Trend
<b>5. LULUCF</b>		
5.A.1 Forest Land remaining Forest Land	CO <sub>2</sub>	Level, Trend
5.A.2 Land converted to Forest Land	CO <sub>2</sub>	Level, Trend
5.B.1 Cropland remaining Cropland	CO <sub>2</sub>	Level, Trend
5.C.2 Land Converted to Grassland	CO <sub>2</sub>	Trend
5.E.2 Land converted to Settlements	CO <sub>2</sub>	Trend
5.F.2 Land converted to Other Land	CO <sub>2</sub>	Level, Trend
<b>6. Waste</b>		
6.A Solid waste disposal on land	CH <sub>4</sub>	Level, Trend
6.B Waste water handling	CH <sub>4</sub>	Level, Trend
6.B Waste water handling	N <sub>2</sub> O	Level, Trend