

Thailand's News On The Development of GHG Inventories



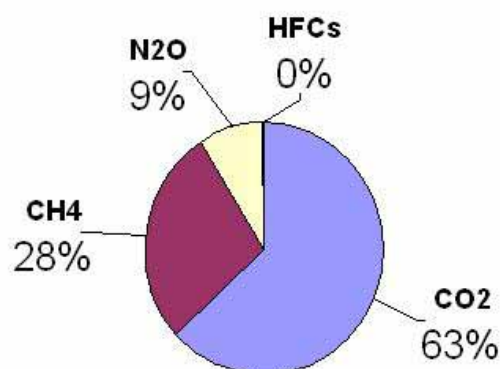
Office of Natural Resources and Environmental Policy and Planning
Ministry of Natural Resources and Environment

The Royal Thai Government

Thailand Total Net National Greenhouse Gas Emission, 2003

| Greenhouse Gas | Emission Mt CO ₂ | %of Total |
|------------------|--------------------------------|--------------|
| CO ₂ | 218.4 | 63.4% |
| CH ₄ | 95.3 | 27.7% |
| N ₂ O | 29.7 | 8.6% |
| HFCs | 0.8 | 0.2% |
| Total | 344.2 | 100% |

Contribution to Total CO₂-equivalent Emissions by Gas, 2003



Source: ERM, 2005

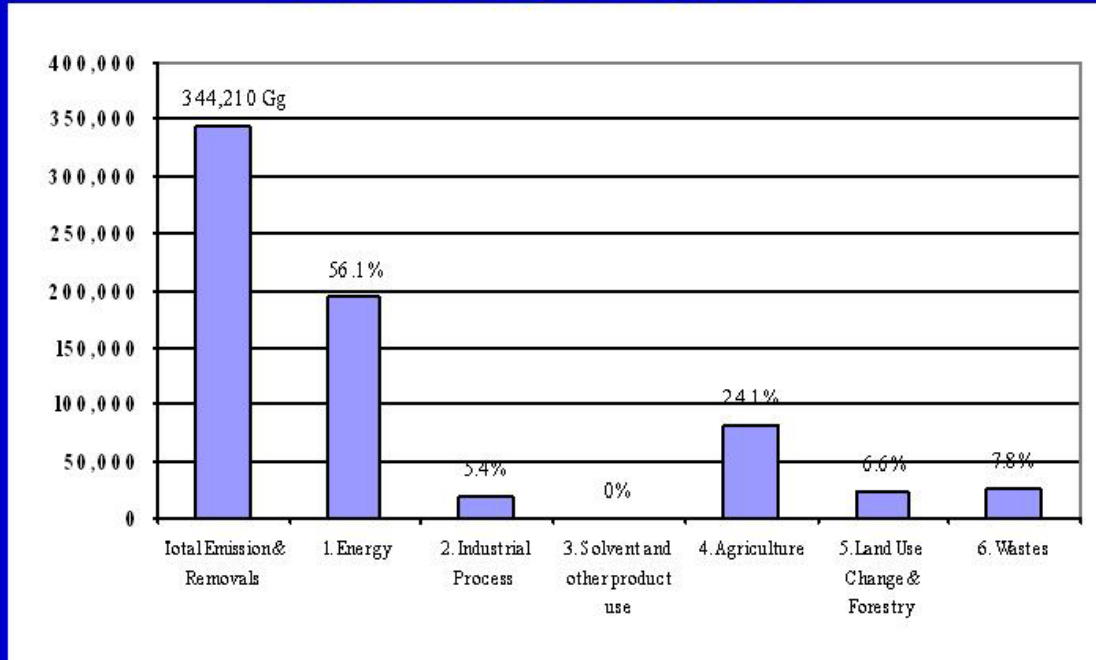
3

Greenhouse Gas Emission by Sector, Thailand, 2003

| Greenhouse Gas Source and Sink Categories | CO ₂ -equivalent Emission (Gg) | | | | | % Total Net Emission |
|---|---|-----------------|------------------|-------|---------|----------------------|
| | CO ₂ | CH ₄ | N ₂ O | HF Cs | Total | |
| Total Emission & Removals | 218,360 | 95,346 | 29,713 | 791 | 344,210 | 100% |
| 1. Energy | 178,945 | 11,522 | 2,737 | – | 193,204 | 56.1% |
| A. Fuel Combustion | 178,945 | 1,837 | 2,737 | – | 183,519 | 53.3% |
| B. Fugitive Emissions | – | 9,685 | – | – | 9,685 | 2.8% |
| 2. Industrial Process | 17,904 | 42 | – | 791 | 18,737 | 5.4% |
| 3. Solvent and other product use | – | – | – | – | – | 0.0% |
| 4. Agriculture | – | 56,811 | 25,977 | – | 82,788 | 24.1% |
| 5. Land Use Change & Forestry | 21,511 | 998 | 101 | – | 22,610 | 6.6% |
| 6. Wastes | – | 25,973 | 897 | – | 26,870 | 7.8% |

Source: ERM, 2005

Contribution to Total CO2-equivalent Emission by Sector, 2003



Source: ERM, 2009

5

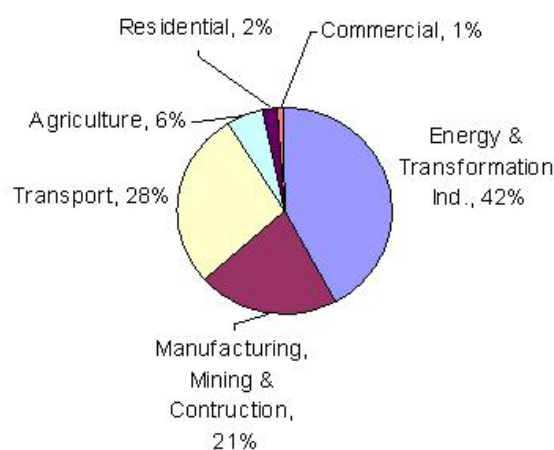
Energy Sector CO2-equivalent Emission, 2003

Source: ERM, 2009

6

| Greenhouse Gas Source and Sink Categories | CO ₂ -equivalent Emission (Gg) | | | | | % Total Net Emission |
|---|---|-----------------|------------------|----------|----------------|----------------------|
| | CO ₂ | CH ₄ | N ₂ O | HF Cs | Total | |
| Total Emission & Removals | 218,360 | 95,346 | 29,713 | 791 | 344,210 | 100 % |
| 1. Energy | 178,945 | 11,522 | 2,737 | 0 | 193,204 | 56.2% |
| A. Fuel Combustion | 178,945 | 1,837 | 2,737 | 0 | 183,519 | 53.4% |
| Energy & Transformation Ind. | 75,497 | 45 | 1,381 | – | 76,924 | 22 % |
| Manufacturing, Mining & Construction | 37,293 | 439 | 154 | – | 37,886 | 11% |
| Transport | 51,272 | 152 | 874 | – | 52,298 | 15% |
| Commercial | 1,892 | 6 | 138 | – | 2,036 | 1% |
| Residential | 2,810 | 1,165 | 6 | – | 3,981 | 1% |
| Agriculture | 10,181 | 29 | 184 | – | 10,394 | 3% |
| B.Fugitive Emissions | – | 9,685 | – | – | 9,685 | 3% |
| Solid Fuels | – | 331 | – | – | 331 | 0% |
| Oil and Natural Gas | – | 9,353 | – | – | 9,353 | 3% |

Share of Activities in the Fuel Combustion, 2003



Source: ERM, 2005

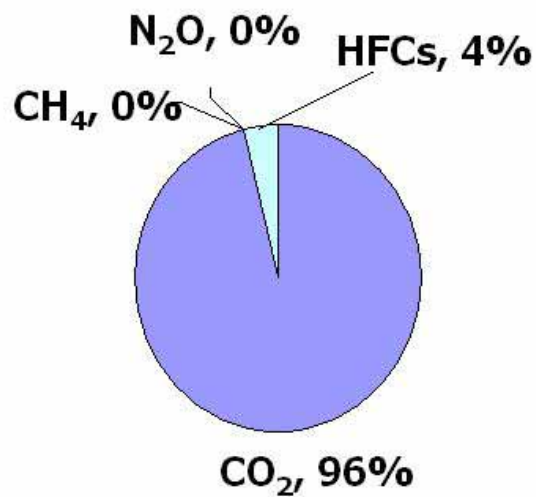
Industrial Processes Sector CO₂-equivalent Emission, 2003

Source: BFM, 2009

9

| Greenhouse Gas Source and Sink Categories | CO ₂ -equivalent Emission (Gg) | | | | | % Total Net Emission |
|--|---|-----------------|------------------|------------|---------------|----------------------|
| | CO ₂ | CH ₄ | N ₂ O | HFCs | Total | |
| Total Emission & Removals | 218,360 | 95,346 | 29,713 | 791 | 344,210 | 100% |
| 2. Industrial Process | 17,904 | 42 | - | 791 | 18,737 | 5.5% |
| A. Mineral Products | 17,904 | - | - | - | 17,904 | 5.2% |
| B. Chemical Industry | - | 42 | - | - | 42 | 0.0% |
| C. Metal Production | - | - | - | - | - | 0.0% |
| D. Other Production | - | - | - | - | - | 0.0% |
| E. Production of halocarbons and sulphur hexafluoride | - | - | - | - | - | 0.0% |
| F. Consumption of halocarbons and sulphur hexafluoride | - | - | - | 791 | 791 | 0.2% |
| G. Others | - | - | - | - | - | 0.0% |

Emission from Industrial Process by Gas, 2003



Source: ERM 2009

11

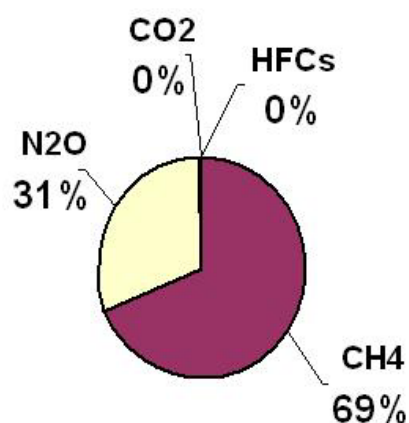
Agriculture Sector CO₂-equivalent Emission, 2003

Source: ERM 2009

12

| Greenhouse Gas Sources and Sink Categories | CO ₂ -equivalent Emissions (Gg) | | | | | % Total Net Emission |
|--|--|-----------------|------------------|------|---------------|----------------------|
| | CO ₂ | CH ₄ | N ₂ O | HFCs | Total | |
| Total Emissions & Removals | 218,360 | 95,346 | 29,713 | 791 | 344,210 | 100% |
| 4.AGRICULTURE | - | 56,811 | 25,977 | - | 82,788 | 24.1% |
| A.Enteric Fermentation | - | 8,163 | - | - | 8,163 | 2.4% |
| B.Manure Management | - | 1,742 | 2,180 | - | 3,922 | 1.1% |
| C.Rice Cultivation | - | 46,467 | - | - | 46,467 | 13.5% |
| D.Agriculture Soil | - | - | 23,674 | - | 23,674 | 6.9% |
| E.Prescribed Burning of Savannas | - | - | - | - | - | 0.0% |
| F.Field Burning of Agriculture Residues | - | 439 | 123 | - | 562 | 0.2% |

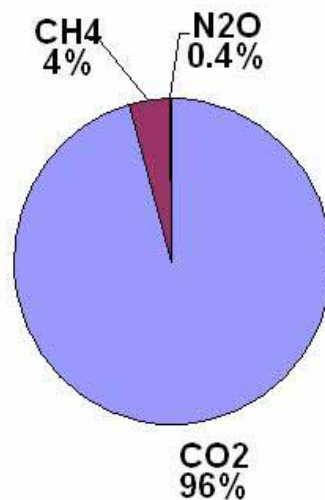
Emission from Agriculture Process by Gas, 2003



Land Use Change and Forestry CO₂-equivalent Emission, 2003

| Greenhouse Gas Sources and Sink Categories | CO ₂ -equivalent Emissions (Gg) | | | | | % Total Net Emission |
|---|--|-----------------|------------------|----------|---------------|----------------------|
| | CO ₂ | CH ₄ | N ₂ O | HFCs | Total | |
| Total Emission & removals | 218,360 | 95,346 | 29,713 | 791 | 344,210 | 100% |
| 5.LAND USE CHANGE & FORESTRY | 21,511 | 998 | 101 | - | 22,610 | 6.6% |
| A.Changes in Forest & Other Woody Biomass Stock | 21,240 | - | - | - | 21,240 | 6.2% |
| B.Forest and Grassland Conversion | 29,826 | 998 | 101 | - | 30,926 | 9.0% |
| C.Abandon of Managed Land | -29,556 | - | - | - | -29,556 | -8.6% |

Emission from Land Use Change and Forestry by Gas, 2003

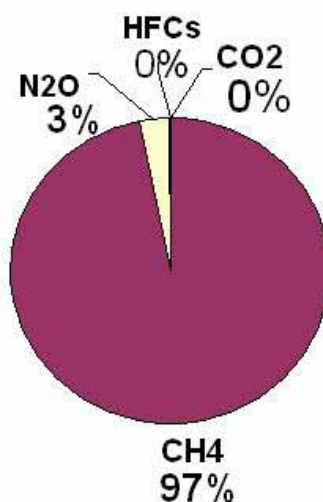


Waste CO₂-equivalent Emission, 2003

| Greenhouse Gas Sources and Sink Categories | CO ₂ -equivalent Emissions (Gg) | | | | | %Total Net Emission |
|--|--|-----------------|------------------|------|----------------|---------------------|
| | CO ₂ | CH ₄ | N ₂ O | HFCs | Total | |
| Total Emission & Removals | 218,360 | 95,346 | 29,713 | 791 | 344,210 | 100% |
| 6.WASTES | - | 25,973 | 897 | - | 26,870 | 7.8% |
| A.Solid Waste Disposal | - | 20,146 | - | - | 20,146 | 5.9% |
| B.Wastewater Treatment | - | 5,827 | - | - | 5,827 | 1.7% |
| C.Human Sewage | - | - | 897 | - | 897 | 0.3% |

Waste CO₂-equivalent Emission, 2003

Waste CO₂- Equivalent Emission,2003



Thank you

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