

**Appendix 4.24.2** Industrial Greenhouse Gas Emission Intensity (GHGIND) in Malaysia - the comparison of data between CAIT and Malaysia Data

**Table A1: Comparison of CAIT and Malaysia Data for Indicator: Greenhouse Gases Emission per Capital (GHGCAP)**

CAIT DATA	MALAYSIA DATA	EPI FINDINGS	MALAYSIA FINDINGS	EPI Target
Electricity and Heat	Energy Industries	14.472072 Mt CO2 eq	8.023912 Mt CO2 eq.	2.5 Mt CO2 eq.
Main Activity Electricity and Heat Production	Public electricity and heat production			
Auto producer	NIL			
Other Energy Industry	Petroleum refining			
	Manufacture of solid fuels and other energy industries			
Manufacturing and Construction	Manufacturing Industries and Construction			
Iron and Steel	Manufacturing (Not specific)			
Chemicals and Petrochemicals				
Non-Ferrous Metals				
Non-Metallic Minerals				
Transport Equipment				
Machinery				
Food and Tobacco				
Paper, Pulp and Printing				
Wood and Wood Products				
Textile and Leather				
Non-specified Industry				
Non- Energy Use Industry				
Construction				
Nil	Mining			

**Table A1: Comparison of CAIT and Malaysia Data for Indicator: Greenhouse Gases Emission per Capital (GHGCAP) - Continue**

CAIT DATA	MALAYSIA DATA	EPI FINDINGS	MALAYSIA FINDINGS	EPI Target
<b>Transportation</b>	<b>Transportation</b>	14.472072 Mt CO2 eq	8.023912 Mt CO2 eq.	2.5 Mt CO2 eq.
Domestic air transport	Aviation			
Road vehicles	Road			
Rail	Rail			
National navigation	Navigation/ Maritime			
Pipeline transport	<i>Nil</i>			
Non-specified transport	<i>Nil</i>			
Non-energy use in transport	<i>Nil</i>			
<i>Nil</i>	Military transport			
<b>Other Fuel Combustion</b>	<b>Not Specific</b>			
CH <sub>4</sub> and N <sub>2</sub> O from biomass combustion	Emission from Biomass fuels			
CH <sub>4</sub> and N <sub>2</sub> O stationary and Mobile combustion	<i>Nil</i>			
CO <sub>2</sub> from other sectors	<i>Nil</i>			
<b>Fugitive Emission</b>	<b>Fugitive Emissions from Fuels</b>			
Gas venting/ Flaring	Venting and Flaring			
Oil and Natural gas systems	Oil and Gas System: Oil, Natural Gas,			
Coal Mining	Coal mining and Handling			

**Table A1: Comparison of CAIT and Malaysia Data for Indicator: Greenhouse Gases Emission per Capital (GHGCAP) - Continue**

CAIT DATA	MALAYSIA DATA	EPI FINDINGS	MALAYSIA FINDINGS	EPI Target
Industrial Process	Industrial Processes	14.472072 Mt CO2 eq	8.023912 Mt CO2 eq.	2.5 Mt CO2 eq.
CO <sub>2</sub> emissions from cement manufacture	Cement Production			
N <sub>2</sub> O emissions from Adipic and Nitric Acid Production	Nitric Acid Production			
Nil	Lime Production			
Nil	Limestone and Dolomite Site			
Nil	Ammonia Production			
Nil	Carbide Production			
Nil	Petrochemicals			
N <sub>2</sub> O and CH <sub>4</sub> emissions from other industrial	Nil			
Nil	Iron and Steel Production			
Agriculture	Agriculture (Not Specific)			
CH <sub>4</sub> from Livestock				
CH <sub>4</sub> and N <sub>2</sub> O from livestock manure management				
CH <sub>4</sub> from rice cultivation				
N <sub>2</sub> O from agriculture soils				
CH <sub>4</sub> and N <sub>2</sub> O from other Agriculture Sources				
Nil	Fishery			
Nil	Forestry			

**Table A1: Comparison of CAIT and Malaysia Data for Indicator: Greenhouse Gases Emission per Capital (GHGCAP) - Continue**

CAIT DATA	MALAYSIA DATA	EPI FINDINGS	MALAYSIA FINDINGS	EPI Target
<b>Land Use Change (Yearly CO2 Emission)</b>	<i>Nil</i>	14.472072 Mt CO2 eq	8.023912 Mt CO2 eq.	2.5 Mt CO2 eq.
Clearing of natural ecosystems for permanent croplands (cultivation)				
Clearing of natural ecosystems for permanent pastures (no cultivation)				
Abandonment of croplands and pastures with subsequent recovery of carbon stocks to those of the original ecosystem				
Shifting cultivation				
Wood harvest				
<b>Waste</b>	<i>Nil</i>			
CH <sub>4</sub> from landfills (solid waste)				
CH <sub>4</sub> from wastewater treatment				
N <sub>2</sub> O from human sewage				
CH <sub>4</sub> and N <sub>2</sub> O from other (waste)				
<b>International Bunker</b>	<b>International Bunkers</b>			
Aviation Bunker				
Marine Bunker				
<i>Nil</i>	<b>Commercial</b>			
<i>Nil</i>	<b>Residential</b>			
<i>Nil</i>	<b>Other Relevant Greenhouse Gases</b>			
	Emission from halocarbon and Sulphur Hexafluoride (Consumption of HFC 134a for Mobile Air Conditioning (MAC) and Consumption of SF6 (Not Specific)			

Noted: Climate Analysis Indicators Tool (CAIT) data is from year 2005; Malaysia data is from year 2004

**Table A2: Comparison of CAIT and Malaysia Data for Indicator: Industrial Greenhouse Gas Emission Intensity (GHGIND)**

CAIT DATA	MALAYSIA DATA	EPI FINDINGS	MALAYSIA FINDINGS	EPI Target
<b>Industrial Process</b>	<b>Industrial Processes</b>	59.416066	117.752454	36.3 tons of
CO <sub>2</sub> emissions from cement manufacture	Cement Production	Metric Tons	Metric Tons	CO <sub>2</sub>
N <sub>2</sub> O emissions from Adipic and Nitric Acid Production	Nitric Acid Production	CO <sub>2</sub> Equivalent	CO <sub>2</sub> Equivalent	Equivalent
<i>Nil</i>	Lime Production	per \$mil, (USD	per \$mil,	per \$mill
<i>Nil</i>	Limestone and Dolomite Site	2005) PPP of	(USD 2005)	(USD,
<i>Nil</i>	Ammonia Production	industrial GDP	PPP of	2005, PPP)
<i>Nil</i>	Carbide Production		industrial	of
<i>Nil</i>	Petrochemicals		GDP	industrial
N <sub>2</sub> O and CH <sub>4</sub> emissions from other industrial	<i>Nil</i>			GDP
<i>Nil</i>	Iron and Steel Production			

Noted: Climate Analysis Indicators Tool (CAIT) data is from year 2005; Malaysia data is from year 2004

**Table A3: Comparison of IEA and Malaysia Data for Indicator: CO2 Emission for Electricity Generation (CO2KWH)**

IEA DATA	MALAYSIA DATA	EPI FINDINGS	MALAYSIA FINDINGS	EPI Target