GHGeniues

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| --- | --- | --- | --- | --- |
| S.NO. | SHEET | CELL NUMBER | INPUTS | VALUE(5.02C) |
|  |  |  |  |  |
| 1 | Power Gen | B21 | Coal | 0.74 |
|  | Power Gen | C21 | Oil | 0.01 |
|  | Power Gen | D21 | Gas Boiler | 0 |
|  | Power Gen | E21 | Gas Turbine | 0.04 |
|  | Power Gen | F21 | Nuclear | 0.02 |
|  | Power Gen | G21 | Wind | 0.09 |
|  | Power Gen | H21 | Solar | 0.03 |
|  | Power Gen | J21 | Biomass | 0 |
|  | Power Gen | K21 | Run of River | 0 |
|  | Power Gen | L21 | Conventional Hydro | 0.08 |
|  |  |  |  |  |
|  | Power Gen | A7 | **Looked up net efficiency** | |
|  | Power Gen | B7 | Coal | 0.3 |
|  | Power Gen | C7 | Oil | 0.35 |
|  | Power Gen | D7 | Gas boiler | 0.38 |
|  | Power Gen | E7 | Gas Turbine | 0.52 |
|  | Power Gen | F7 | Nuclear | 0.35 |
|  | Power Gen | J7 | Biomass | 0.22 |
|  | Output Summary | B83 | Transmission & Distribution Efficiency % |  |
|  | **OTHER EMISSIONS** |  |  |  |
|  | Where are they mention |  | Carbon Oxides |  |
|  |  |  | Sulphur Oxides |  |
|  |  |  | Nitrogen Oxides |  |
|  |  |  | Particulate Matter |  |
|  | | | | |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  | Emission Intensities by fuel-type |  |  |
|  | Power Generation Emissions Intensity |  |  |  |
| Hydro | Elec Emission | B26 | Coal |  |
| Wind | Elec Emission | C26 | Fuel Oil |  |
| Nuclear | Elec Emission | D26 | NG/Boiler |  |
| Biomass | Elec Emission | E26 | NG/Turbine |  |
| Solar thermal | Elec Emission | F26 | Nuclear |  |
| Geothermal | Elec Emission | G26 | Wind |  |
| Solar PV | Elec Emission | H26 | Other Carbon |  |
| Natural gas | Elec Emission | J26 | Biomass |  |
| Coal | Elec Emission |  | Total System |  |
|  |  |  |  |  |
|  | | | | |
|  |  |  |  |  |
|  | C**rude Oil** |  |  |  |
|  | **Domestic Production** |  |  |  |
|  |  |  | Onshore,1000t |  |
|  |  |  | Offshore,1000t |  |
|  |  |  | Total, 1000t |  |
|  | Crude Production | C30 | %Onshore | 0.35 |
|  | | | | |
|  |  |  |  |  |
|  | Energy Required to Produce Crude Oil |  |  |  |
|  |  |  | Unites States(1992) |  |
|  |  |  | India(1994) |  |
|  |  |  | Relative factor for India |  |
|  |  |  | Used in Ghgeniuus |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  | Crude Production | F7 | Crude Oil | 105103 |
|  | Crude Production | F8 | Diesel fuel | 91575 |
|  | Crude Production | F9 | Residual Fuel | 5055 |
|  | Crude Production | F10 | Natural Gas | 1072559 |
|  | Crude Production | F12 | Electricity | 146194 |
|  | Crude Production | F13 | Gasoline | 35768 |
|  |  |  |  |  |
|  | Venting & Flares | B12 | Reported Flaring(lt/tonne) | 20011 |
|  | Venting & Flares | C12 | Annual Improvement Rate | -0.04 |
|  |  |  |  |  |
|  |  | Crude Oil Transportation from Production Fields | | |
|  |  |  | Average Distance(km) |  |
|  | **Transportation of Domestic Petroleum Products** |  |  |  |
|  | | | | |
|  |  |  |  |  |
|  | refinery energy consumption |  |  | 0.059 |
|  | | | | |
|  |  |  |  |  |
|  |  |  |  |  |
|  | Refinery Production |  |  |  |
|  |  |  | Light Product |  |
|  |  |  | LPG |  |
|  |  |  | Mogas |  |
|  |  |  | Naphtha |  |
|  |  |  | Others |  |
|  |  |  | Middle Distillate |  |
|  |  |  | Kerosene |  |
|  |  |  | Jet |  |
|  |  |  | LDO |  |
|  |  |  | HSD |  |
|  |  |  | Others |  |
|  |  |  | Heavy Products |  |
|  |  |  | FO/LSHS |  |
|  |  |  | Lubes/Others |  |
|  |  |  |  |  |
|  | Types of Refiney use |  |  |  |
|  | Refineries | J50 | Diesel Fuel |  |
|  | Refineries | O50 | Still Gas |  |
|  | Refineries | P50 | Petroleum Coke |  |
|  | Refineries | R50 | Electricity/Power |  |
|  | | | | |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  | Refinery Energy Relative Product Allocation |  |  |  |
|  |  |  | Gasoline | 1.84 |
|  |  |  | Diesel | 1 |
|  |  |  | LPG | 1 |
|  |  |  | Residual | 1 |
|  | | | | |
|  |  |  |  |  |
|  |  |  |  |  |
|  | Energy Consumption By Product |  |  |  |
|  | Refineries | B50 | Conventional Gasoline |  |
|  | Refineries | C50 | RFG |  |
|  | Refineries | D50 | Distillate |  |
|  | Refineries | F50 | LSD |  |
|  | Refineries | G50 | Residual |  |
|  | Refineries | H50 | LPG |  |
|  |  |  |  |  |
|  | **Flow of Petroleum Products** |  |  |  |
|  | Crude Oil Imports |  |  |  |
|  |  |  | Domestic Production,1000t |  |
|  |  |  | Imports,1000t |  |
|  |  |  | % Imports |  |
|  |  |  |  |  |
|  | Source of Crude Oil |  |  |  |
|  |  |  | Domestic Production |  |
|  |  |  | North Africa |  |
|  |  |  | Nigeria |  |
|  |  |  | Indonesi |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  | Petroleum Product Imports And Expoerts |  |  |  |
|  | Petroleum Flow | I47 | Light Net Import |  |
|  | PetroleumFlow | I78 | Heavy Product Net Import |  |
|  |  |  |  |  |
|  |  | Petroleum Products Distribution Inputs | | |
|  | Input | B92 | Pipeline Mode Share |  |
|  | Input | B93 | Rail Mode Share |  |
|  | Input | B94 | Road Mode Share |  |
|  |  |  | Marine Mode Share |  |
|  |  |  | Pipeline Network Length |  |
|  |  |  | Pipeline Utilisation Rate |  |
|  |  |  | Average Refine Energy Consumption Rate |  |
|  | **Natural Gas Production** | Transport sheet |  |  |
|  | Domestic Production |  |  |  |
|  |  |  | Offshore |  |
|  |  |  | Onshore |  |
|  |  |  | Total |  |
|  |  |  |  |  |
|  | Energy Required for Natural Gas Production |  |  |  |
|  |  |  | Offshore |  |
|  |  |  | Onshore |  |
|  |  |  | Weight Average |  |
|  |  |  |  |  |
|  | Pipeline Energy Consumption |  |  |  |
|  | Transmission and Storage |  |  |  |
|  | Distribution |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
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|  |  |  |  |  |
|  |  |  |  |  |
|  | **Coal Production** |  |  |  |
|  |  |  | **Domestic Supply** |  |
|  |  |  | Total Transformation |  |
|  |  |  | **Total Final Consumption** |  |
|  |  |  |  |  |
|  | Coal gas venting and flaring |  |  |  |
|  |  |  | **Coal gas vanting** |  |
|  |  |  | **Coal Inputs** |  |
|  |  |  | Coal Energy Energy Intensity(KJ/Tonne) |  |
|  | Coal Mining | S88 | Methane Emissions Underground Mining | 8757 |
|  | Coal Mining | S87 | Methane Emission OpenCast Mining(L/Tonne) | 1231 |
|  |  |  |  |  |
|  |  | Coal Transportation Mode Split | | |
|  |  |  | Rail |  |
|  |  |  | Road |  |
|  |  |  | Belt/Ropeway |  |
|  |  |  | Natural Gas Pipeline Transmission Energy Use |  |
|  |  |  |  |  |