MODULE	ENERGY
SUBMODULE	CO_2 From Fuel Combustion By Source Categories(Tier 1)
WORKSHEET	1-2 Step By Step Calculations
SHEET	1 of 16 ENERGY INDUSTRIES

	STEP 1	STEP 2		STEP 3		
Energy Industries	A Consumption 10^3 [T]	B Conversion Factor (Tj/10^3 T)	C Consumption (Tj)	D Carbon Emission Factor (t C/Tj)	E Carbon Content (t C)	F Carbon Content (Gg C)
			C=(A*B)		E=(C*D)	F=($E*10^{-3}$)
Crude Oil	NO					
Natural Gas Liquids	NO					
Gasoline	NO					
Jet Kerosene	NO					
Other Kerosene	NO					
Gas/Diesel Oil	48.65	43.33	2108.0045	20.2	42581.6909	42.5816909
Residual Fuel Oil	1124.07	40.19	45176.3733	21.1	953221.4766	953.2214766
LPG	NO					
Ethane	NO					
Naphtha	NO					
Lubricants	0.197	40.19	7.91743	20	158.3486	0.1583486
Petroleum Coke	NO					
Refinery Gas	NO					
Anthracite	NO					
Coking Coal	NO					
Other Bituminous Coal	NO					
Lignite	NO					
Peat	NO					
Patent Fuel	NO					
Brown Coal Briquettes	NO					
Coke Oven Coke	NO					
Gas Coke	NO					
Gas Works Gas	NO					
Coke Oven Gas	NO					
Blast Furnace Gas	NO					
Natural Gas	NO					
Municipal Solid Waste	NO					
Industrial Waste	NO					
		Total	47292.29523			
Memo items:						
Wood/Wood Waste	NO					
Charcoal	NO					
Other Solid Biomass	NO					
Liquid Biomass	NO					
Gaseous Biomass	NO					
		Total Biomass				

	STEP 4			STEP 5		STEP 6
	G	H	I	J	K	L

Energy Industries	Fraction of Carbon Stored	Carbon Stored (Gg C)	Net Carbon Emissions (Gg C)	Fraction of Carbon Oxidized	Actual Carbon Emissions (Gg C)	Actual CO_2 Emissions (Gg CO_2)
		H=(F*G)	I=(F-H)		K=(I*J)	L=(K*[44/12])
Crude Oil		0	0		0	0
Natural Gas Liquids		0	0		0	0
Gasoline		0	0		0	0
Jet Kerosene		0	0		0	0
Other Kerosene		0	0		0	0
Gas/Diesel Oil		0	42.5816909	0.99	42.15587399	154.571538
Residual Fuel Oil		0	953.2214766	0.99	943.6892619	3460.19396
LPG		0	0		0	0
Ethane		0	0		0	0
Naphtha		0	0		0	0
Lubricants	0.5	0.0791743	0.0791743	0.99	0.078382557	0.287402709
Petroleum Coke		0	0		0	0
Refinery Gas		0	0		0	0
Anthracite		0	0		0	0
Coking Coal		0	0		0	0
Other Bituminous Coal		0	0		0	0
Lignite		0	0		0	0
Peat		0	0		0	0
Patent Fuel		0	0		0	0
Brown Coal Briquettes		0	0		0	0
Coke Oven Coke		0	0		0	0
Gas Coke		0	0		0	0
Gas Works Gas		0	0		0	0
Coke Oven Gas		0	0		0	0
Blast Furnace Gas		0	0		0	0
Natural Gas		0	0		0	0
Municipal Solid Waste		0	0		0	0
Industrial Waste		0	0		0	0
		0	0		0	0
		0	0		0	0
		0	0		0	0
					Total	3615.052901
Memo items:						
Wood/Wood Waste						
Charcoal						
Other Solid Biomass						
Liquid Biomass						
Gaseous Biomass						
					Total Biomass	