

MODULE		ENERGY						
SUBMODULE		SO ₂ From Fuel Combustion By Source Categories(Tier 1)						
WORKSHEET		1_4						
SHEET		1 of 1 Sector						
Residential		A Fuel Consumption (Tj)	B Sulphur Content Fuel (%)	C Sulphur retention ash (%)	D Abatement Efficiency (%)	E Net Calorific Value (Tj/kt)	F SO ₂ factor (Kg/Tj)	G Emissions (t)
Fuel Type							$F=2*(B/100)^{(1/E)*}$ (10)	$G=(A*F)/1000$
Coal	low							
	medium		1.5	5	1	28	1007.67857	
	high							
Heavy Fuel Oil	low							
	medium		2	1	1	40.19	975.466534	
	high							
Light Fuel	low							
	high	2835.90517	1	1	1	43.33	452.388645	1282.9313
Diesel(road)			0.3	1	1	43.33	135.716594	
Gasoline(road)			0.1	1	1	44.8	43.7544643	
Jet Kerosene			0.05	1	1	44.59	21.9802646	
Oil Shale								
(Other Oil) (kerosene)		4.475	0.05	1	1	44.75	21.901676	0.09801
Natural Gas								
Municipal Waste			0.003	1	1			
Industrial Waste								
Black Liquor								
Fuelwood		4784	0.2	1	1	15	261.36	1250.34624
Other Biomass (chracoal)		46.64	1.5	1	1	30	980.1	45.711864
Total		7671.02017						2579.08741
Memo: Fuels for International Marine Bunkers								
Memo: Fuels for International Aviation Bunkers			0.005	1	1			