Table 2 Detailed source/fuel categories

No	Source category	Fuel/activity	Sector	Quality	CO_2	CO	PM	BC	OC	SO_2	NO_x	NH_3	PAH
1		anthracite	energy production	fuel consumption	✓	✓	✓	✓	✓	✓	✓	✓	✓
2		coking coal	energy production	fuel consumption	✓	✓	✓	✓	✓	✓	✓	✓	✓
3		bituminous coal	energy production	fuel consumption	✓	✓	✓	✓	✓	✓	✓	✓	✓
4		lignite	energy production	fuel consumption	✓	✓	✓	✓	✓	✓	✓	✓	✓
5		peat	energy production	fuel consumption	✓	✓	✓	✓	✓	✓	✓	✓	✓
21		anthracite	industry	fuel consumption	✓	✓	✓	✓	✓	✓	✓	✓	✓
22		coking coal	industry	fuel consumption	✓	✓	✓	✓	✓	✓	✓	✓	✓
23		bituminous coal	industry	fuel consumption	✓	✓	✓	✓	✓	✓	✓	✓	✓
24	Coal	lignite	industry	fuel consumption	✓	✓	✓	✓	✓	✓	✓	✓	✓
25		peat	industry	fuel consumption	✓	✓	✓	✓	✓	✓	✓	✓	✓
35		anthracite	residential/commercial	fuel consumption	✓	✓	✓	✓	✓	✓	✓	✓	✓
36		coking coal	residential/commercial	fuel consumption	✓	✓	✓	✓	✓	✓	✓	✓	✓
37		bituminous coal	residential/commercial	fuel consumption	✓	✓	✓	✓	✓	✓	✓	✓	✓
38		lignite	residential/commercial	fuel consumption	✓	✓	✓	✓	✓	✓	✓	✓	✓
39		peat	residential/commercial	fuel consumption	✓	✓	✓	✓	✓	✓	✓	✓	✓
81		patent fuel	residential/commercial	fuel consumption	✓	✓	✓	✓	✓	✓	✓	✓	✓
80		honeycomb/coal briquettes	residential/commercial	fuel consumption	✓	✓	✓	✓	✓	✓	✓	✓	✓
6		gas/diesel	energy production	fuel consumption	✓	✓	✓	✓	✓	✓	✓	✓	✓
7		residue fuel oil	energy production	fuel consumption	✓	✓	✓	✓	✓	✓	✓	✓	✓
13		natural gas liquid	energy production	fuel consumption	✓	✓	✓	✓	✓	✓	✓	✓	✓
19		gas/diesel	agriculture	fuel consumption	✓	✓	✓	✓	✓	✓	✓	✓	✓
20		gas/diesel	industry	fuel consumption	✓	✓	✓	✓	✓	✓	✓	✓	✓
26		residue fuel oil	industry	fuel consumption	✓	✓	✓	✓	✓	✓	✓	✓	✓
31		crude oil	industry	fuel consumption	✓			✓		✓			
33		natural gas liquid	industry	fuel consumption	✓	✓	✓	✓	✓	✓	✓	✓	✓
42		natural gas liquid	residential/commercial	fuel consumption	✓	✓	✓	✓	✓	✓	✓	✓	
43		kerosene	residential/commercial	fuel consumption	✓	✓	✓	✓	✓	✓	✓	✓	✓
82		gas/diesel	residential/commercial	fuel consumption	✓	✓	✓	✓	✓	✓	✓	✓	✓
83	Oil	fuel oil	residential/commercial	fuel consumption	✓	✓	✓	✓	✓	✓	✓	✓	✓
48		vehicle gasoline	transportation	fuel consumption	✓	✓	✓	✓	✓	✓	✓	✓	✓
52		vehicle diesel	transportation	fuel consumption	✓	✓	✓	✓	✓	✓	✓	✓	✓
49		aviation gasoline	transportation	fuel consumption	✓	✓	✓	✓	✓	✓	✓	✓	✓
51		jet kerosene	transportation	fuel consumption	✓	✓	✓	✓	✓	✓	✓	✓	✓
59		ocean tanker	transportation	fuel consumption	✓	✓	✓	✓	✓	✓	✓	✓	✓
60		ocean container	transportation	fuel consumption	✓	✓	✓	✓	✓	✓	✓	✓	✓
61		ocean bulk/combined carries	transportation	fuel consumption	✓	✓	✓	✓	✓	✓	✓	✓	✓
62		general-cargo vessels	transportation	fuel consumption	✓	✓	✓	✓	✓	✓	✓	✓	✓
63		non-cargo vessels	transportation	fuel consumption	✓	✓	✓	✓	✓	✓	✓	✓	✓
64		auxiliary engines	transportation	fuel consumption	✓	✓	✓	✓	✓	✓	✓	✓	✓
65		military vessels	transportation	fuel consumption	✓	✓	✓	✓	✓	✓	✓	✓	✓
12		dry natural gas	energy production	fuel consumption	✓	✓	✓	✓	✓	✓	✓	✓	✓
18		gas flaring	industry	gas flaring mass	✓	✓	✓	✓	✓	✓	✓	✓	✓
32		dry natural gas	industry	fuel consumption	✓	✓	✓	✓	✓	✓	✓	✓	✓
40	Gas	liquid petroleum gas	residential/commercial	fuel consumption	✓	✓	✓	✓	✓	✓	✓	✓	✓
41		dry natural gas	residential/commercial	fuel consumption	✓	✓	✓	✓	✓	✓	✓	✓	✓
84		gas works gas	residential/commercial	fuel consumption	✓	✓	✓	✓	✓	✓	✓	✓	✓
85		coke oven gas	residential/commercial	fuel consumption	✓	✓	✓	✓	✓	✓	✓	✓	✓
10		municipal waste	energy production	fuel consumption	✓	✓	✓	✓	✓	✓	✓	✓	✓
11		industrial waste	energy production	fuel consumption	✓	✓	✓	✓	✓	✓	✓	✓	✓
29	Waste	municipal waste	industry	fuel consumption	✓	✓	✓	✓	✓	✓	✓	✓	✓
30		industrial waste	industry	fuel consumption	✓	✓	✓	✓	✓	✓	✓	✓	✓
34		non-organized waste burning	residential/commercial	waste burned	✓	✓	✓	✓	✓	✓	✓	✓	✓
53		agriculture waste burning	agriculture	crop residue burned		✓	✓	✓	✓	✓	✓	✓	✓
8		solid biomass	energy production	fuel consumption	✓	✓	✓	✓	✓	✓	✓	✓	✓
9		biogas	energy production	fuel consumption	✓	✓	✓	✓	✓	✓	✓	✓	✓
27		solid biomass	industry	fuel consumption	✓	✓	✓	✓	✓	✓	✓	✓	✓
28		biogas	industry	fuel consumption	✓	✓	✓	✓	✓	✓	✓	✓	✓
44		biogas	residential/commercial	fuel consumption	✓	✓	✓	✓	✓	✓	✓	✓	✓
45	Biomass	indoor firewood burning	residential/commercial	fuel consumption	✓	✓	✓	✓	✓	✓	✓	✓	✓
88		indoor brush wood burning	residential/commercial	fuel consumption		✓	✓	✓	✓	✓	✓	✓	✓
86		charcoal	residential/commercial	fuel consumption		✓	✓	✓	✓	✓	✓	✓	✓
46		indoor crop residue burning	residential/commercial	fuel consumption		✓	✓	✓	✓	✓	✓	✓	✓
87		indoor corncob burning	residential/commercial	fuel consumption		✓	✓	✓	✓	✓	✓	✓	✓
47		indoor dung cake burning	residential/commercial	fuel consumption	✓	✓	✓	✓	✓	✓	✓	✓	✓
50		vehicle liquid biofuels	transportation	fuel consumption	✓	✓	✓	✓	✓	✓	✓	✓	✓
14	Non-combustion	coke production	industry	coke production	✓	✓	✓	✓	✓	✓	✓	✓	✓

15	processes	brick production	industry	brick production	✓	✓	✓	✓	✓	✓	✓		✓
16		primary Al production	industry	aluminum production	✓	✓	✓	✓		✓	✓		✓
17		hydraulic cement production	industry	cement production	✓	✓	✓		✓	✓	✓	✓	
66		iron sintering	industry	pig iron production		✓	✓		✓		✓		✓
67		electric arc furnace	industry	crude steel production		✓	✓		✓		✓		✓
68		open hearth furnace	industry	crude steel production		✓	✓		✓		✓	✓	✓
69		oxygen blown converter	industry	crude steel production		✓	✓				✓		✓
70		hot rolling	industry	hot rolled steel production		✓	✓		✓		✓		✓
71		petroleum catalytic cracking	industry	catalytic cracking capacity		✓	✓				✓	✓	✓
72		lime production	industry	lime production		✓	✓				✓	✓	
73		glass production	industry	glass production			✓				✓		
74		fertilizer production	industry	fertilizer production			✓						
75		ferroalloy production	industry	ferroalloy production			✓				✓		
76		lead production	industry	lead production			✓				✓		
77		magnesium production	industry	magnesium production			✓				✓		
78		zinc production	industry	zinc production			✓				✓		
79		ammonia production	industry	synthetic ammonia production		✓					✓	✓	
89		nickel and copper production	industry	nickel and copper production						✓			
90		natural gas production	industry	natural gas production						✓			
54		forest fire	deforestation/wildfire	dry matter burned		✓	✓	✓	✓	✓	✓	✓	✓
55		deforestation fire	deforestation/wildfire	dry matter burned		✓	✓	✓	✓	✓	✓	✓	✓
56	Open fires	peat fire	deforestation/wildfire	dry matter burned		✓	✓	✓	✓	✓	✓	✓	✓
57		woodland fire	deforestation/wildfire	dry matter burned		✓	✓	✓	✓	✓	✓	✓	✓
58		savanna fire	deforestation/wildfire	dry matter burned		✓	✓	✓	✓	✓	✓	✓	✓