

Table S2. Database of sub-national fuel data for the 45 countries (EUCS36, U.S.A., China, Mexico, and C-6). The fuel subtypes in Group 8 (other) with detailed fuel consumption data in the local database are marked with a “#” superscript.

Country	Fuel sub-types with detailed sub-national data available
EUCS36	power coal, power oil, industry coal, industry oil, coke production <sup>#</sup> , aluminum production <sup>#</sup> , brick production <sup>#</sup> , petroleum refinery <sup>#</sup> , residential coal, residential biofuel, waste incineration <sup>#</sup> , vehicle diesel <sup>#</sup> , vehicle gasoline <sup>#</sup> .
China	power coal, industry coal, aluminum production <sup>#</sup> , brick production <sup>#</sup> , petroleum refinery <sup>#</sup> , residential coal, residential straw <sup>#</sup> , residential firewood <sup>#</sup> , vehicle diesel <sup>#</sup> , vehicle gasoline <sup>#</sup> .
U.S.	power coal, power gas, industry coal, industry oil, industry gas, coke production <sup>#</sup> , aluminum production <sup>#</sup> , brick production <sup>#</sup> , petroleum refinery <sup>#</sup> , residential coal, residential LPG <sup>#</sup> , residential gas <sup>#</sup> , residential biofuel, vehicle diesel <sup>#</sup> , vehicle gasoline <sup>#</sup> .
Mexico	power coal, industry coal, residential oil, residential LPG <sup>#</sup> , residential gas, residential biomass, open solid waste incineration <sup>#</sup> , vehicle diesel <sup>#</sup> , vehicle gasoline <sup>#</sup> .
India	power coal, industry coal, coke production <sup>#</sup> , residential coal, residential biofuel, residential dung cake <sup>#</sup> , vehicle diesel <sup>#</sup> , vehicle gasoline <sup>#</sup> .
South Africa	power coal, industry coal, coke production <sup>#</sup> , residential coal, residential biofuel, vehicle diesel <sup>#</sup> , vehicle gasoline <sup>#</sup> .
Brazil	power coal, industry coal, coke production <sup>#</sup> , residential coal, residential biofuel, vehicle diesel <sup>#</sup> , vehicle gasoline <sup>#</sup> .
Turkey	power coal, industry coal, coke production <sup>#</sup> , residential coal, residential biofuel, vehicle diesel <sup>#</sup> , vehicle gasoline <sup>#</sup> .
Canada	power coal, industry coal, coke production <sup>#</sup> , petroleum refinery <sup>#</sup> , residential coal, residential LPG <sup>#</sup> , residential gas, vehicle diesel <sup>#</sup> , vehicle gasoline <sup>#</sup> , residential biofuel.
Australia	power coal, power oil, power biofuel, industry coal, industry oil, industry gas, industry biofuel, coke production <sup>#</sup> , residential coal, residential LPG <sup>#</sup> , residential gas, residential biofuel, vehicle diesel <sup>#</sup> , vehicle gasoline <sup>#</sup> .