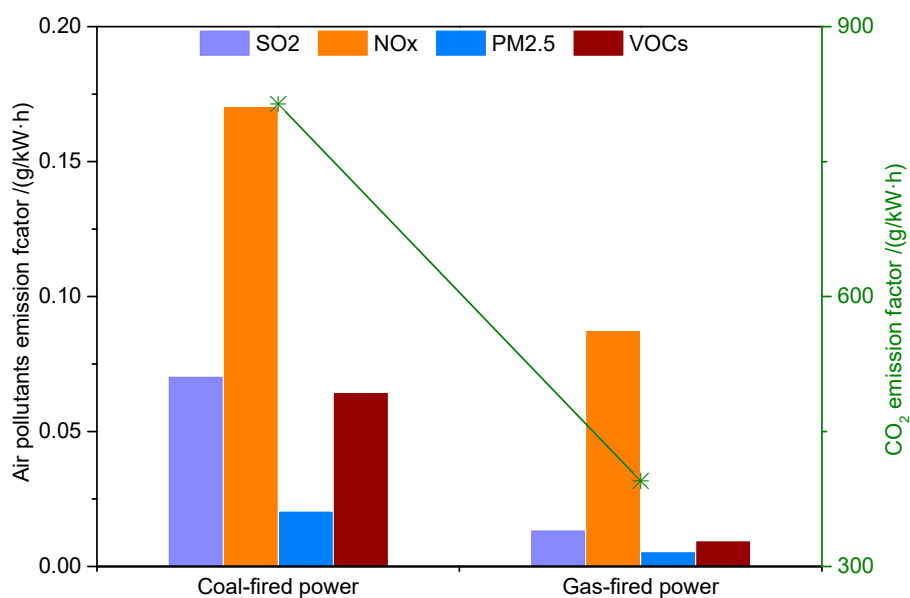
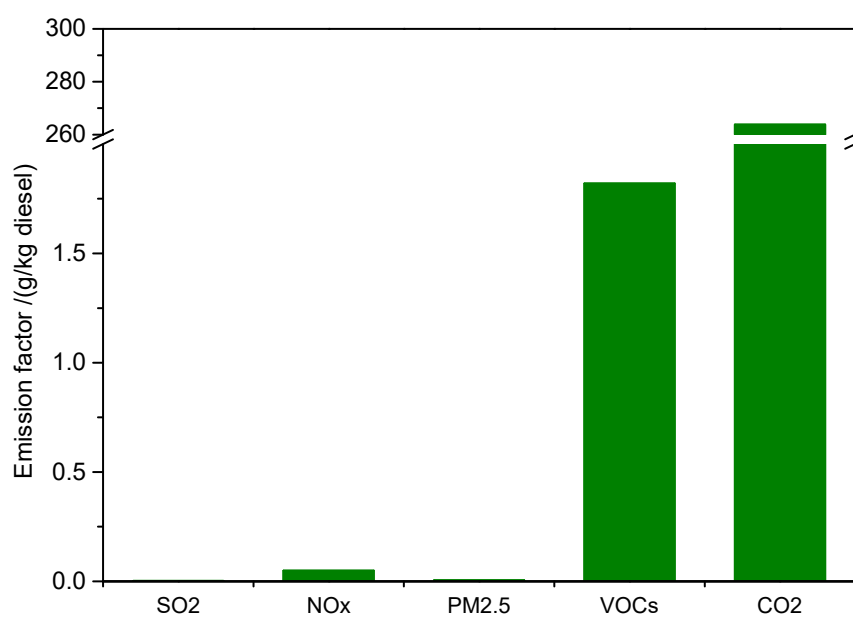


## Supplementary



**Figure S1.** Air pollutants and CO<sub>2</sub> emission factor of power production.



**Figure S2** Air pollutants and CO<sub>2</sub> emission factors of diesel in production, storage, transportation and marketing.

**Table S1** Average energy consumption of commercial vehicles

Vehicles	Bus	Coach	Light-duty truck	Dump Truck	Waste Hauler
Ave. diesel consumption (L/100km)	23.84	22.47	13.08	34.8	34.43
Ave. electricity consumption (kW-h/100km)	70.18	70.05	34.3	164.87	105.6

**Table S2** Air pollutants emission factors of China VI commercial vehicles

<b>Commercial vehicles</b>	<b>VOCs</b>	<b>NOx</b>	<b>PM2.5</b>
Buses	0.025	1.728	0.063
Coaches	0.025	1.728	0.063
Light trucks	0.210	0.436	0.008
Dump trucks	0.056	0.944	0.014
Waste haulers	0.056	0.944	0.014