Supplementary Materials

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Table S1. Vehicle categories in this study corresponding with those in COPERT.

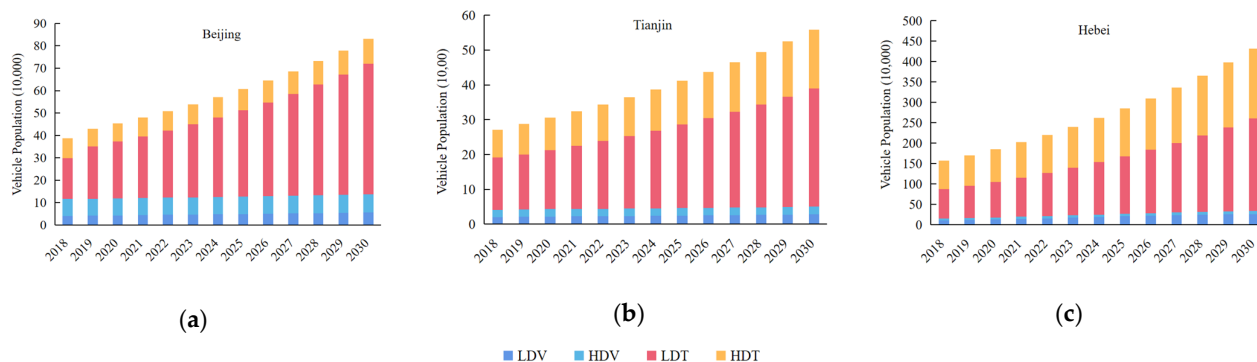| Categories of Chinese vehicles		Vehicle categories by COPERT	
The Statistical Yearbook	**This Study**	Category	Segment
Mini-size passenger cars Small-size passenger cars	Light-duty vehicles	Passenger cars	Small
Medium Buses Large Buses	Heavy-duty vehicles	Buses	Urban Buses Midi ≤ 15 t Coaches Standard ≤ 18 t
Mini-size trucks Small-size trucks	Light-duty trucks	Light Commercial Vehicles	N1-II
Medium trucks Large trucks	Heavy-duty trucks	Heavy Duty Trucks	Rigid 7.5-12t Rigid 14-32t

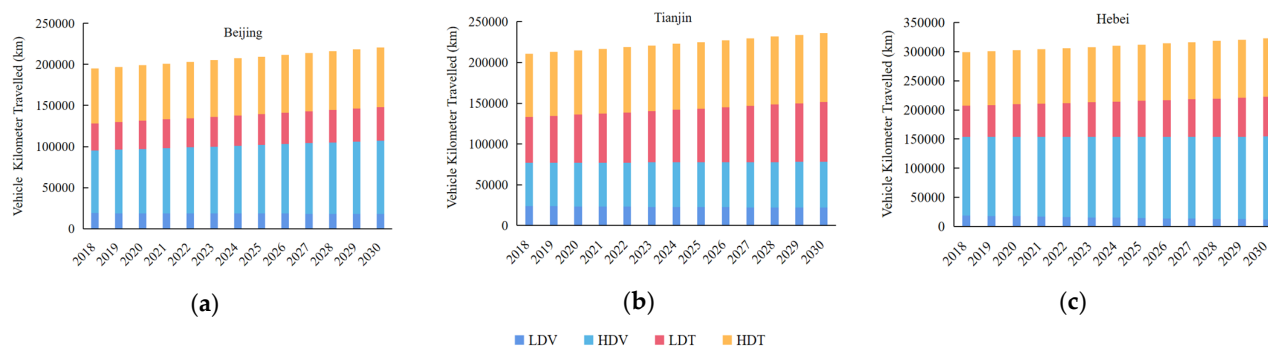**Figure S1.** The projected population of different types of diesel vehicles in the BTH region.

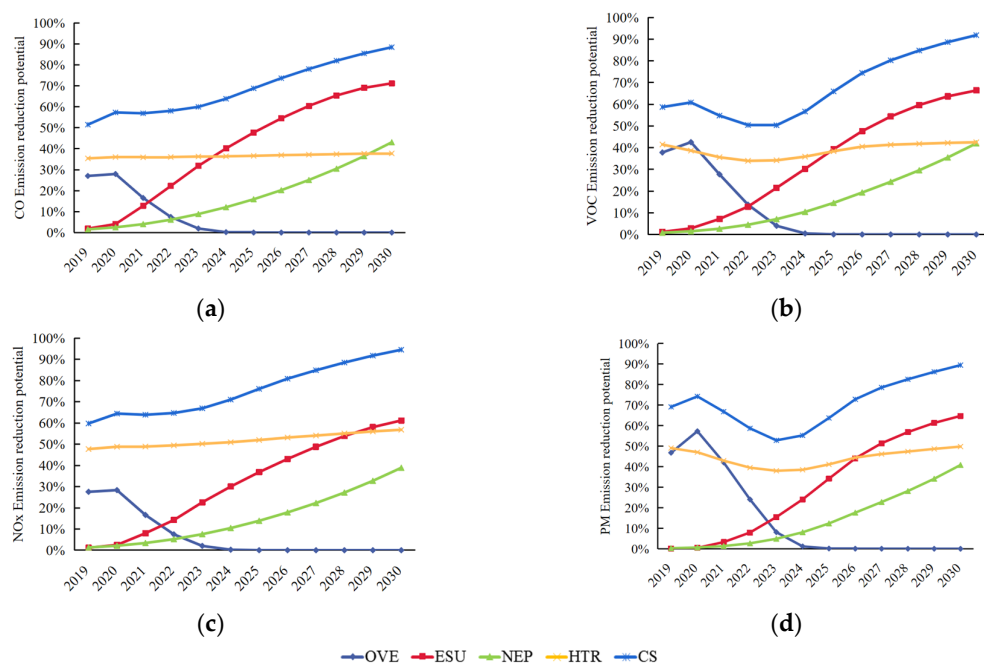**Figure S2.** The projected VKT of different types of diesel vehicles in the BTH region.

Figure S3. Prediction of pollutant emission-reduction potential from diesel vehicles under different policy scenarios in Tianjin.
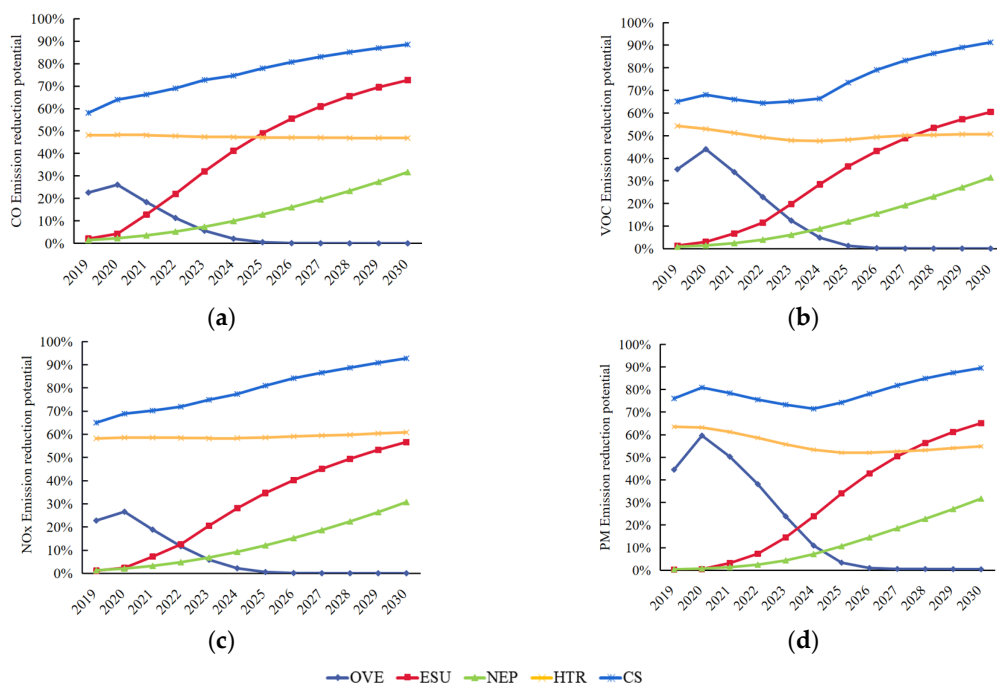

Figure S4. Prediction of pollutant emission-reduction potential from diesel vehicles under different policy scenarios in Hebei.
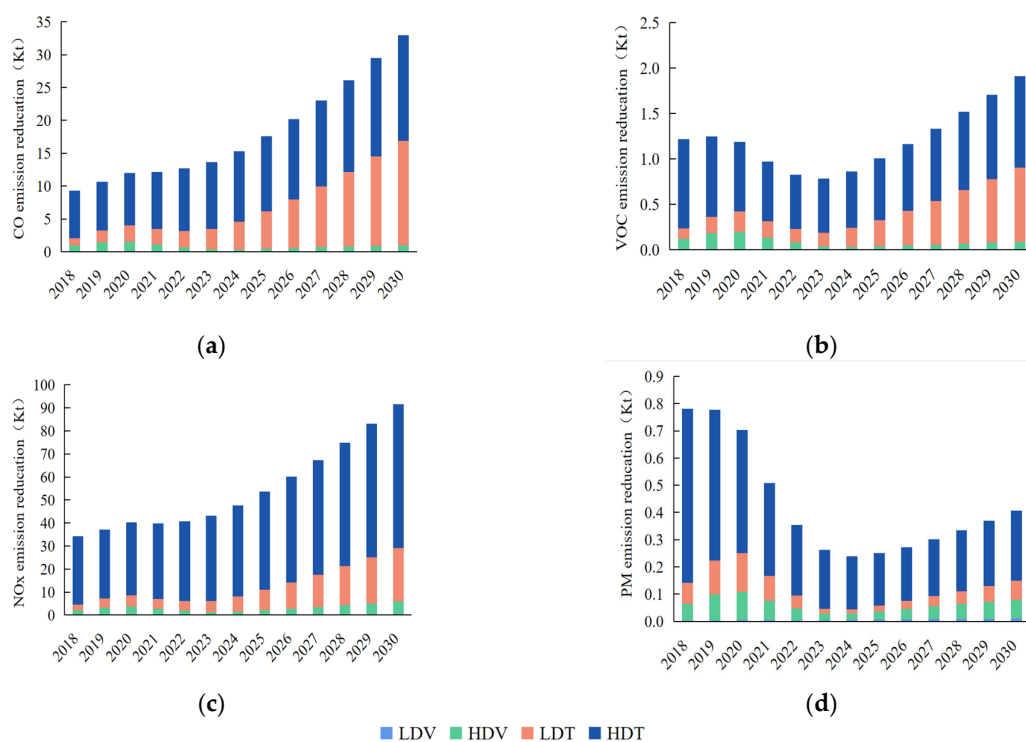
Figure S5. Pollutant emission reduction of diesel vehicles under the CS scenario in Tianjin.
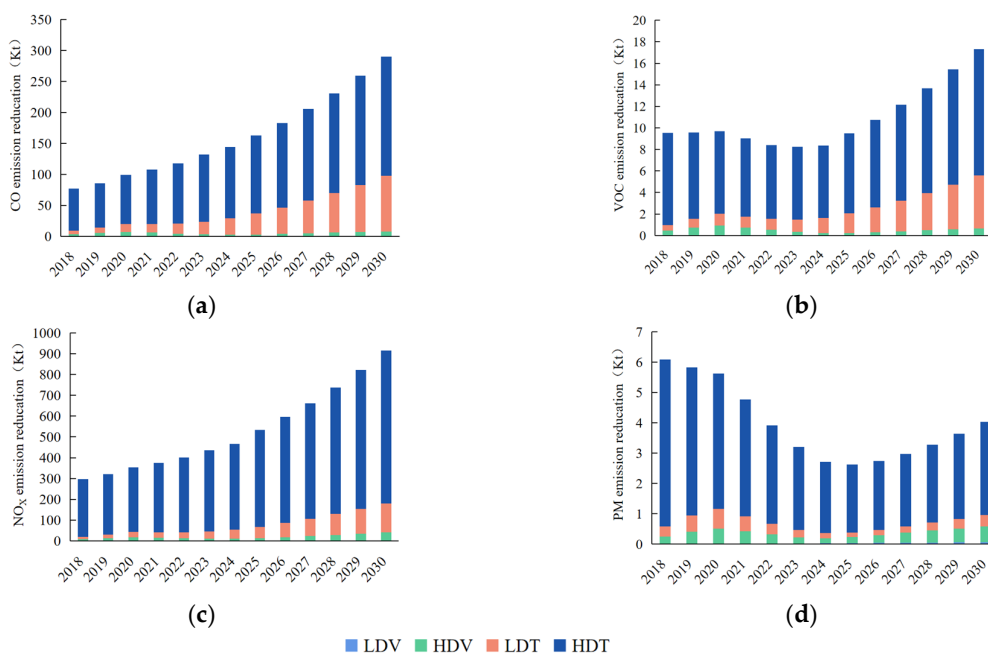

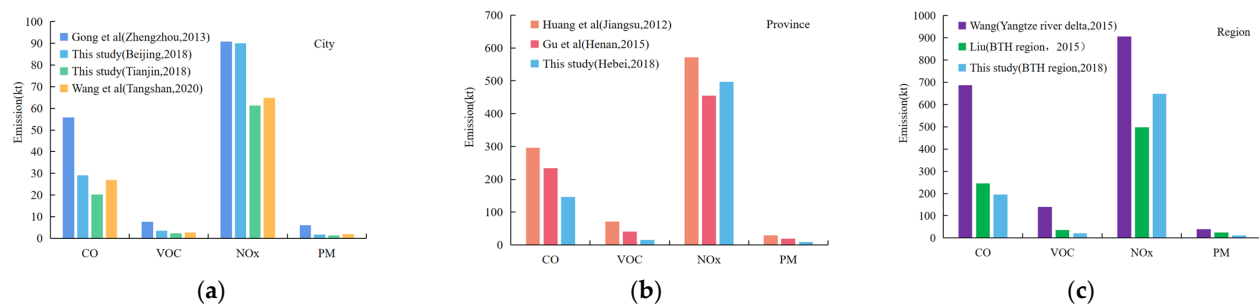**Figure S6.** Pollutant emission reduction of diesel vehicles under the CS scenario in Hebei.
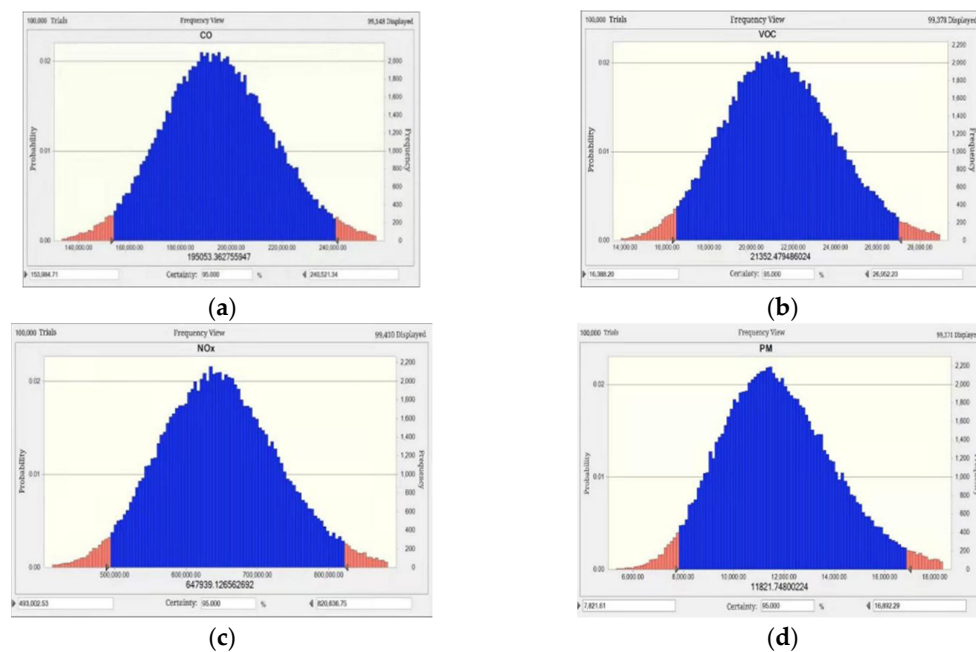
Figure S7. Comparison with other studies.

Figure S8. The distribution map of uncertainty analysis.