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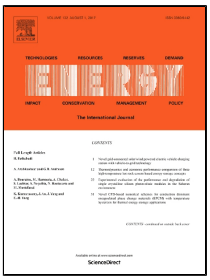

Energy consumption and greenhouse gas emissions of diesel/LNG heavy-duty vehicle fleets in China based on a bottom-up model analysis

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Research highlights

- A bottom-up model for HDVs fleet is set up to measure energy use and GHG emissions
- Both direct and life-cycle energy and GHG emissions of HDVs fleet are analyzed
- About 8% reduction rate of LC GHG emissions occurred from diesel to LNG
- The diesel saved by LNG trucks was about 16 million tons from 2006 to 2015 in China
- GHG reduction can be about 8 million tons of CO2 eq. by 2020 for China's HDV fleet