Electric fleets: a win for climate, communities, and businesses

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Hitachi ABB Power Grids

Why is the electrification of fleet vehicles important?

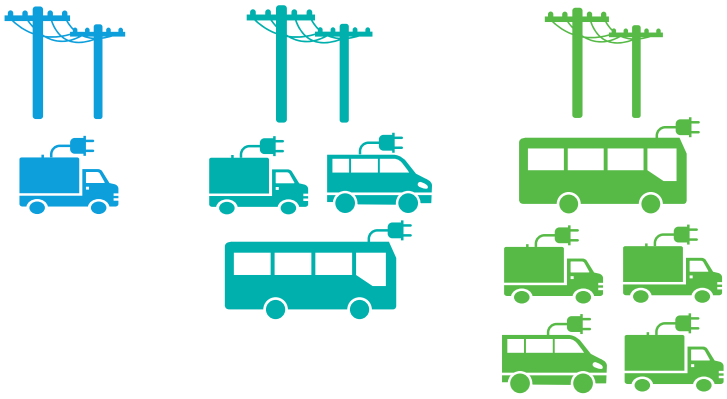
Electrifying trucks, vans, and buses will help decarbonize transportation and reduce pollution in affected communities

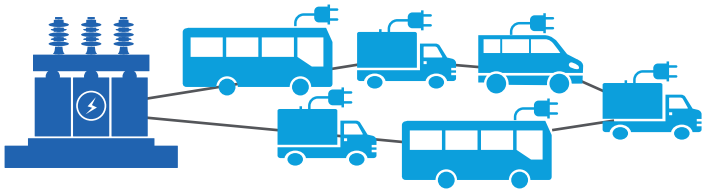
Over **25%** of on-road emissions come from medium- and heavy-duty vehicles (MHDV)

A fleet vehicle emits up to **150X** as much PM2.5 pollution as a passenger car

How might fully electric fleets impact the electric grid?

Fleets often "cluster" in certain geographic areas. Impacts will vary, but some distribution feeders may eventually need to support the charging needs of hundreds of fully electric fleet vehicles.





On areas of the grid where fleets are "clustered," long-term impacts could be substantial — in some areas, peak load could increase by **60%**



How can we prepare the grid for electric fleets?

Start planning now for long-term impacts of electric fleets
Addressing fleet needs will require proactive, collaborative planning

Evaluate multiple solutions
Including transmission and distribution investments that meet the needs of multiple fleets

Work together to accelerate the electric fleet transition
We're here to help — email us at EVGridStudy@nationalgrid.com

Want to learn more?
Read the full National Grid / Hitachi ABB Power Grids study at ngrid.com/fleet-electrification-study

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