



2024 NASEO ANNUAL MEETING | Heavy-Duty Freight Electrification and Electric Utility Collaboration

# Rising to the New Challenge: Medium- and Heavy-Duty Vehicles



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# Outline and Takeaways



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## From Light- to Medium- and Heavy-Duty Vehicle Electrification

- MD and HD have specific challenges, very different from LD
- Industry structure, refueling needs, site types differ
- Not possible to hope for the best: we can't "capture" trucks in an unplanned network

## Adjusting Our Backwards Approach to Truck Electrification

- "Public" charging ideas are backwards
- Shared charging and other creative refueling arrangements solutions need unreserved public support
- New performance criteria are needed for truck sites: high asset utilization
- New frameworks necessary for discharging public obligations and enhancing public sector investment: grid-edge development

## Coordinating Innovation Ecosystems: Lessons from Planning I-95

- Officials need to refuse the "technologist" approach from LD planning
- Trucks require "innovation ecologists" coordinating supply chain flows and our industrial base
- Capacity growth on unchanged system will not magically solve challenges
- Without planning for trucks, we risk implementing overshoot



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