SAFE-EC
Advancing V2G Technology Adoption: Policy Recommendations for Improved Energy Security and Resilience

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A GLOBAL FOOTPRINT

- Headquartered in San Diego, CA
- Offices in Newark (Delaware), London, UK, and Copenhagen, Denmark
- 60+ employees and growing
- 25+ years of V2G R&D
- 16+ MW across five continents
- 5+ years of continuous V2G commercial operations in Denmark
NUVVE SITS AT THE INTERSECTION OF TRANSPORTATION & THE GRID
THE IMPORTANCE OF BIDIRECTIONAL CHARGING

✓ Reduce the overall cost of ownership by unlocking the value that EVs provide as grid resources.
✓ Supporting the integration of wind and solar.
✓ Compliment stationary storage resources and promote resource efficiency.
✓ Enhance grid reliability through V2G dispatch during periods of extreme grid strain avoiding regional power outages.
✓ Providing resilience using EV with V2G during grid outages meeting essential loads at critical facilities.
NORTH AMERICA CHARGING OPTIONS

AC Charging: Nuvve PowerPort

- Level 2 EVSE
- 80amps for 19.2kW max power
- UL Certified
- Energy Star certified
- Dual-mount pedestal available
- AC-V2G capability with specially configured vehicles*
- Input voltage: 240V / 1Ø

V2G capable with specific EV models
- CCS1 connector
- 60kW or 125kW charge and discharge power levels
- UL1741-SA certified for California (Rule 21) interconnection
- Input voltage: 480V / 3Ø

*Vehicle must have bidirectional onboard charger for V2G operations
NUVVE’S COMMERCIAL V2G WITH SCHOOL BUSES

• Standard V2G School Buses are available with CCS plugs

• Certified UL1741-SA V2G chargers are available

• Nuvve through our JV, Levo Mobility, offers a complete V2G fleet solution:
  • Buses
  • Chargers
  • Installation
  • Financing
POLICY PRIORITIES

✓ Create incentives for V2G deployments and compensation mechanisms that represent the full stack of value that TE and V2G offers.

✓ Streamline interconnection standards and processes for V2G.

✓ Include V2G in grid impact studies and resource planning activities.

✓ Help “future proof” policies to incorporate bidirectional capabilities into infrastructure planning processes and funding.

✓ Expedite the development and implementation of V2G-related specifications and technical standards.
THANK YOU

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V2G charging solutions: https://nuvve.com/contact/