



INTERCONNECTION, STANDARDS AND PERMITTING

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Initial Challenge and Recommendations

Initial assignment: None (Aside from a passing reference in Challenge #6, the initial challenges were quiet on interconnection)

First round of recommendations:

1. **Interconnection Primer:** A research entity should develop an interconnection primer for LDES technology providers
2. **Gap Analysis:** A research entity should conduct an interconnection standards gap analysis for LDES technologies
3. **Queue Reform:** A research entity should produce a quantitative interconnection queue reform analysis to identify the impact of different reforms
4. **Cost Sharing:** FERC should initiate a docket to investigate proactive interconnection planning processes and increased sharing of upgrade costs across multiple developers
5. **Scheduled Interconnection:** FERC should authorize scheduled interconnection agreements



Additional Recommendations Under Development

In the follow-up recommendations, we're focusing more on Standards and Permitting:

- 1. Community Education:** Local jurisdictions are considering/passing bans on storage, primarily motivated by concern over lithium-ion. We need better education and outreach resources and programs for local jurisdictions and communities.
- 2. Communication Standards:** Contradicting standards have resulted in many inverter manufacturing not including a physical port, which turns them into bricks if the inverter manufacturer fails. Need to clarify a requirement for physical ports.
- 3. Distributed LDES Impacts:** What is the potential for distributed LDES? What are the implications for standards/permitting/siting/safety if we have distributed LDES? Who will own these systems, and will they have ability/willingness to assume responsibility for ownership if something goes wrong?

