



Building Community Support for Energy Storage

Risk Factors, Tangible Benefits, and Community
Perception of Energy Storage



June 24, 2026

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EPRI *Born in a Blackout*

**Independent, non-profit, public
benefit applied research**



***New York City:
The Great Northeast Blackout, 1965***

» **Mission**

Advancing safe, reliable, affordable, and clean energy for society through global collaboration, science and technology innovation, and applied research.

» **Vision**

**Together...Shaping the Future of
Clean Energy**

» **Power of Collaboration**

Leveraging Research Funds, industry expertise, Academia and National Labs, DOE/CEC/NYSERDA/EU Horizon 2020

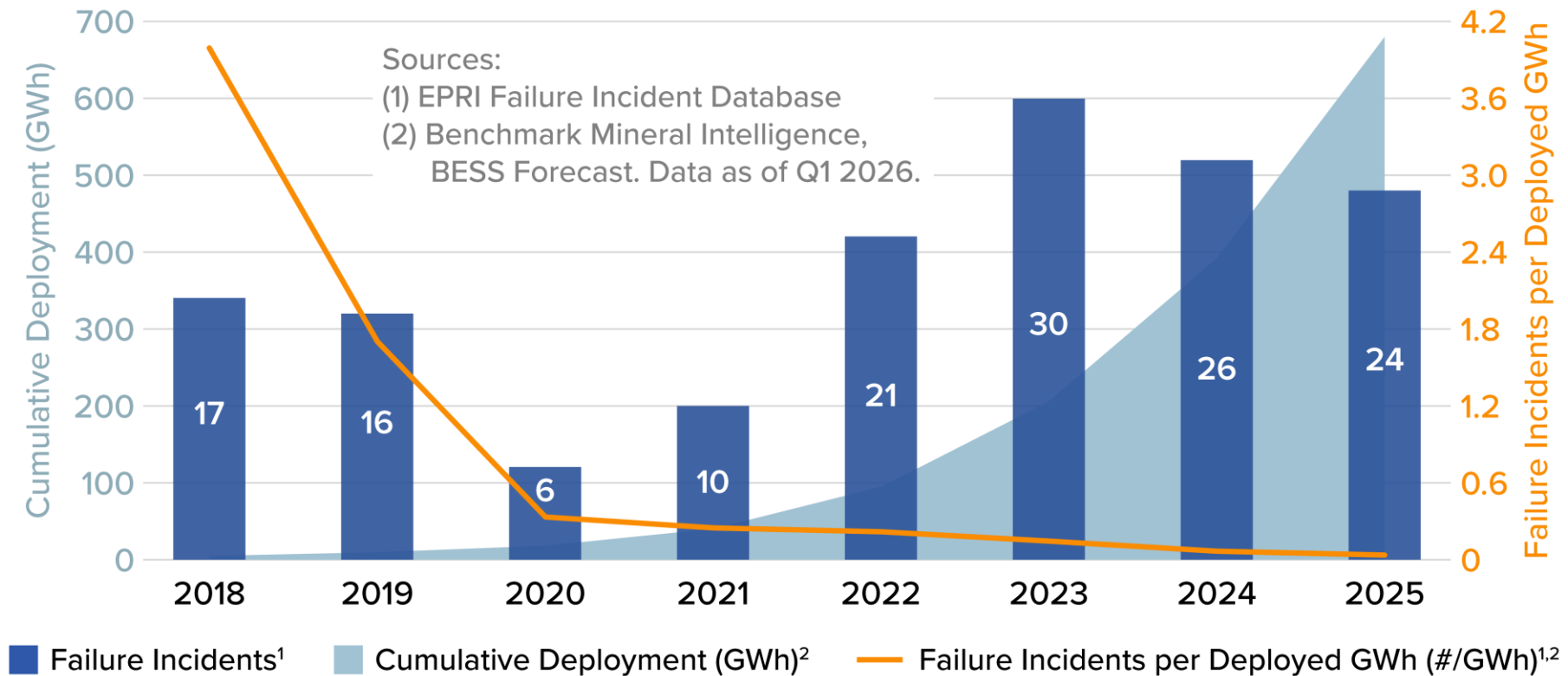
» **Global Presence**

Over 40 countries participate in EPRI research, development, and demonstration activities

Risk Factors

Global Grid-Scale Storage Deployment and Failures

Failure rate continues to decrease even as deployment accelerates



- Failure Rate Decrease 2018–2025: 99%

Tangible Benefits of Energy Storage: Case Studies

United Kingdom

- ✓ 34 tons of avoided CO₂ annually

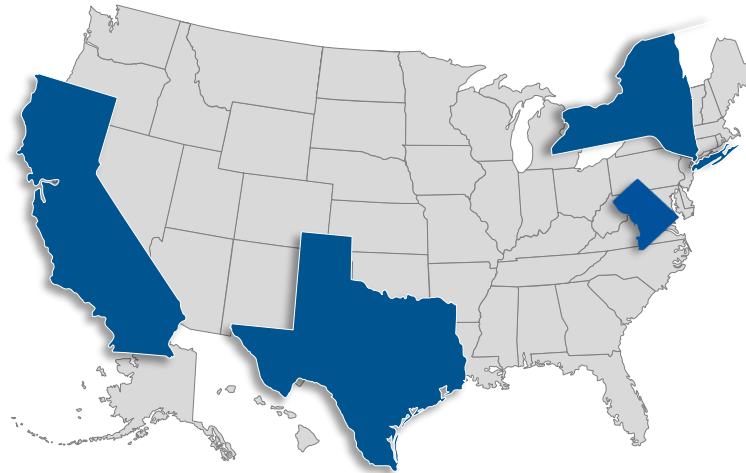


New York

- ✓ 482 new jobs
- ✓ Monthly bill savings of ~\$65
- ✓ Reduced greenhouse gas and air pollution

California

- ✓ 14,451 new jobs
- ✓ Lower electricity bills
- ✓ No more calls to reduce power usage



Washington, DC

- ✓ Backup power for up to 3 days
- ✓ Monthly bill savings of \$50–60



Texas

- ✓ No emergency load-shedding
- ✓ Lower risk of outages (down to 1% from 16%) during heat waves

Puerto Rico

- ✓ Backup power through hurricanes and earthquakes
- ✓ Reduced monthly bills
- ✓ 209 tons of avoided CO₂ annually

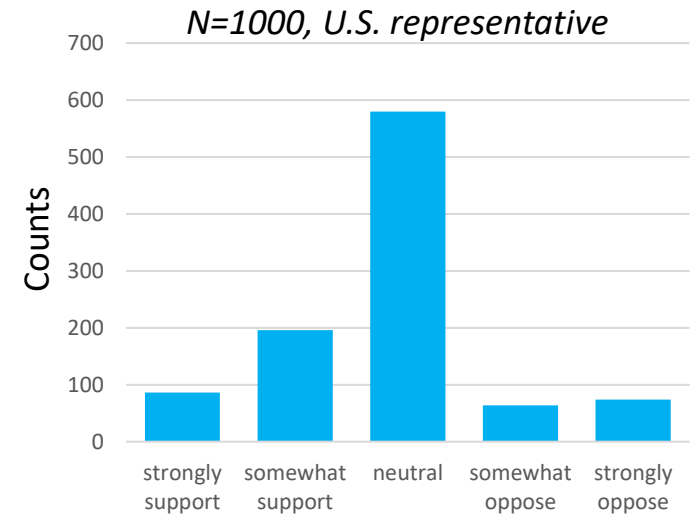
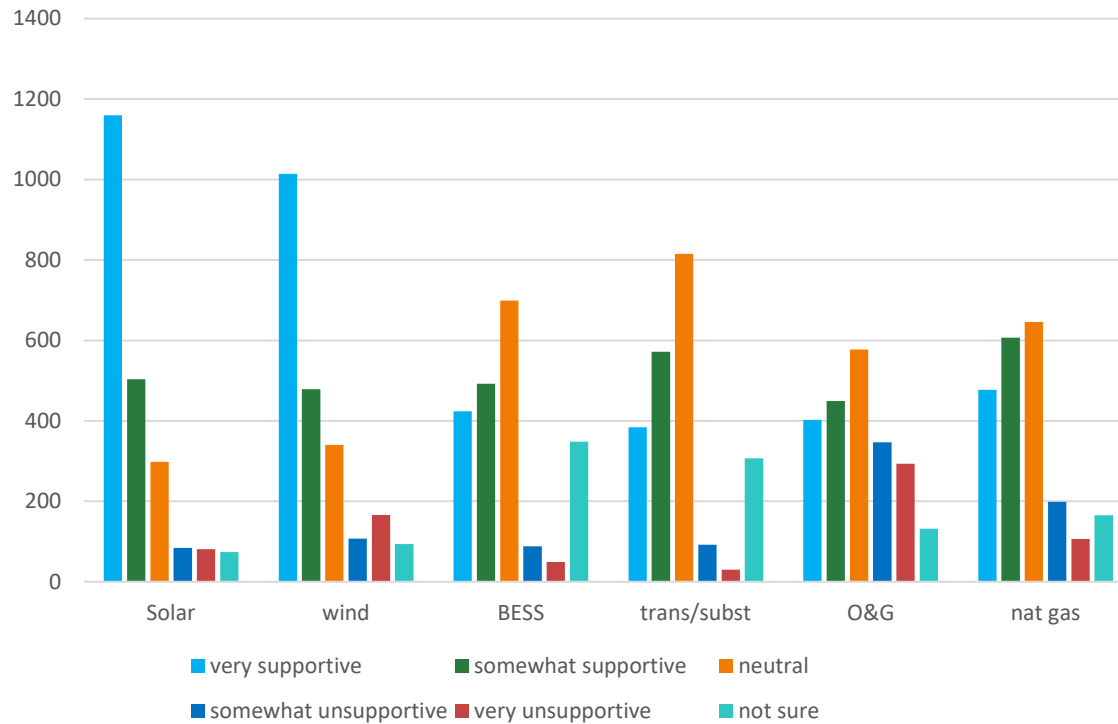
Australia

- ✓ Lower electricity bills (AU\$683 per household)
- ✓ Enabled energy efficiency



Stakeholder Perceptions of Battery Energy Storage

Preliminary results



86% of respondents living near BESS for 2 years were supportive or neutral regarding additional battery development

Of the people who were aware of the BESS, most (2.6x) found it had a positive impact on the community

Key Question: What do communities and permitting authorities understand about storage, its energy transition role, and community risks and benefits?

Applying Results: Results will inform future public education materials, benefit planning, workforce training, first responder safety training, and new BESS permitting





TOGETHER...SHAPING THE
FUTURE OF ENERGY®