

SOLAR ENERGY TECHNOLOGIES OFFICE

SETO's Soft Cost Resilience Work

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April 7, 2021

Solar Soft Costs (Rooftop)

SOFT COSTS BREAKDOWN



Source: National Renewable Energy Laboratory "U.S. Solar Photovoltaic System and Energy Storage Cost Benchmark: Q1 2020."

2

Core Components of SETO's Soft Costs Portfolio





Solar Market Pathways (2015-2017)

The Solar Market Pathways Program brought together 14 diverse teams under a single goal:

Drive down the soft costs of solar energy and accelerate deployment.



Products and tools are available at https://solarmarketpathways.org/

ENERGY & RENEWABLE ENERGY SOLAR ENERGY TECHNOLOGIES OFFICE

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Designing Resilient Communities High-Level Project Summary





Solar Energy Innovation Network

The <u>Solar Energy Innovation Network</u> is a collaborative research program that supports multi-stakeholder teams to research and share solutions to real-world challenges associated with solar energy adoption.

APPROACH

- Teams identify local and regional challenges, and receive technical and financial assistance to formulate and test innovations, and validate new models
- Teams meet in person for several multiday work sessions to further refine solutions and learn from other teams
- Research and innovative solutions shared through peer network



SOLAR ENERGY INNOVATION NETWORK

U.S. DEPARTMENT OF ENERGY







OBJECTIVE

 Develop innovative solutions that make solar energy adoption easier and enable stakeholders across the United States facing similar challenges to replicate them.

Products and tools are available at https://www.nrel.gov/solar/solar-energy-innovation-network.html



NARUC/PJM

Studied opportunities for solar to provide system resilience both at distribution and bulk power level, including valuation methodologies, regulatory approaches, and the potential for solar and storage to provide black start.

Groundswell

 Designing plan for a solar + storage micro-grid for resilience at Atlanta University campus complex to serve the campus and the local low-income community. Conducted expansive stakeholder engagement with the local community to understand its needs.

Tampa Bay Regional Planning Council

 Developing regional processes and models to help local governments (1) identify and prioritize sites for solar-plus-storage to support emergency management and resilience efforts; and (2) conduct costbenefit analyses that incorporate both economic variables and societal factors.

City of Reno

Quantifying value of resilience provided by solar + storage in a mid-sized city and implementing in city procurement, especially for emergency response and public safety facilities.

Resilient Communities





QUESTIONS?



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9