



Resilience Business Cases & Public Private Partnerships for Distributed Energy Resources

OBJECTIVES

Evaluate DER project sizing, ownership, operation, and economics to:

- **Educate key stakeholders and determine feasibility** of customer-sited and grid-scale energy storage, solar PV, microgrids and other non-wires alternative projects.
- **Facilitate conversations to evaluate project benefits**, costs, and different deployment scenarios.
- **Develop conceptual project sizing, design and costing** to establish innovative pilot and demonstration projects.

SIZING INPUTS

- Facility Load Profiles
- Solar PV Generation Profile
- DER Technology Preferences
- Sustainability & Resilience Preferences
- Critical Loads

ECONOMIC INPUTS

- DER Component Costs
- Wholesale Electric Costs
- Customer Rate Schedules
- NEM Policy/Solar Rate
- REC Pricing
- EPA Emission Rates
- Emission Reduction Health Benefits
- Value of Lost Load

TOOLKIT OUTPUTS

- DER Component Sizing
- DER Component Costs
- Project Soft Costs
- Costs & Benefits Inventory

ACCELERATE PROJECTS & PROGRAMS THROUGH ACTIONABLE SOLUTIONS

Support through education, research, and advisory services to establish frameworks for topics such as: microgrid ownership, regulatory implications, DER aggregation and virtual power plants (VPPs), innovative rates and tariffs, interconnection standards, and operating agreements.

MICROGRID OPERATION



Operating Modes



Interconnection Considerations



Operating Agreements

BUSINESS MODELS



Customer Ownership



3rd Party Ownership



Utility Ownership



Joint Ownership

PROJECT FINANCING



Upfront Cash Payment



Loan Purchase



Energy-as-a-Service