



C2C: Clean Energy to Communities

U.S. DEPARTMENT OF ENERGY

Enhancing Resilience at Critical Facilities through Solar, Storage, and Microgrids

Cohort Summary

January 2024



Enhancing Resilience at Critical Facilities Through Solar, Storage, and Microgrids

Identifying Hazards and Selecting Sites

January

Exploring Technology Options

March

Finalizing a Resilience Project Timeline and Proposal Considerations

May

February

Forming Partnerships to Execute a Resilience Project

April

Analyzing Ownership Models and Financing Structures

June

Peer Showcase, Discussion of Completed Implementation Strategies, and Conclusion

Expert Match TA (if applicable)

Cohort Participants

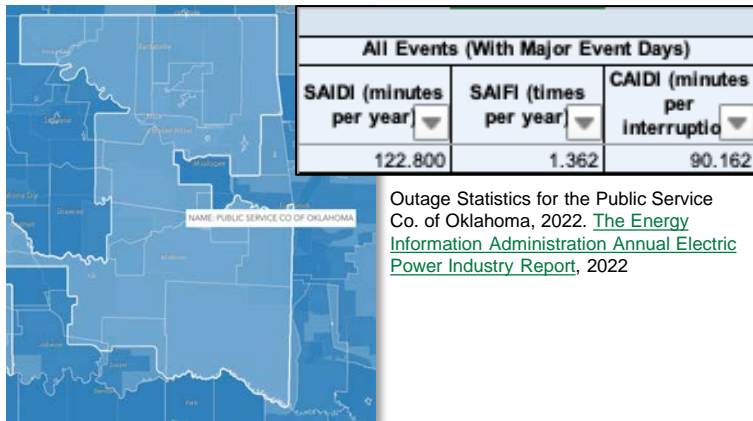
- Albemarle County, VA
- Bellevue College, WA
- Cook County, IL
- Detroit, MI
- Edmond Electric, OK
- Lander, WY
- LUMA Energy, PR
- Morris, MN
- Mesa, AZ
- Miami, FL
- Santa Monica, CA
- Tulsa, OK
- Stowe Electric Department, VT
- Philadelphia, PA

Workshop 1: Identifying Hazards and Selecting Sites

Theme

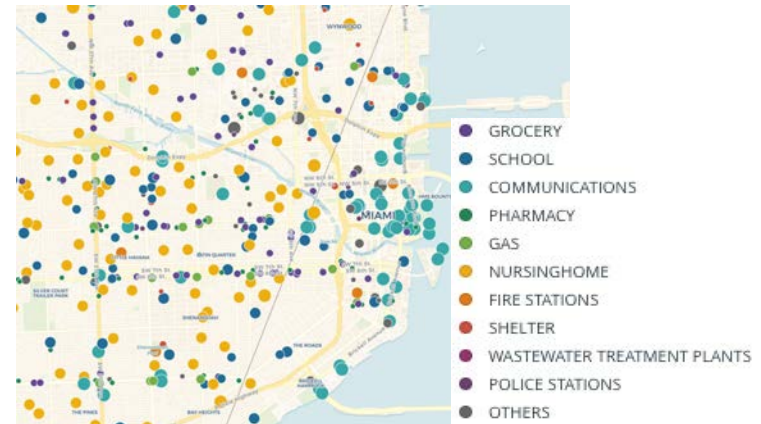
- Understanding the risks to be resilient to, what assets to protect, and the associated data and definitions

Power outage risk in Tulsa, OK



[The Homeland Infrastructure Foundation Level Database](#), Electric Retail Service Territories, Oak Ridge National Laboratory.

Prioritizing sites in Miami, FL

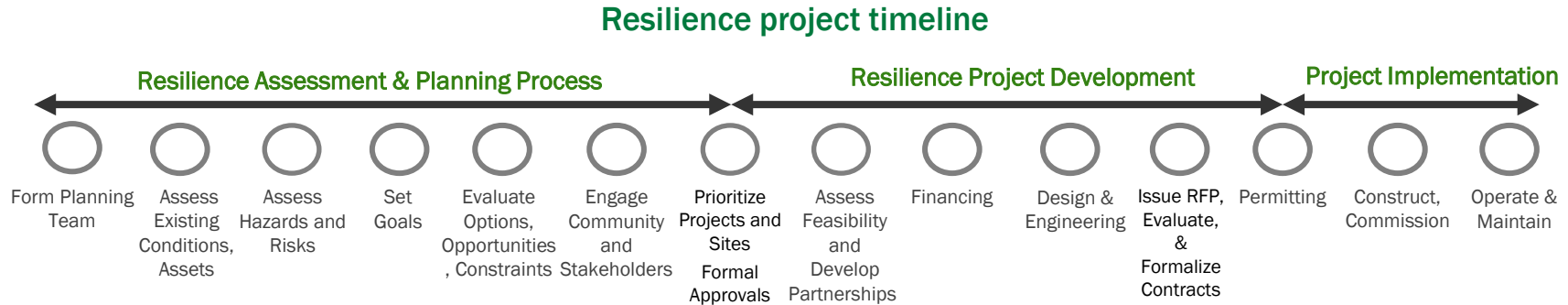


[REopt for Resilience Online Curriculum, Module 1: Prioritizing Facilities](#)

Workshop 2: Forming Partnerships to Execute a Resilience Project

Theme:

- Understanding the resilience project timeline, considerations for the operations & maintenance phase, and the power of partnerships

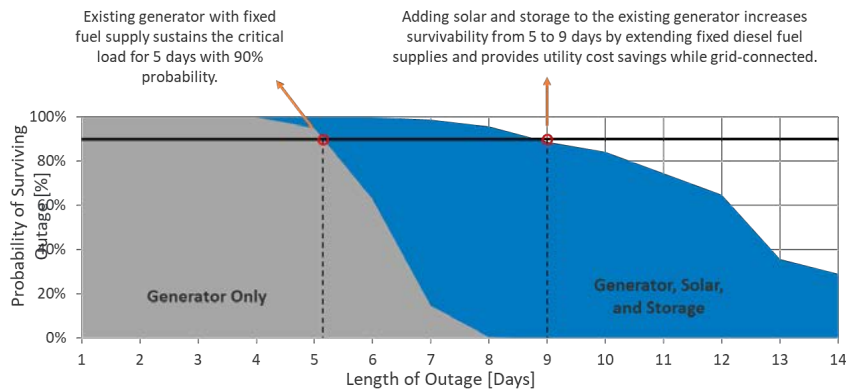


Workshop 3: Exploring Technology Options

Theme:

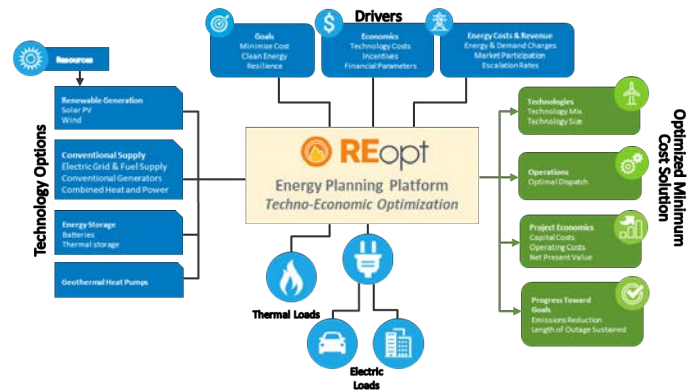
- Understanding technology options, data needs, and evaluation tools

REopt evaluation of resilience



Source: Montgomery County, MD Office of Energy and Sustainability. <https://www.montgomerycountymd.gov/DGS-OES/MGP-PSHQ.html>

REopt Energy Planning Platform

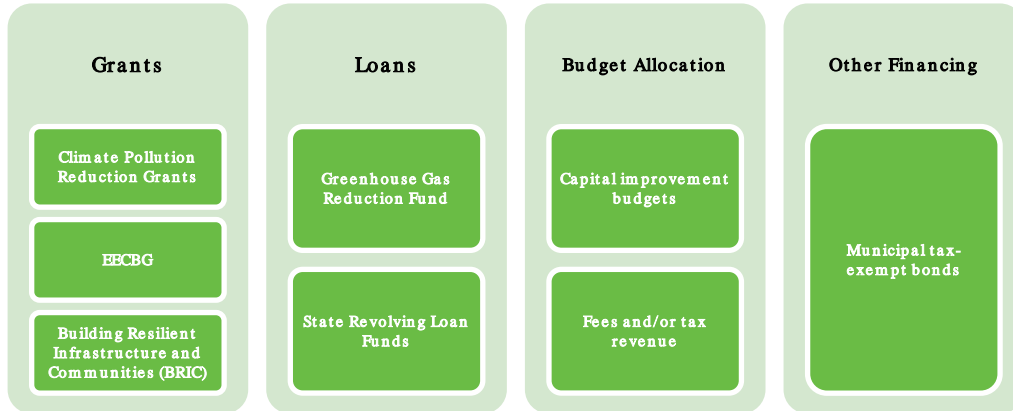


Workshop 4: Analyzing Ownership Models and Financing Structures

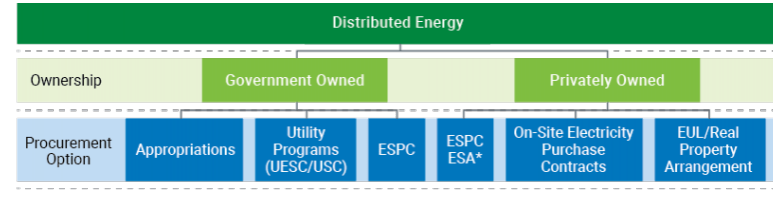
Theme:

- Understanding available ownership models and funding/financing options, and common approaches to both.

Potential sources of funding



On-site project procurement options



Legend & Abbreviations

UESC	Utility Energy Service Contract	PPA	Power Purchase Agreement
ESPC	Energy Savings Performance Contract	EUL	Enhanced Use Lease

Workshop 5: Finalizing a Resilience Project Timeline and Proposal Considerations

Theme:

- Learning the qualities of a strong Request for Proposals that will result in your desired outcomes, and considerations for evaluating responses.

Potential objectives and value statements in an RFP



RFP criteria weighing - Fairfax County

Criteria	Weight
Cost Effectiveness	40 pts
Technical Approach & Timeline	25 pts
Qualifications	20 pts
References	15 pts

The RFP process



Additional Technical Assistance



SolSmart is a federally funded designation program that provides technical assistance to local governments that are working on reducing soft costs related to local solar deployment.

<https://www.solsmart.org>



The ESPC Campaign is a Department of Energy supported program that provides technical assistance and a space for public sector building owners to share and learn about the benefits of energy savings performance contracting.

<https://www.energy.gov/scep/esp-campaign/home>



DOE's Better Buildings Climate Challenge is a network of participants working to reduce GHG emissions and decarbonize their building stock. Members have access to peer-learning opportunities, TA, and other resources.

<https://betterbuildingsolutioncenter.energy.gov/climate-challenge/about>