



Resilience Funding: Planning for Success

NASEO Annual Meeting 2022



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ICF's energy + climate footprint

We design robust future-focused solutions in response to industry, policy, and environmental changes

 **ClimateSight**
CO₂Sight™

50+
years of
energy work

+2K
Energy and
environment
experts

Top 50
utilities in North
America

+200
energy efficiency
programs

All major
federal agencies

All major
energy NGOs

40+
years of
climate science,
impacts, &
adaptation

+100
dedicated climate
change experts

500+

grant and financial
management experts

\$100+

billion federal grant
funds managed

20+

years of experience
supporting grant
management and related
technical assistance
requests



ICF Supports the Grants Management needs of Federal, State, and Local Governments

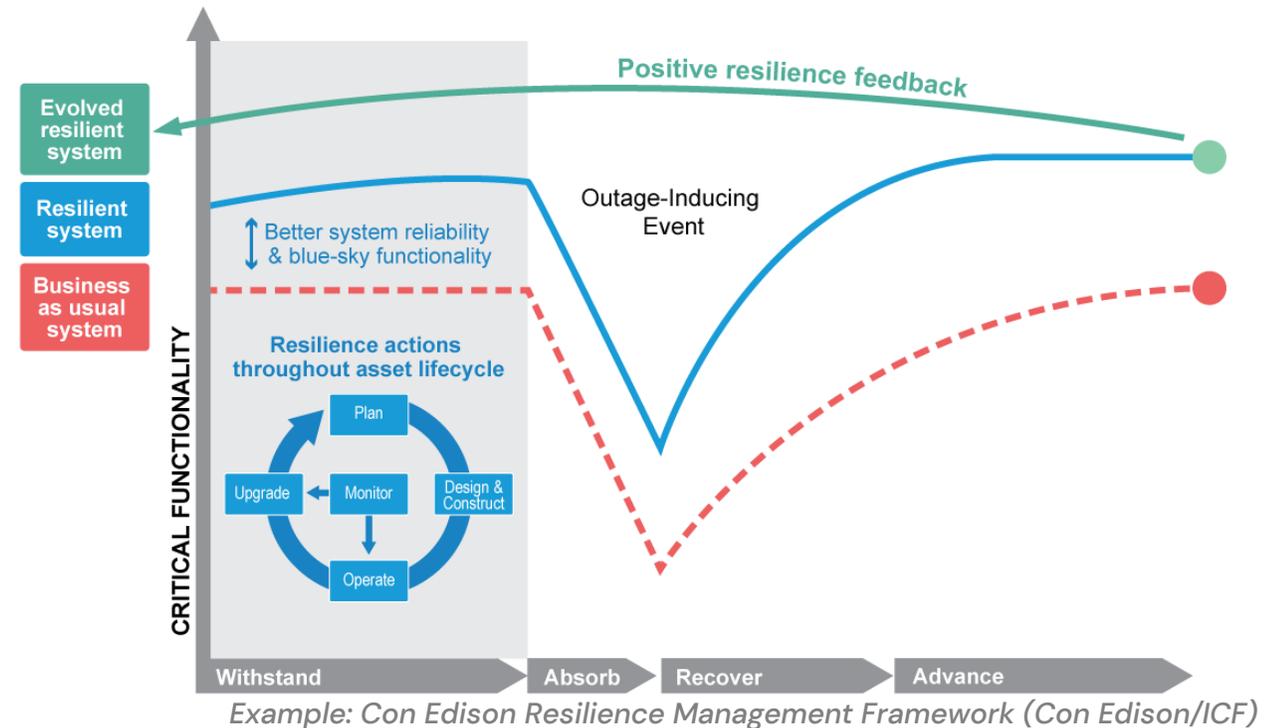
- Program planning, launch, and operation
- Strategic communications
- Data analytics/visualization
- Workforce development

- With ICF support, NASEO will be releasing a FEMA Building Resilient Infrastructure and Communities (BRIC) Action Guide in fall 2022
 - Written for State Energy Offices, State Emergency Management Agencies, and local entities (utilities, municipalities)
- Energy resilience focus:
 - Mitigation of power loss to end users and critical facilities/infrastructure (e.g., microgrids, generators, etc.)
 - Mitigation to energy systems themselves (e.g., underground of utility lines, transmission line redundancy, etc.).
- Intended to be a living document updated annually based BRIC program guidance



→ **NASEO's FEMA BRIC Guidance**

- ✓ Know the **vulnerabilities, risks, criticalities, and consequences** for your infrastructure—leverage Energy Security Plan process where possible and identify data needs and sharing protocols
- ✓ Draw in **diverse skill sets**: climate change science, resilience planning and metrics, grid hardening, T&D planning, emergency response, stakeholder management, and communications
- ✓ **Co-create the future with stakeholders**—form partnerships on a continual basis to **incorporate equity-related** and other perspectives, as well as to pursue funding
- ✓ Support **creativity** and look to **benefit the most vulnerable**—*think beyond reliability*



→ Lessons from Utility Resilience Planning

- To support HMGP Advance Assistance grant application for energy resilience, ICF helped SDG&E to investigate the convergence of climate risks and vulnerable communities
- Considered a variety of metrics to inform vulnerability:
 - San Diego Climate Equity Index (CEI)
 - CPUC defined Disadvantaged Vulnerable Communities
 - CDC's Social Vulnerability Index
- Examined current and future climate risks:
 - Wildfire
 - Extreme heat
 - Sea level rise

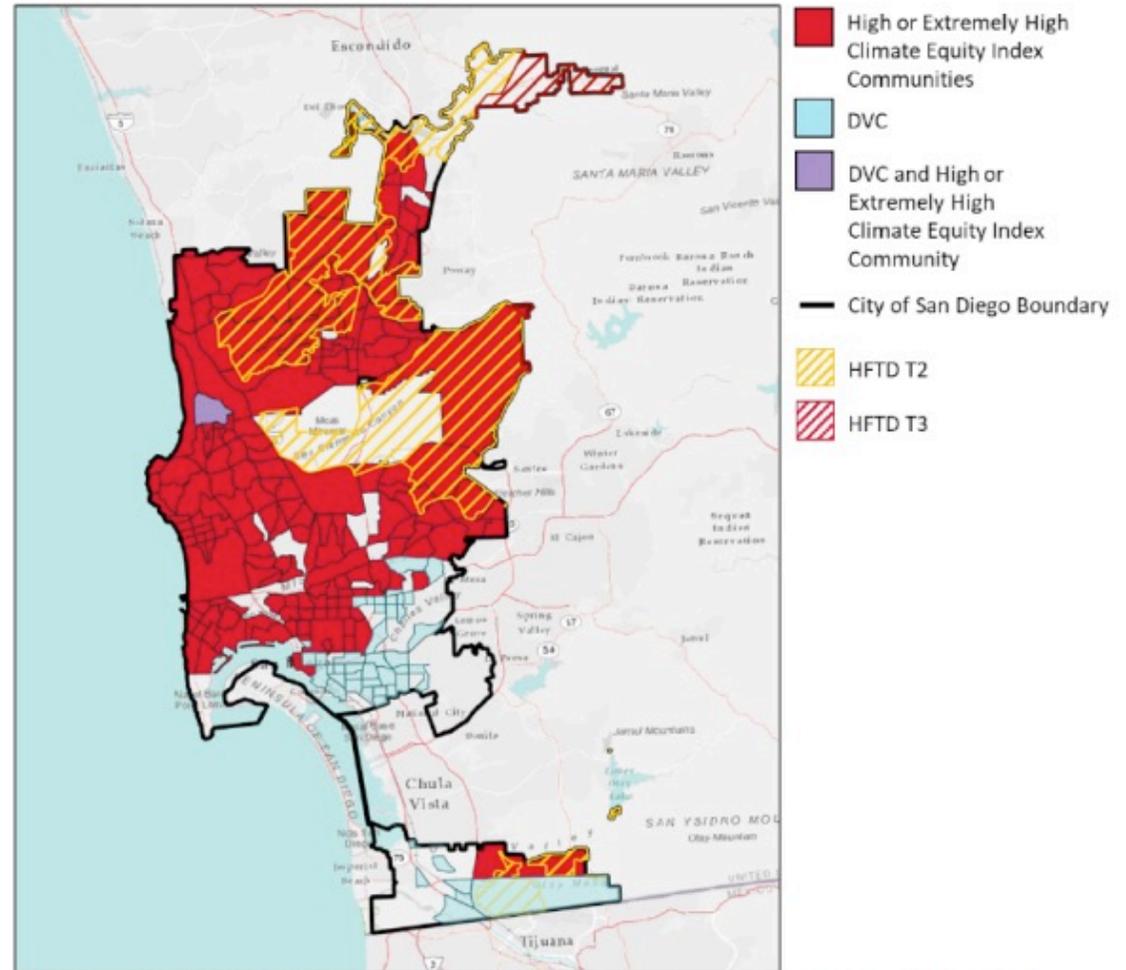
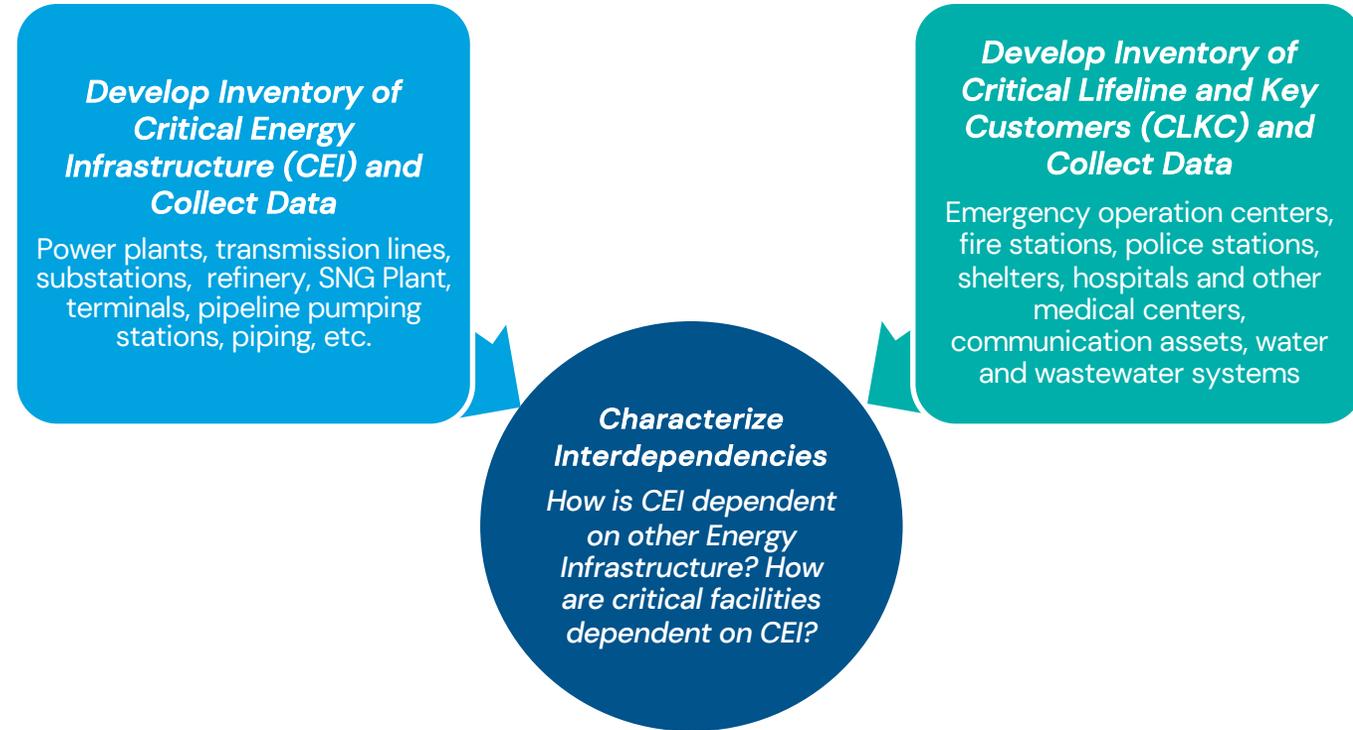


Figure 9. Convergence of Disadvantaged Communities and the High Fire Threat District, Tiers 2 and 3

→ Prioritizing Vulnerable Communities for Resilience Projects— SDG&E

- ICF is supporting the Hawai‘i State Energy Office with funding from a FEMA Advance Assistance grant (HMGP), building on the O‘ahu multi-hazard mitigation plan with focus on energy resilience
- **Approach:**
 - Inventory Critical Energy Infrastructure and map dependencies
 - Conduct risk assessment
 - Bring results into a geospatial decision support system
 - Identify risk mitigation solutions and make Implementation Plan—Federal funding priorities
- **Timeline:** First phase covering O‘ahu through Q1 2023



→ O‘ahu Energy System & Critical Infrastructure Vulnerability & Resiliency Assessment



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