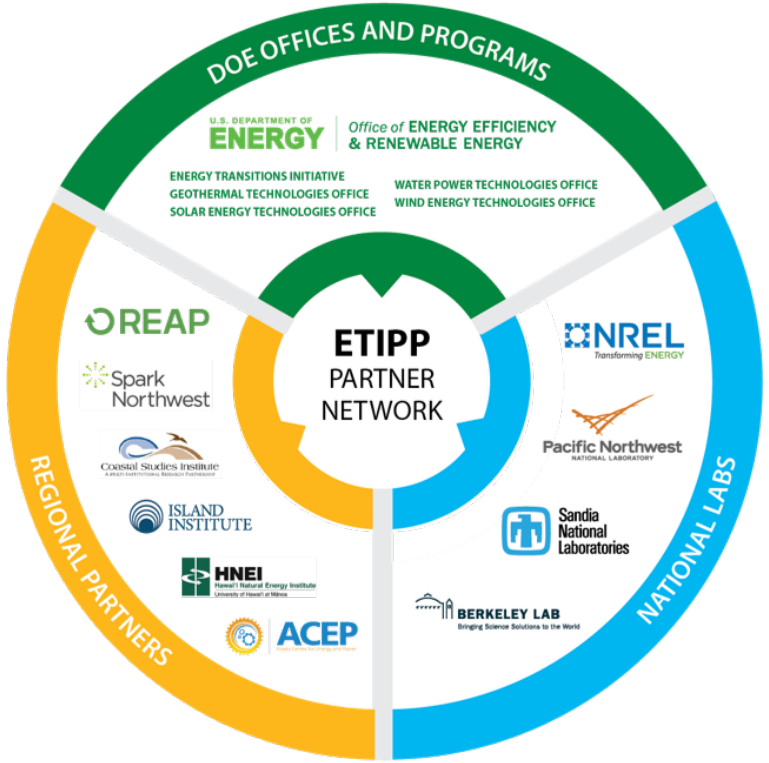
Energy Transitions Initiative Partnership Project (ETIPP)

Jordan Burns
National Renewable Energy Laboratory



ETIPP connects remote and island communities with regional and national energy experts who can provide strategic energy analysis and planning for local energy resilience projects.

ENERGY TRANSITIONS INITIATIVE

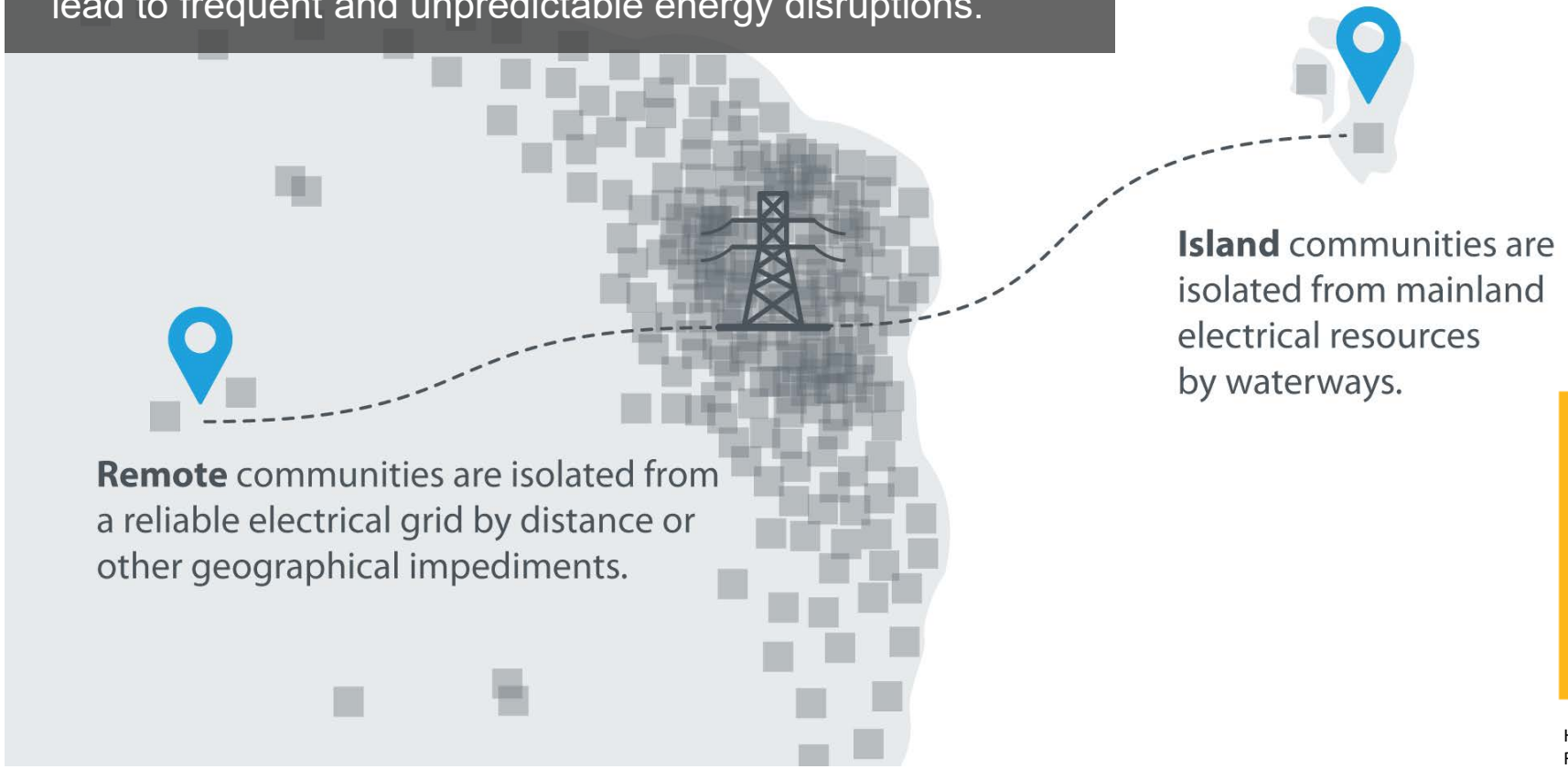
U.S. Department of Energy

Partnership Project

Energy Transitions Initiative Partnership Project

Remote and Island Communities

Challenges:
Aging infrastructure, climate change, and natural disasters lead to frequent and unpredictable energy disruptions.



Remote communities are isolated from a reliable electrical grid by distance or other geographical impediments.

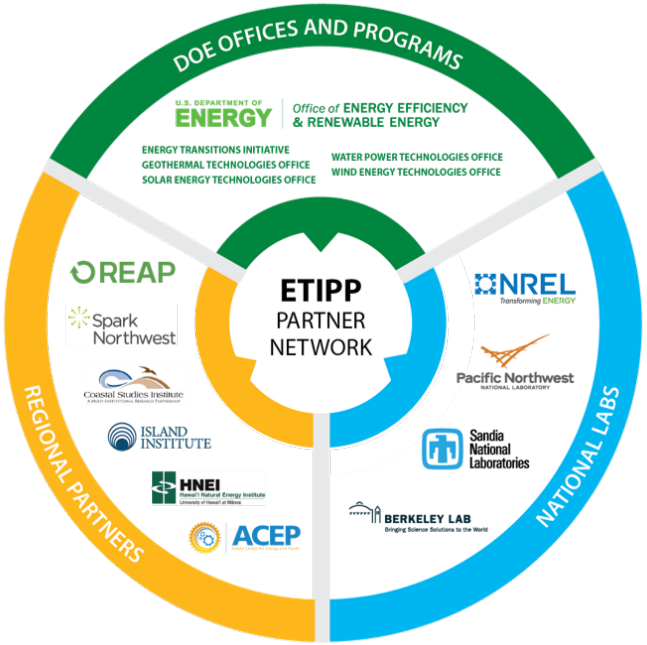
Island communities are isolated from mainland electrical resources by waterways.

Energy Resilience

The ability to anticipate, prepare for, and adapt to changing conditions and withstand, respond to, and recover rapidly from energy disruptions.

Hotchkiss, Eliza and Alex Dane. 2019. Resilience Roadmap: A Collaborative Approach to Multi-Jurisdictional Resilience Planning. Golden, CO: National Renewable Energy Laboratory. NREL/TP-6A20-73509. https://www.nrel.gov/docs/fy19osti/73509.pdf

What Does ETIPP Do?



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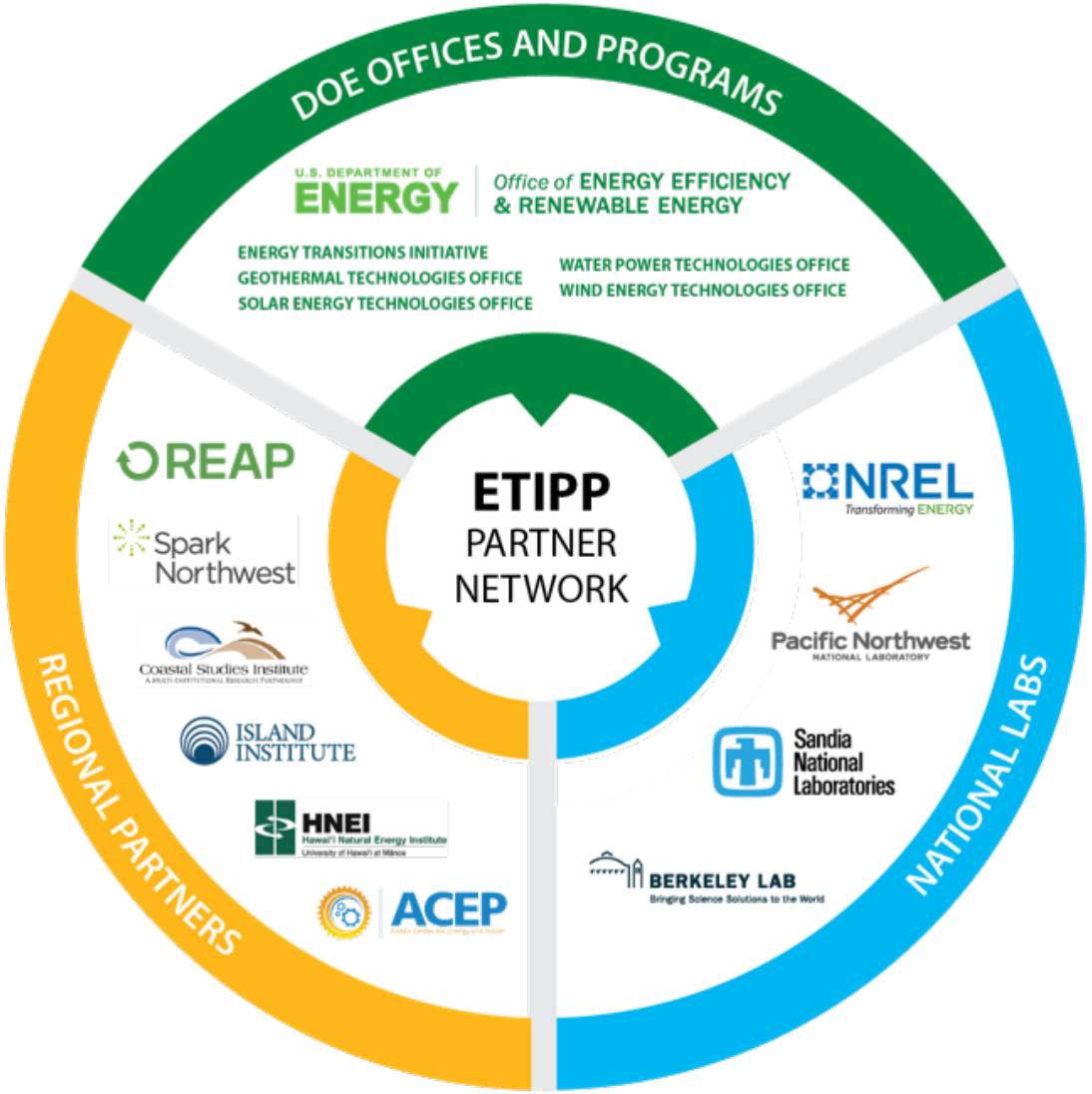
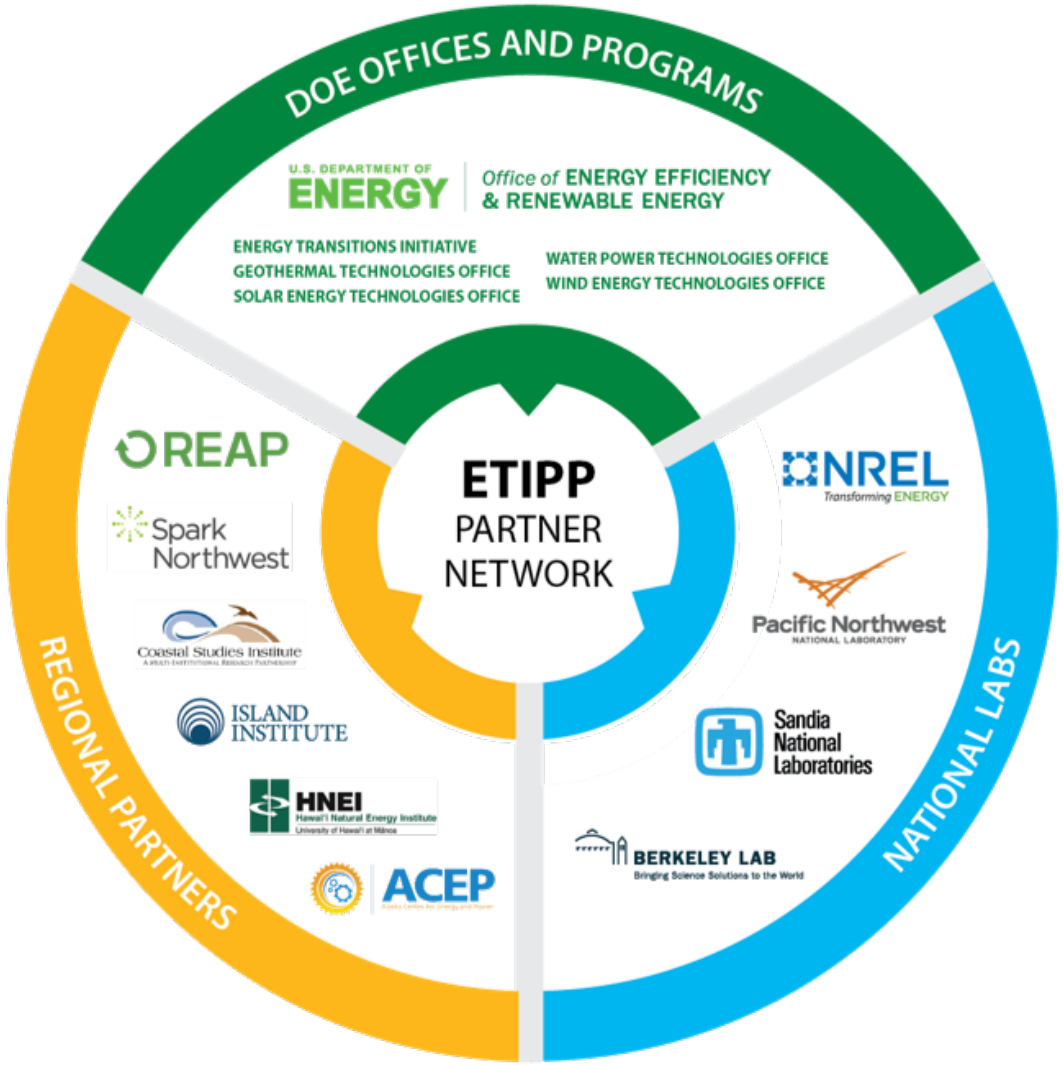
ETIPP Communities 2021 and 2022

ETIPP DOE Offices and Programs



ETIPP is funded and supported by the U.S. Department of Energy and its Office of Energy Efficiency and Renewable Energy.

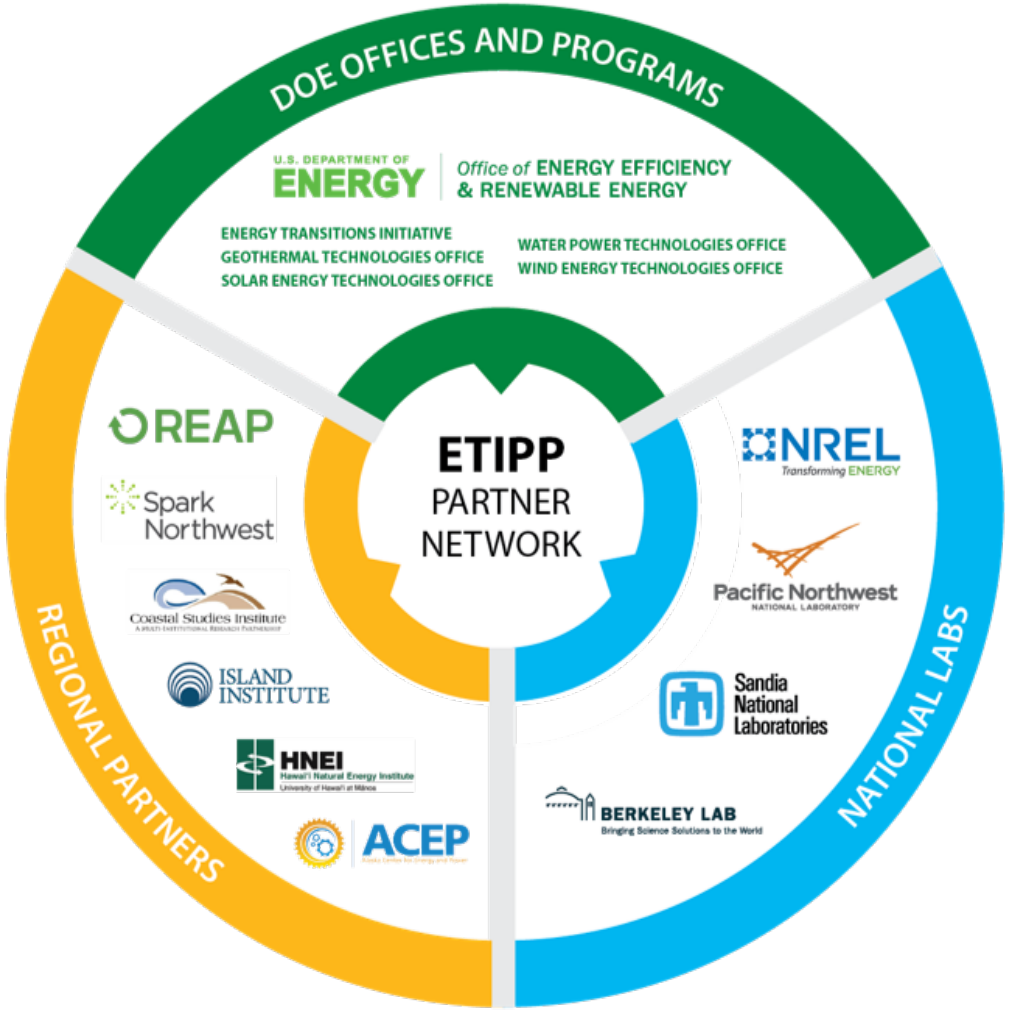
National Laboratories Supporting ETIPP



Researchers at national labs work alongside communities to conduct strategic energy analysis and planning that helps communities identify the best options that meet their needs.

ETIPP Regional Partner Organizations

Regional partner organizations (e.g., nonprofits, academia) have the contextual understanding of local culture, needs and challenges, making them an important project contributor and collaborative liaison among communities and national labs.



Thank You

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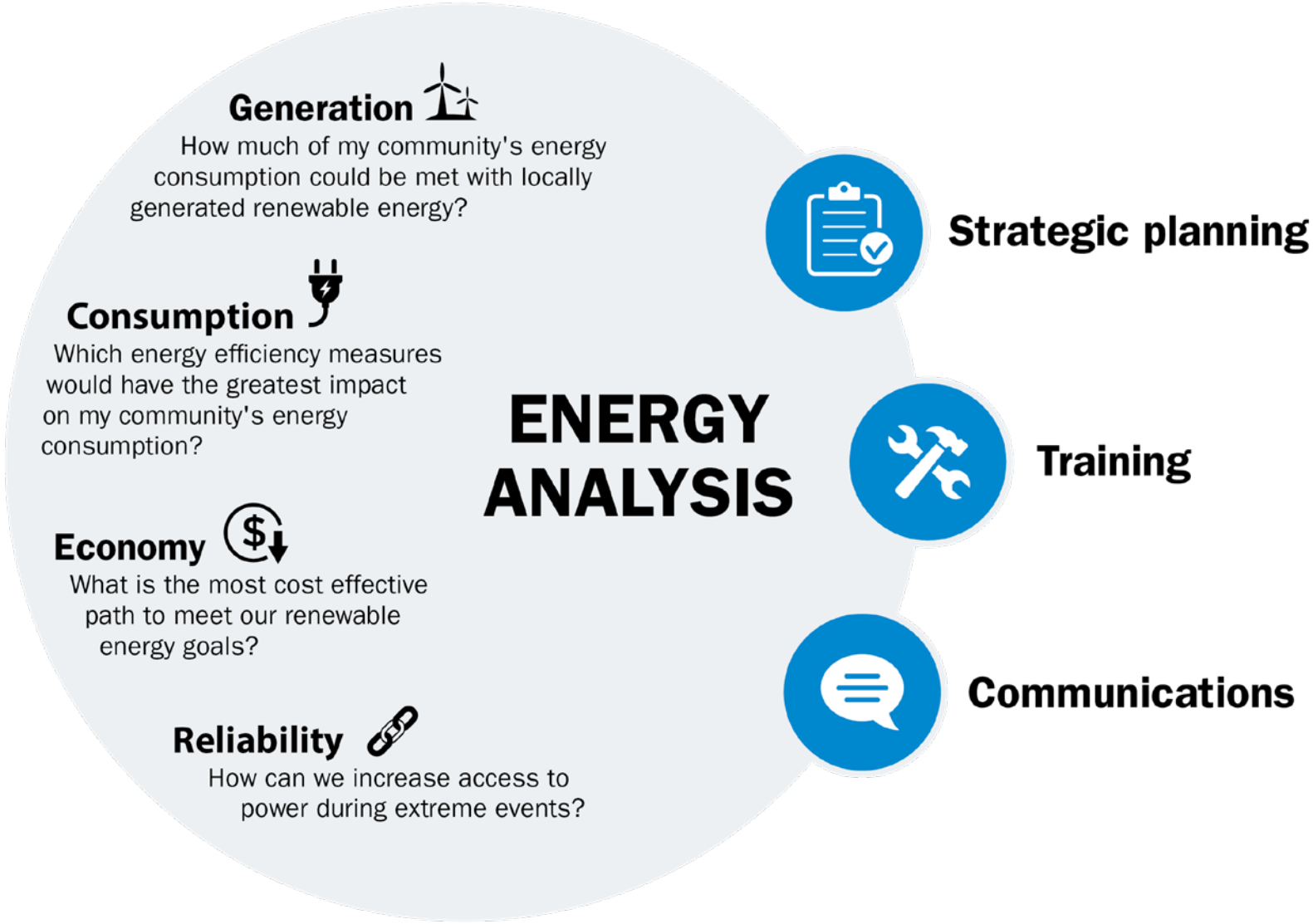
NREL/PR-5R00-83835

What Is Technical Assistance?



ETIPP Project Timeline

Select Communities

Competitive call for communities seeking technical assistance via ETIPP.

Application period *(approx. 3 months)*

Regional partners and national labs provide input on community applicants.

DOE selects 8-12 communities to participate in ETIPP

Technical Assistance and Support

Connect each community with national lab technical lead to develop an energy resilience work plan.

Work plan scoping *(approx. 3-6 months)*

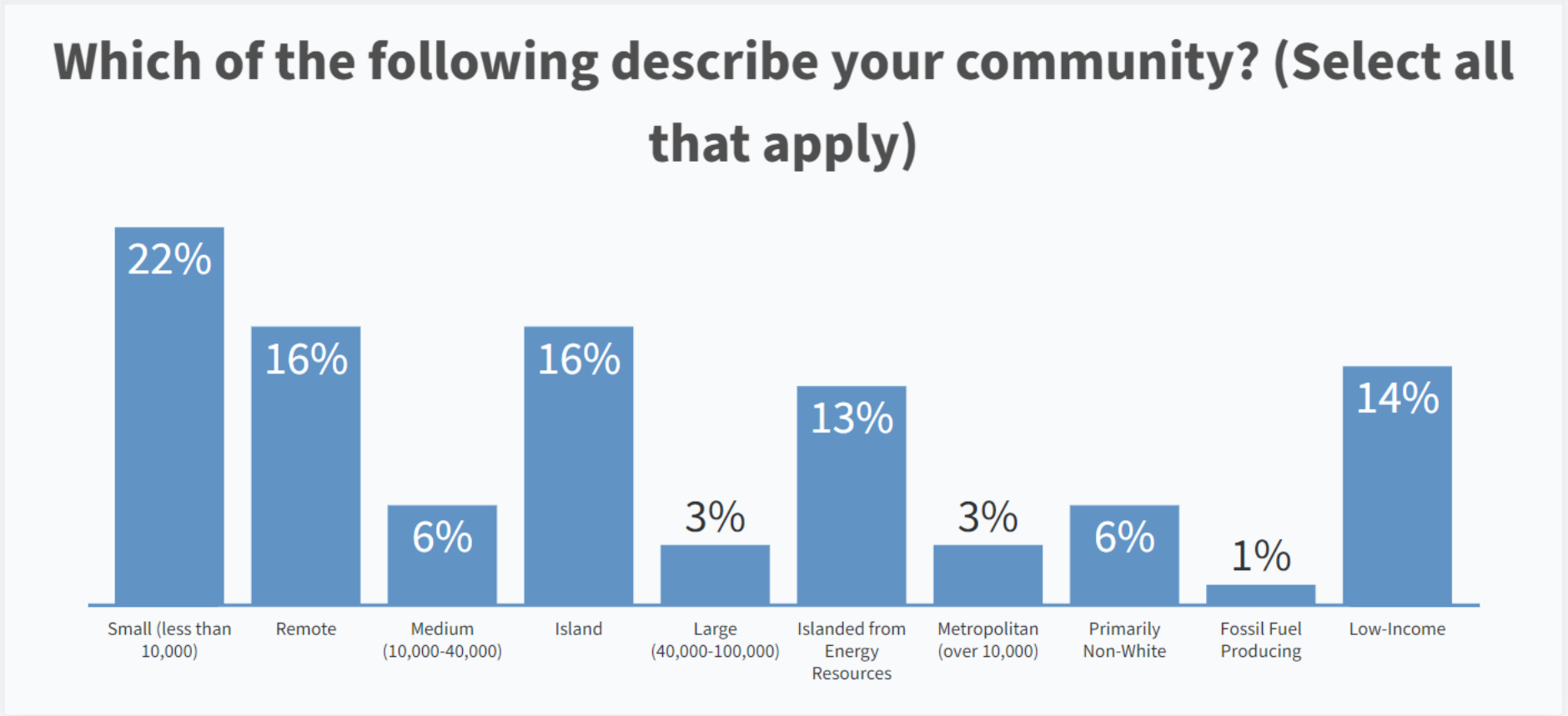
Technical assistance execution *(approx.12-18 months)*

Knowledge-Sharing Network

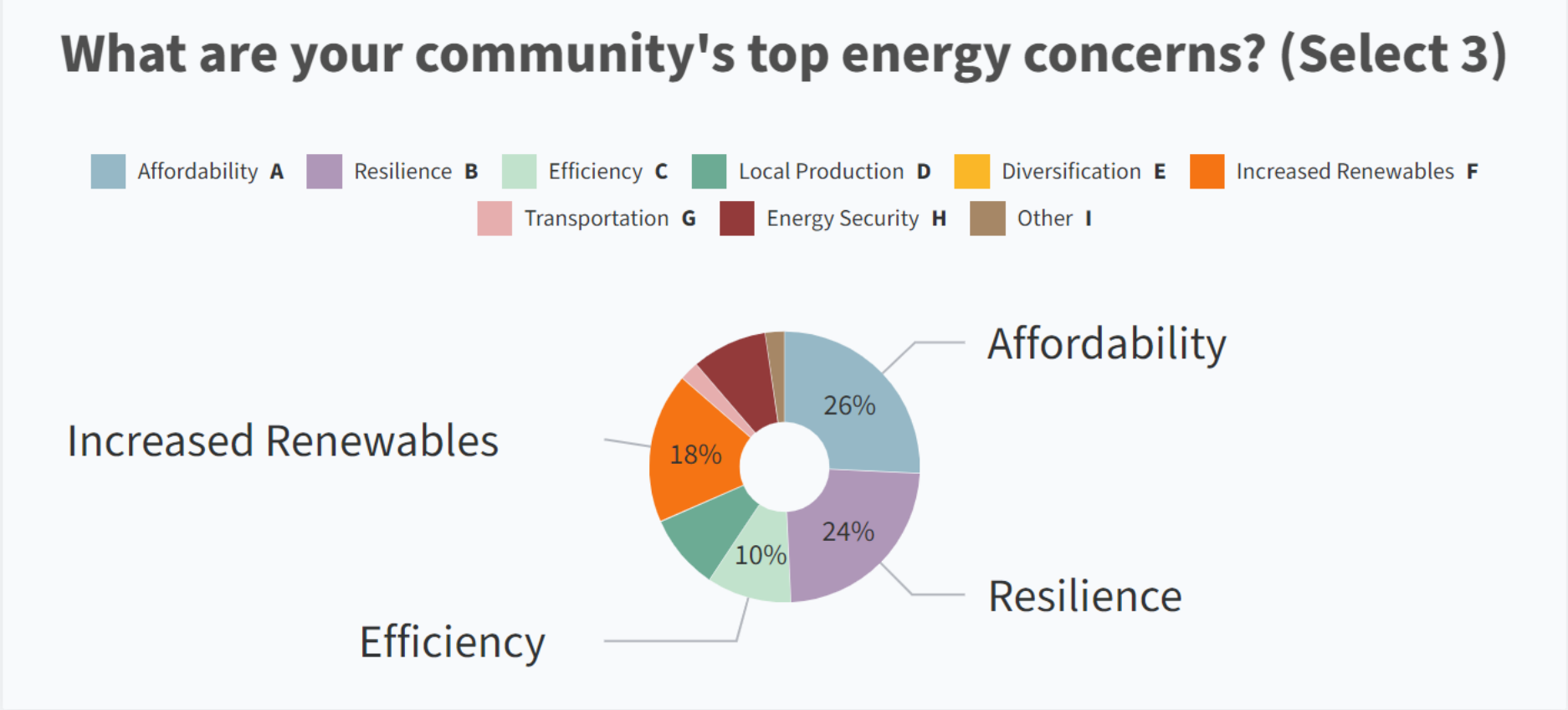
Communities, regional partners, and national labs contribute to a knowledge-sharing network, resulting in lessons learned and use cases for future use.

LEARNINGS

ETIPP Webinar: Live attendee poll



ETIPP Webinar: Live attendee poll



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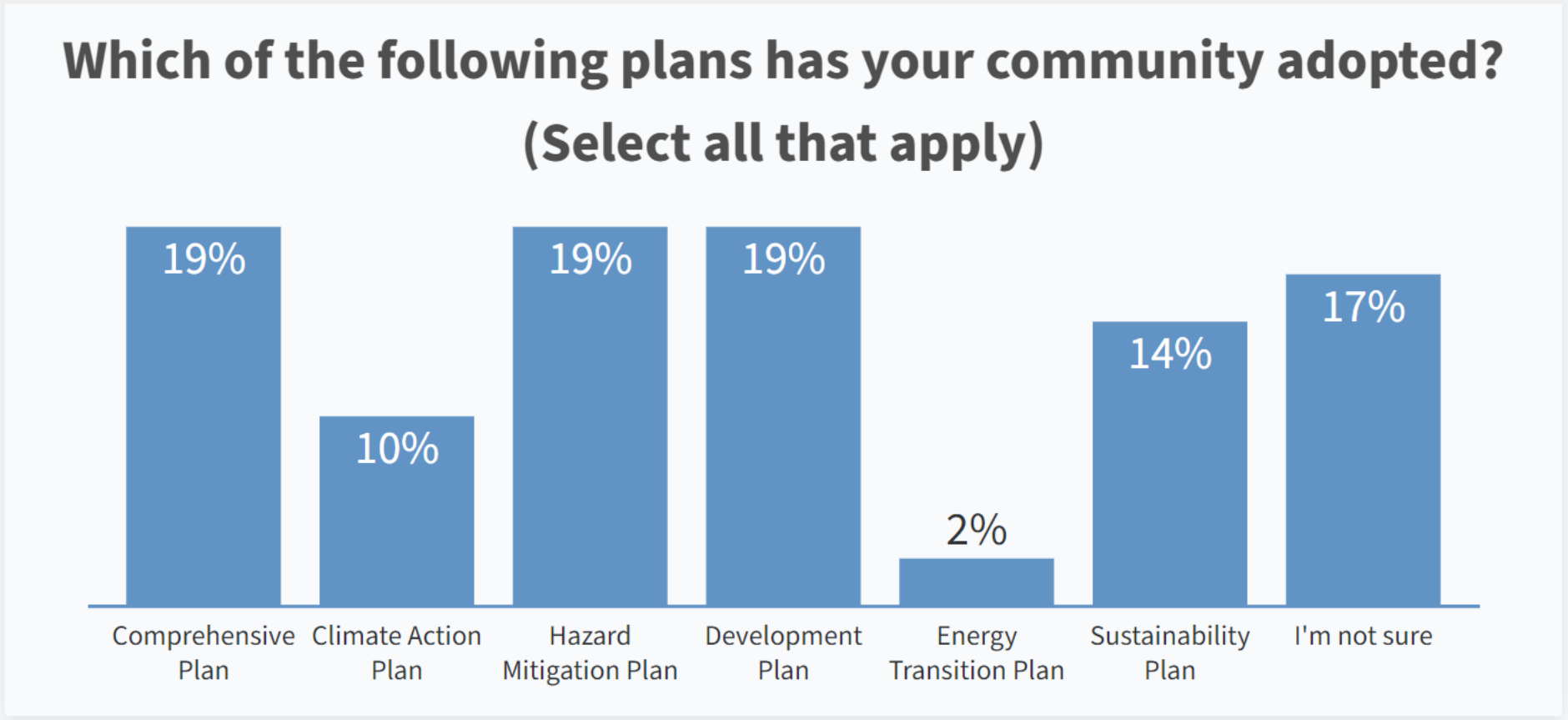
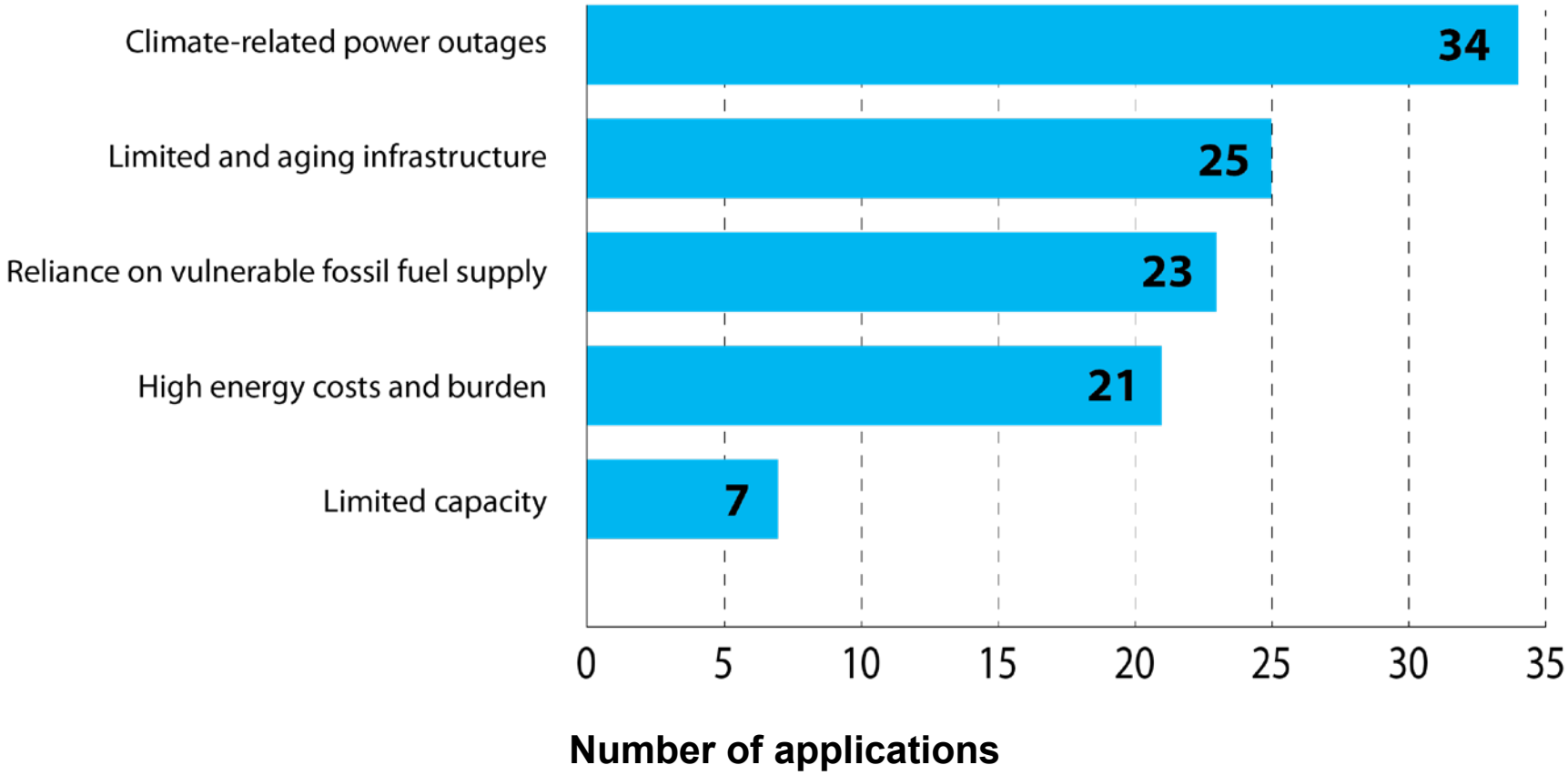
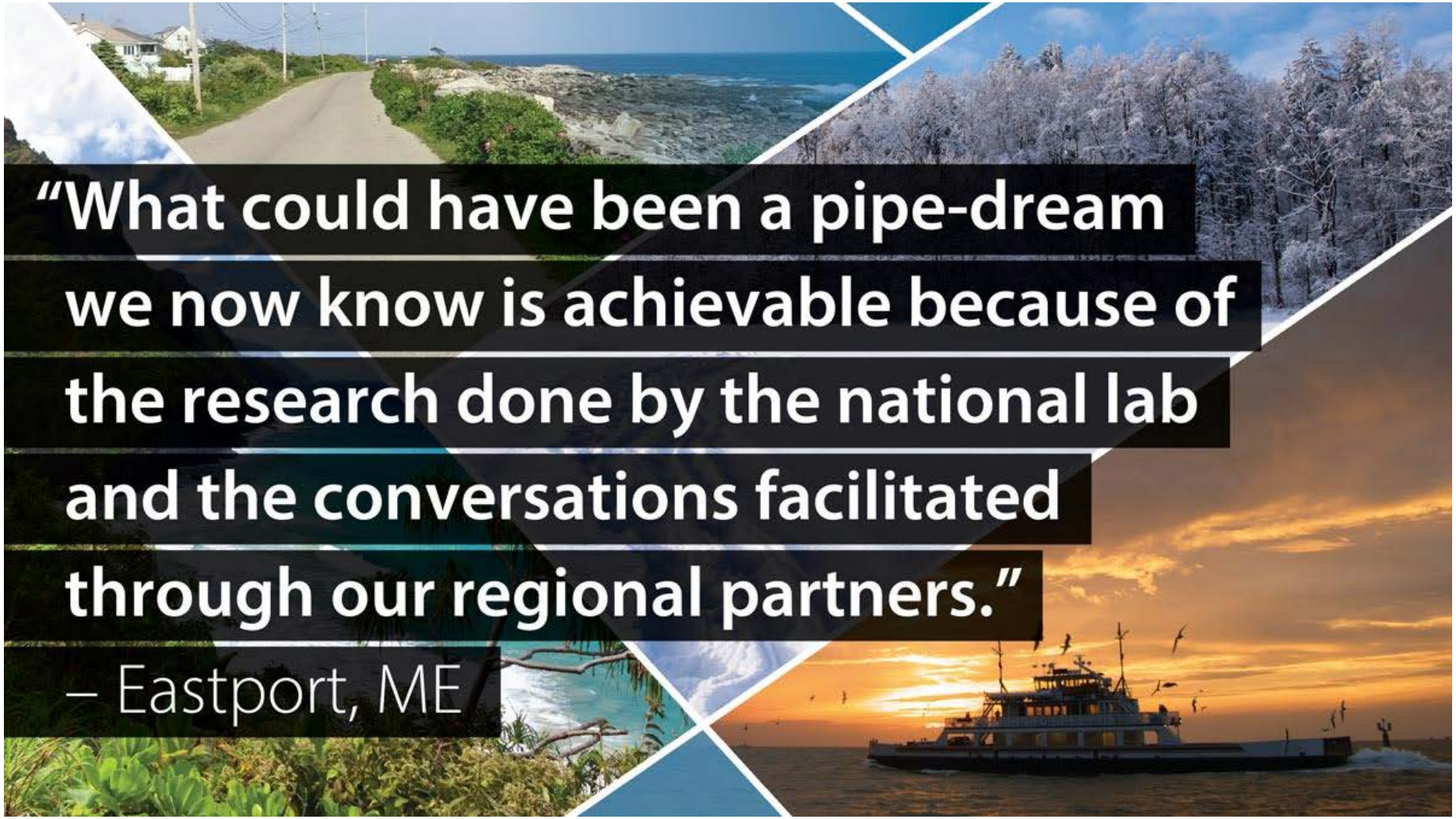


Unique Energy Challenges

Challenges cited by ETIPP applicants in their applications (FY 2021 and 2022)



ETIPP Community



ETIPP Community

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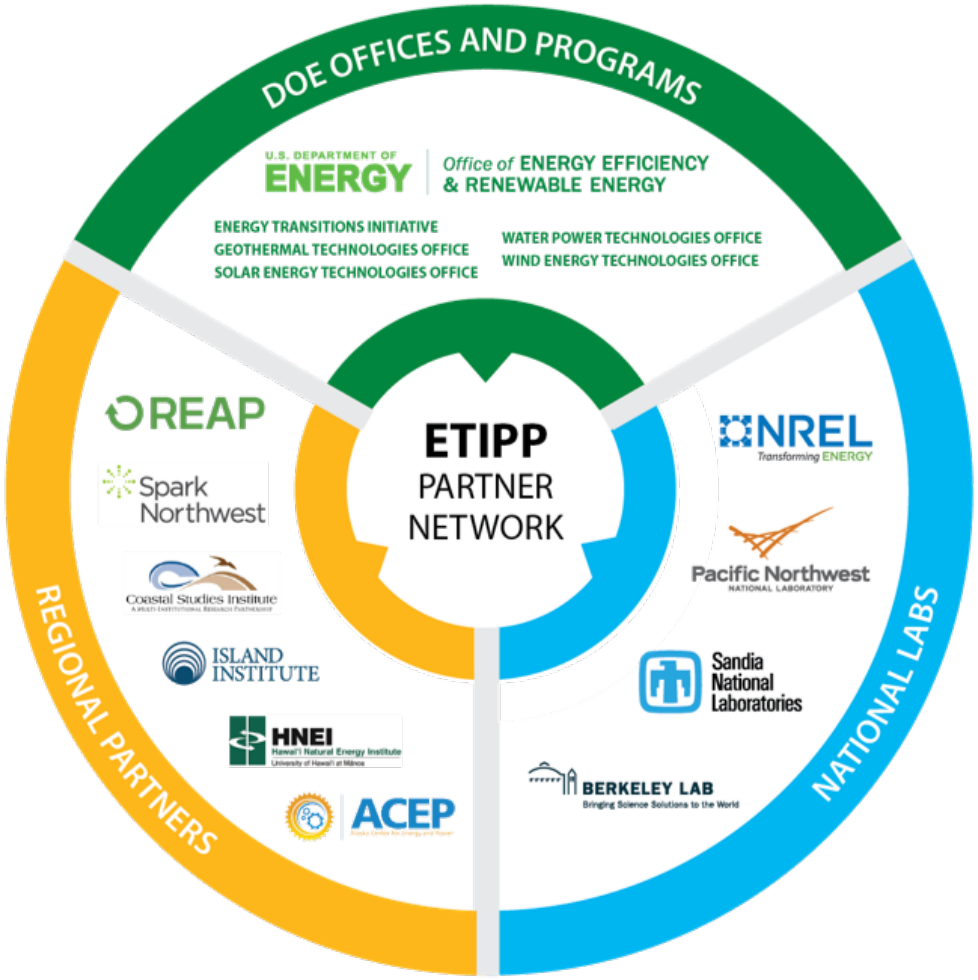
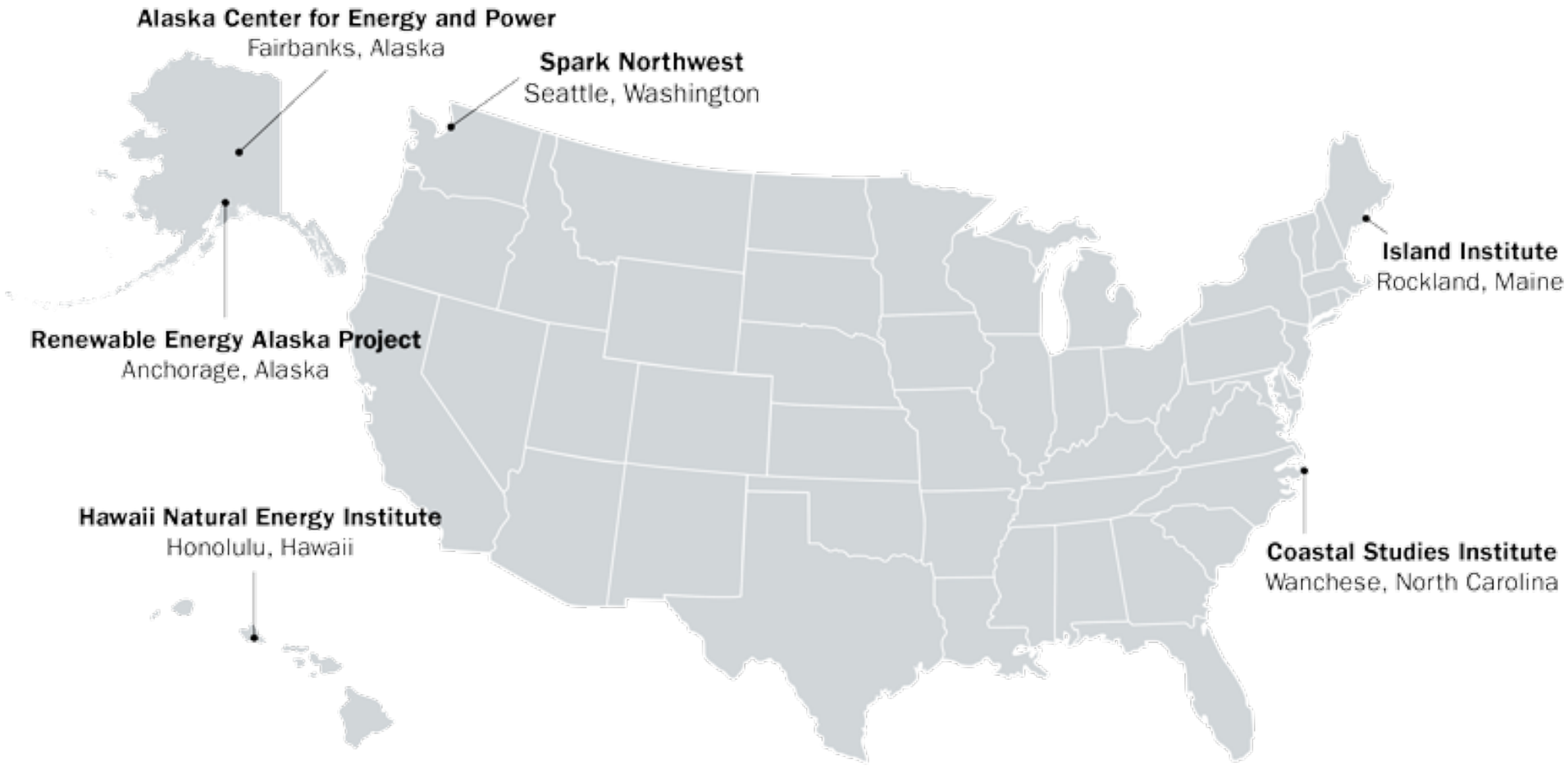
ETIPP Partner Network

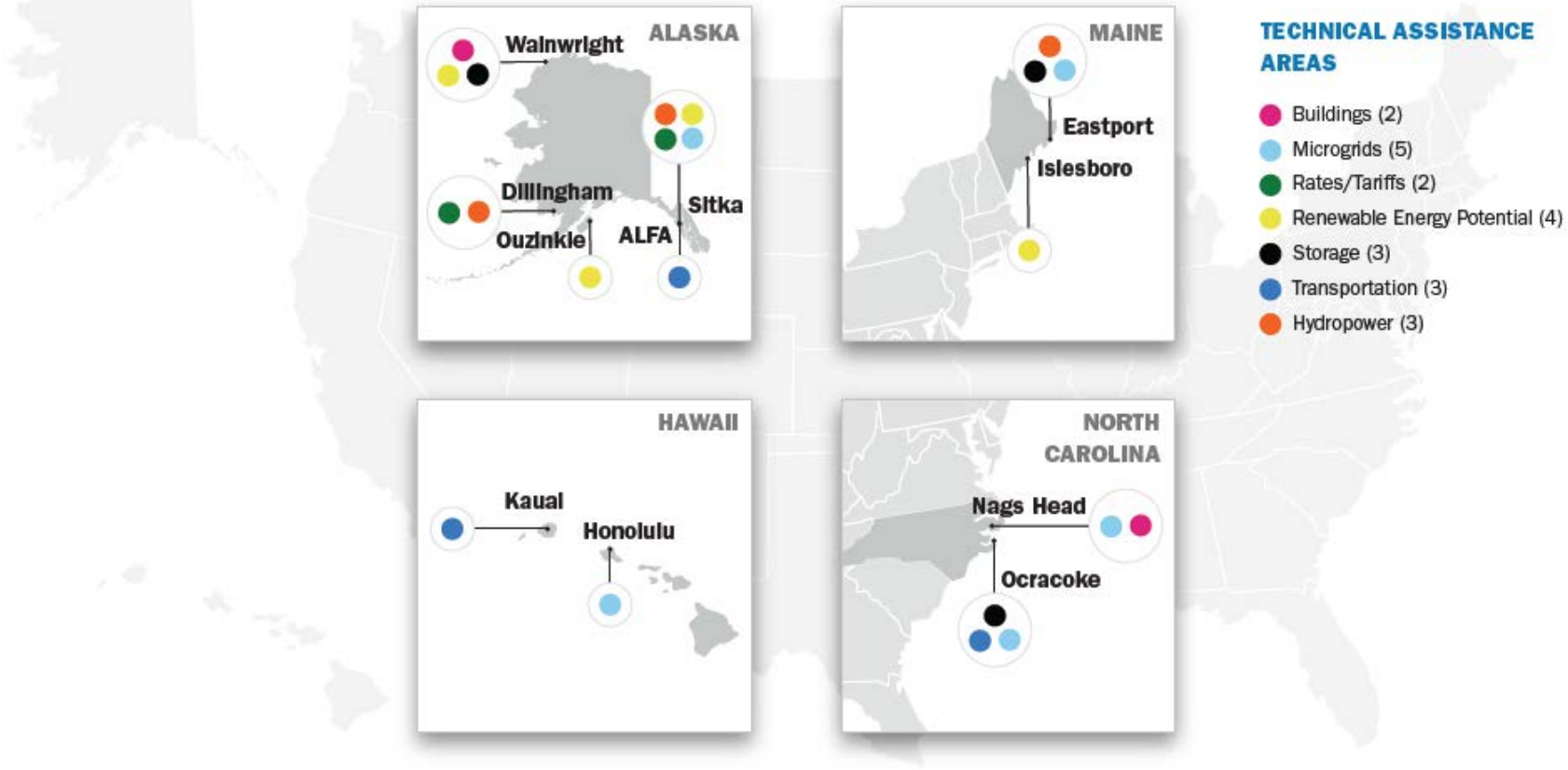


ETIPP Regional Partners

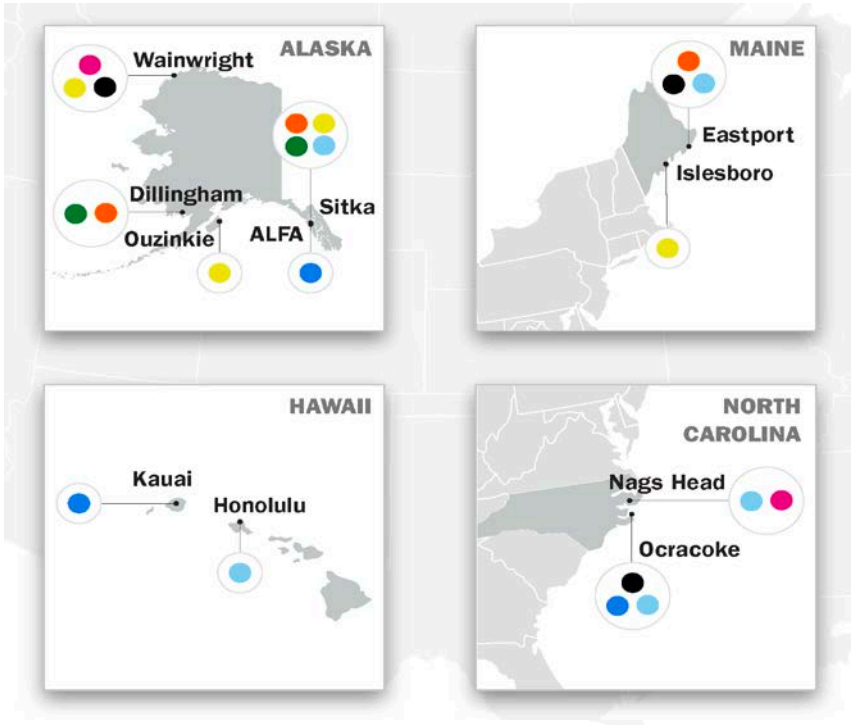


ETIPP Communities 2021 and 2022

ETIPP Communities 2021



ETIPP Communities 2021



TECHNICAL ASSISTANCE AREAS

- Buildings (2)
- Microgrids (5)
- Rates/Tariffs (2)
- Renewable Energy Potential (4)
- Storage (3)
- Transportation (3)
- Hydropower (3)