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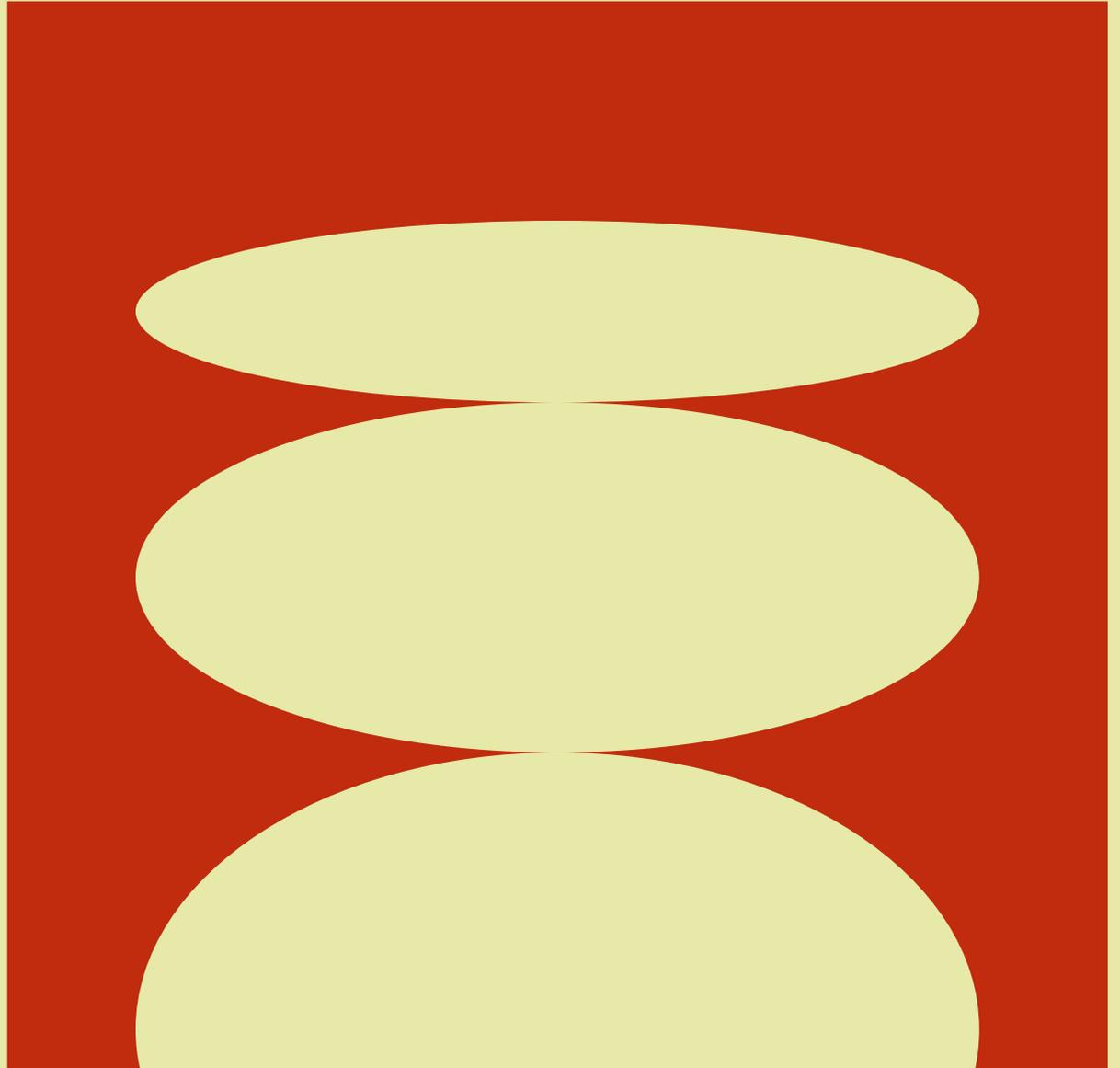
Natalie Kiley-Bergen – Utility Collaborative Manager

Nathan Hill – Borough Manager

Lake and Peninsula Utility Collaborative

03 March 2026

Alaska Energy Training Group





**Lake and Peninsula
Utility Collaborative**

- ❖ 10+ years in the making
- ❖ Compounding Funding – DOE Grid Resilience “40101(d)”
- ❖ Housed at Borough & Led by communities

Background

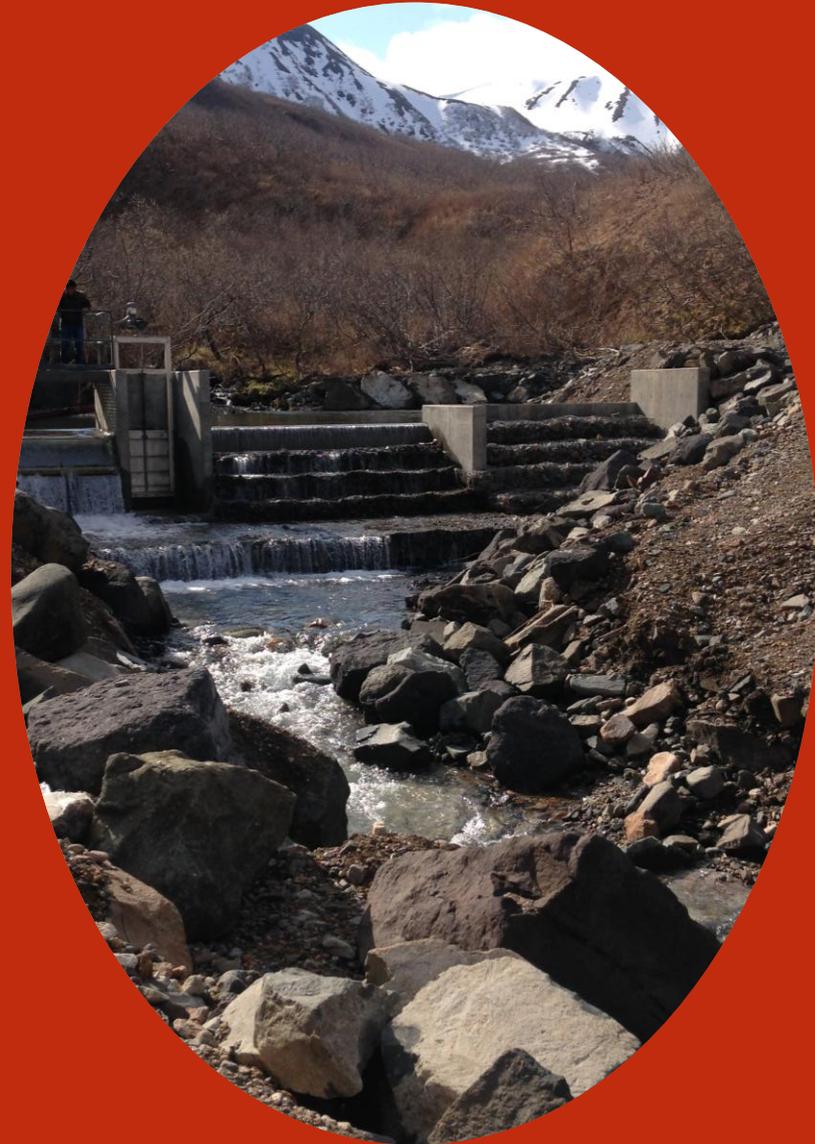
Lake and Peninsula Borough

- Founded on education
- Bottom-up government
- ~1,500 people
- 16 communities
- 13 utilities
 - 3 interconnected communities
 - 2 communities without utilities



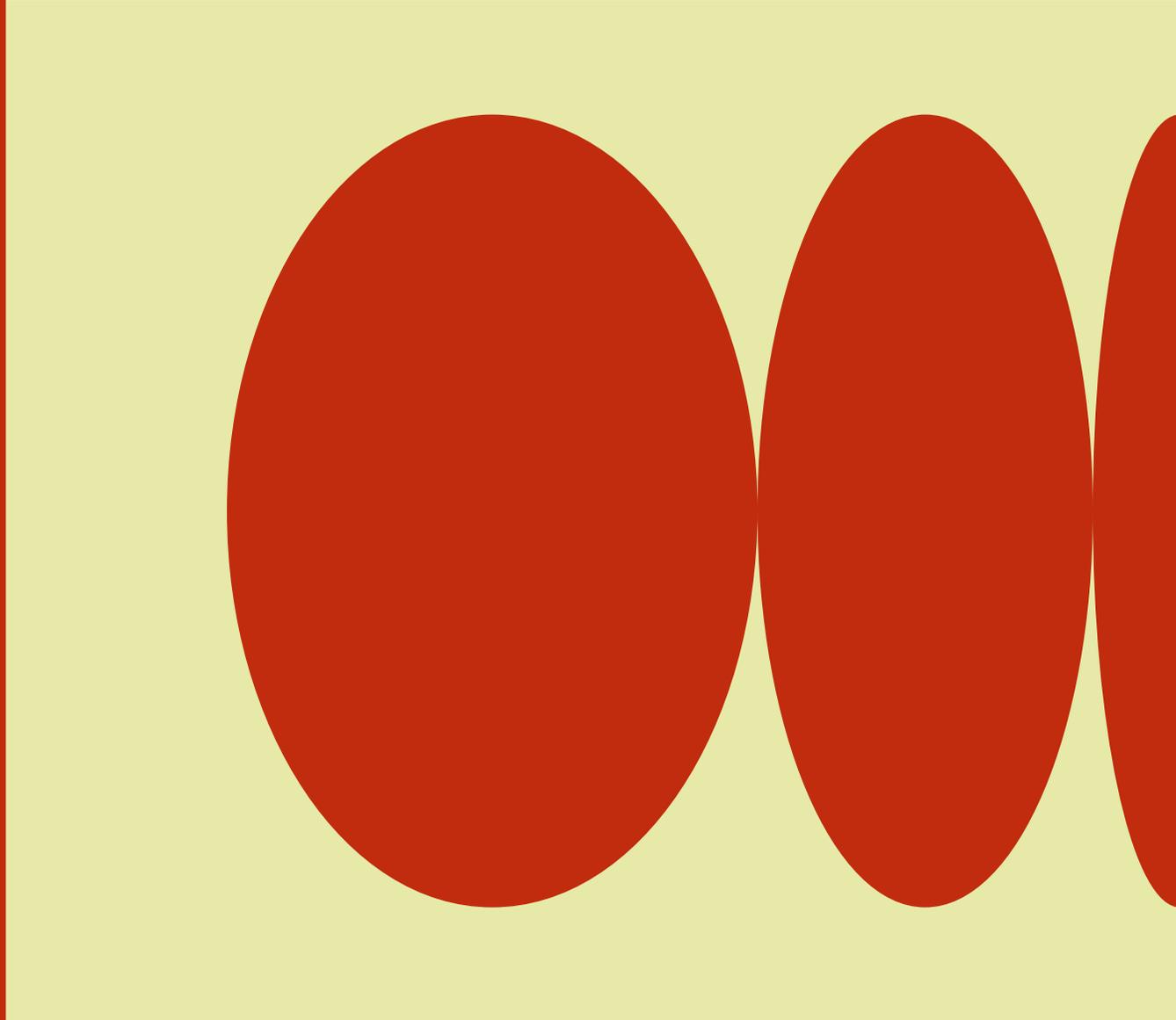
Key Partners

- ❖ Denali Commission
- ❖ Borough communities and utilities
- ❖ Bristol Bay Native Corporation
- ❖ Alaska Venture Fund
- ❖ DeerStone Consulting
- ❖ BIA Tribal Energy Development Capacity Grant
- ❖ Igiugig Village Council



Overarching Collaborative Goals

- 1. Improve system reliability**
- 2. Lower operational and fuel costs**
- 3. Minimize emergency repairs**
- 4. Facilitate renewable energy integration**
- 5. Paradigm shift towards system longevity**



Utility Collaborative Priorities

- ❖ Maximize impact of grid resilience formula funding (40101d)
- ❖ Support PCE reporting
- ❖ Establish shared maintenance and service contracts
- ❖ Deepen relationships between utilities
- ❖ Assist agency communications and coordination
- ❖ Expand technical understanding of each community's power system
- ❖ Improve consistency in data management and institutional knowledge for utilities
- ❖ Provide a reliable point of contact as utility issues and opportunities emerge

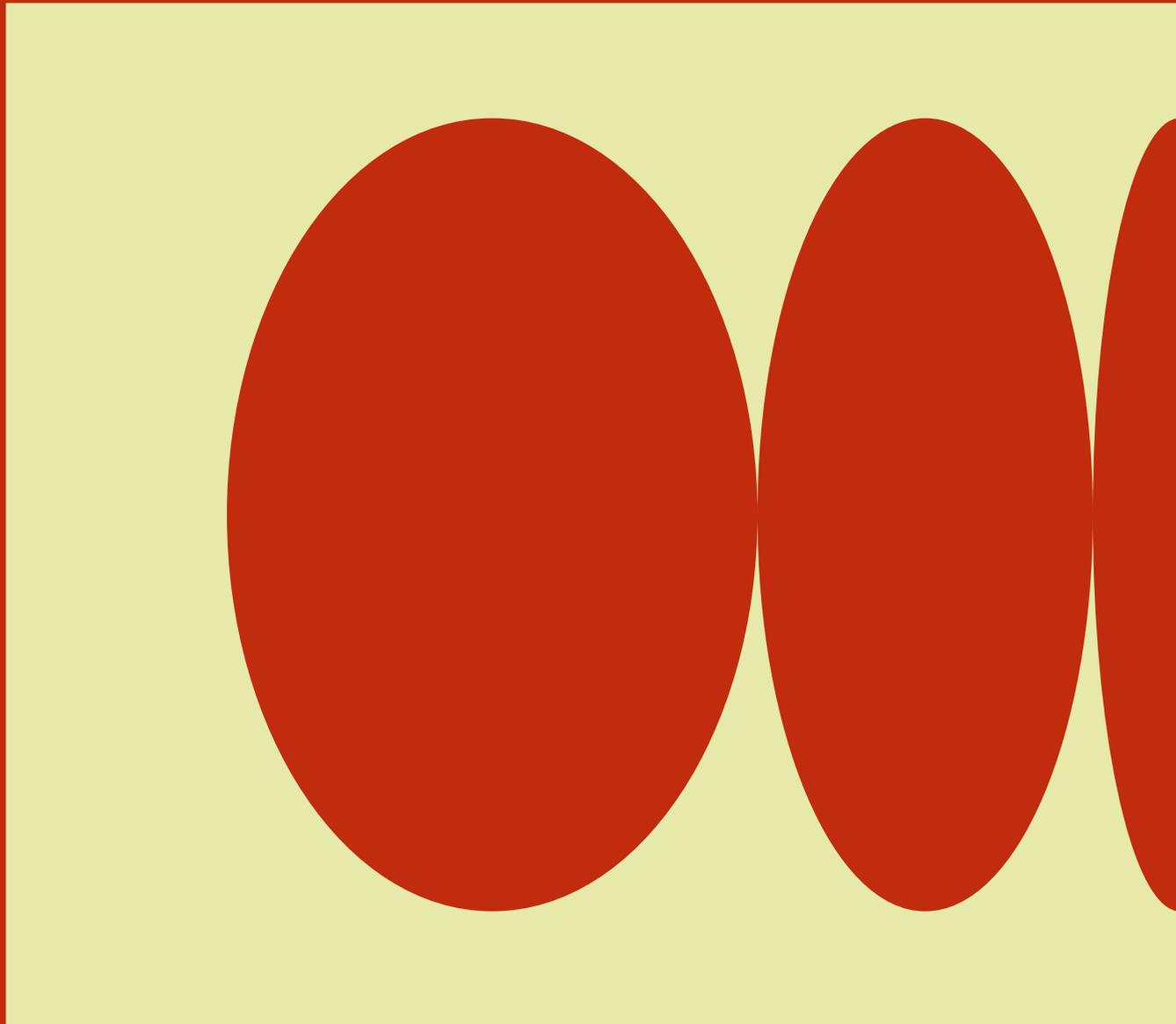
Utility Collaborative Challenges

- ❖ Funding availability and limitations
- ❖ Balance of risk and trust for new initiatives
- ❖ Demands of administrative capacity
- ❖ Emergency response vs long-term planning
- ❖ Rate structures and rate-payer base
- ❖ Fuel delivery obstacles
- ❖ Parallel priorities (e.g., education, fisheries, transportation, infrastructure)

Lake and Peninsula Utilities

Utility	Electric Rate per kwh	Average Fuel Price 2024	Renewables
City of Chignik	\$.64	\$3.59	Hydro - funded
Chignik Lagoon Power Utility	\$.81	\$4.73	Hydro – 50%
Chignik Lake Utility	\$.70	\$3.74	None
Egegik Light and Power	\$.65	\$3.30	None
Igiugig Electric Utility	\$.92	\$9.76	Hydrokinetic, solar funded
INNEC (Iliamna, Newhalen, Nondalton)	\$.67	\$4.14	Hydro – 99%
Kokhanok Village Council	\$.97	\$6.45	Wind – 15%, Solar - funded
Levelock Electric Cooperative	\$1.35	\$4.75	Renewables TBD - funded
Pedro Bay Village Council	\$.82	\$6.45	None, seeking Hydro funding
Pilot Point Electrical	\$.60	\$5.07	None – wind in development
Port Heiden Utilities	\$.65	\$4.08	Wind/Solar – funded, Hydro feasibility
Tanalian Electric Coop	\$.84	\$5.92	None
<i>Railbelt</i>	<i>\$.23 (no PCE)</i>	<i>\$3.60 (retail)</i>	<i>Some</i>

**40101(d) Grid
Resiliency Funding**

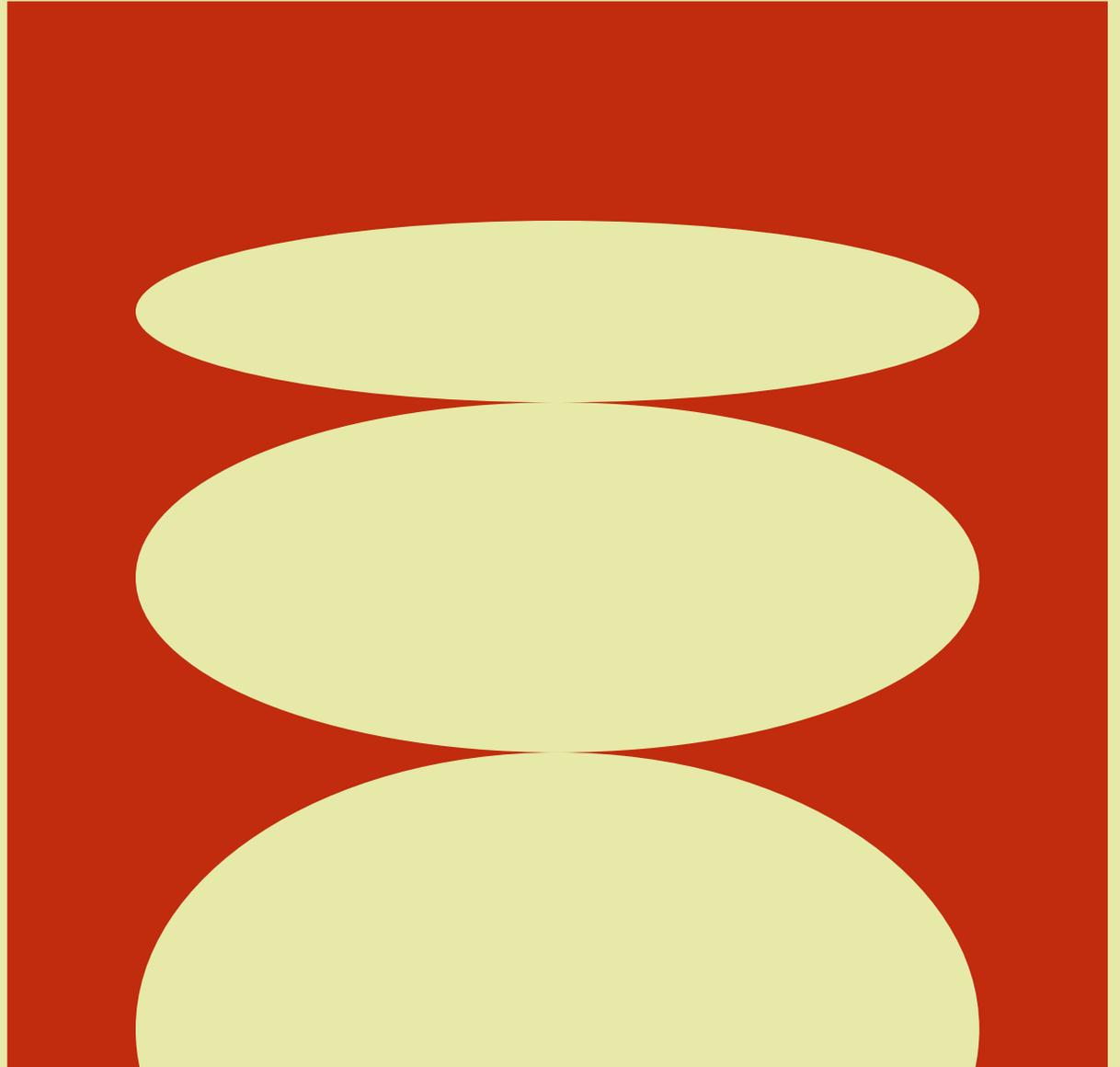


\$4 million

Allocated through the 40101(d) Grid Resilience Program through 22 applicants

40101(d) Program

- \$4 million allocated
 - Igiugig Village Consortium – 14 communities, 18 applicants, 11 utilities, 2 multi-community corporations
 - 2 smaller consortiums and 3 individual applicants
- High-cost match – nearly 50%
- In project development stage
 - Individual utility projects and multi-utility projects
 - Maximizing economies of scale
 - Stacking eligible match to reduce cost burden



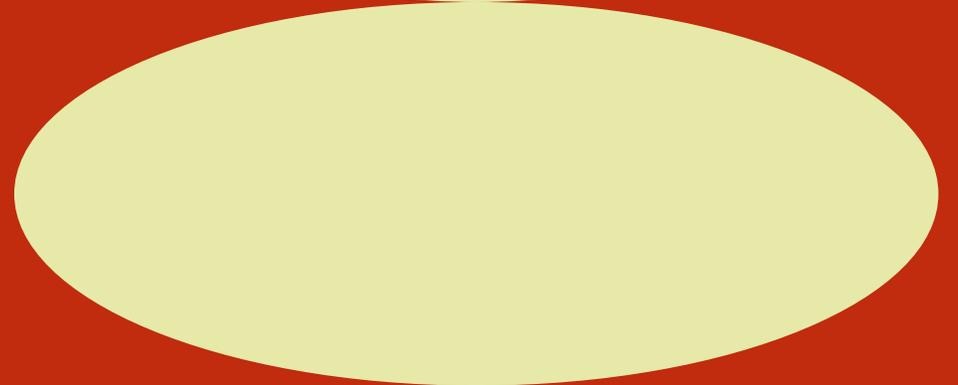
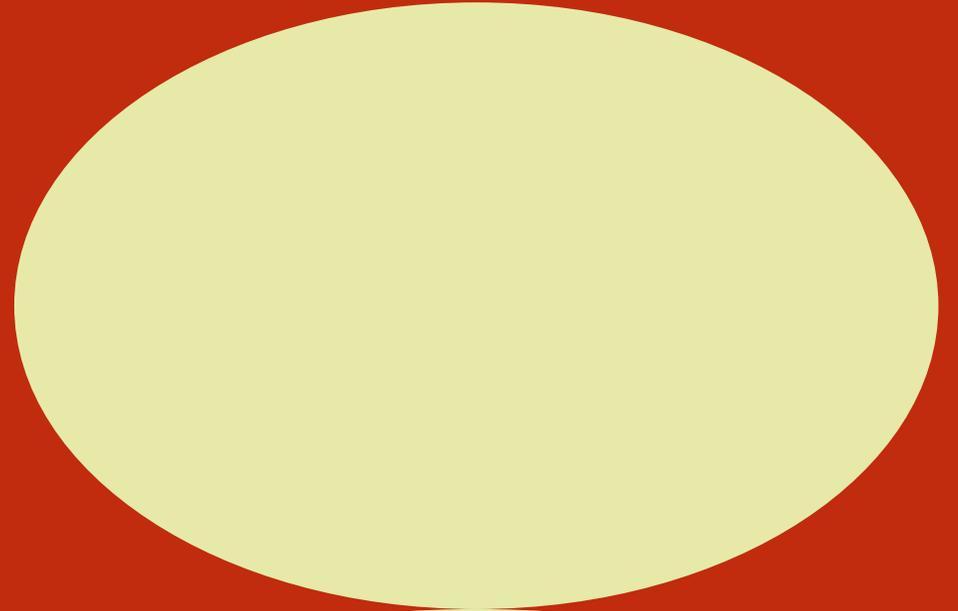
Eligible Projects

- ❖ Microgrid Integration & Battery Storage
- ❖ Generator Upgrades (not new construction)
- ❖ Undergrounding or Relocation of Power Lines
- ❖ Fire Prevention and Fuel Management
- ❖ Smart Grid & Resilience Equipment
- ❖ Fuel Storage Upgrades
- ❖ Utility Workforce Training & Maintenance Contracts
- ❖ Building Management or SCADA Enhancements



Best Practices and Emerging Strategies

- ❖ Learning from other regions
(NWAB, TCC, ARUC/ANTHC, AVEC)
- ❖ Pooling program expertise on 40101(d)
- ❖ Funding and match opportunities
- ❖ Contractors and other expertise



Long Term Success

- ❖ Stretch current funding as far as possible
- ❖ Stack eligible match and other sources of funding, technician access, and available equipment
- ❖ Establish cost reductions and savings through economies of scale, PCE support, grant support, and centralizing contracting
- ❖ Self-sustaining through utility/community participation and funding opportunities





Q & A

Natalie Kiley-Bergen
utilities@lakeandpen.com