

# Washington State Grid Modernization

Program Update

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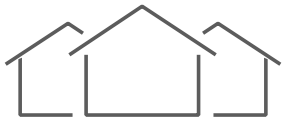
OCTOBER 26, 2021



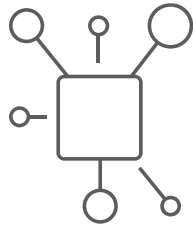
Washington State  
Department of  
**Commerce**

# We strengthen communities

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**HOUSING  
HOMELESSNESS**



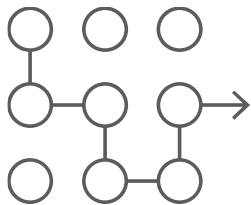
**INFRASTRUCTURE**



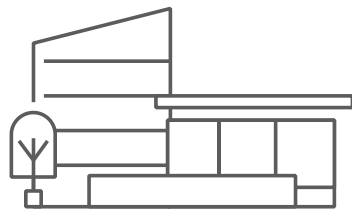
**BUSINESS  
ASSISTANCE**



**ENERGY**



**PLANNING**



**COMMUNITY FACILITIES**



**CRIME VICTIMS &  
PUBLIC SAFETY**

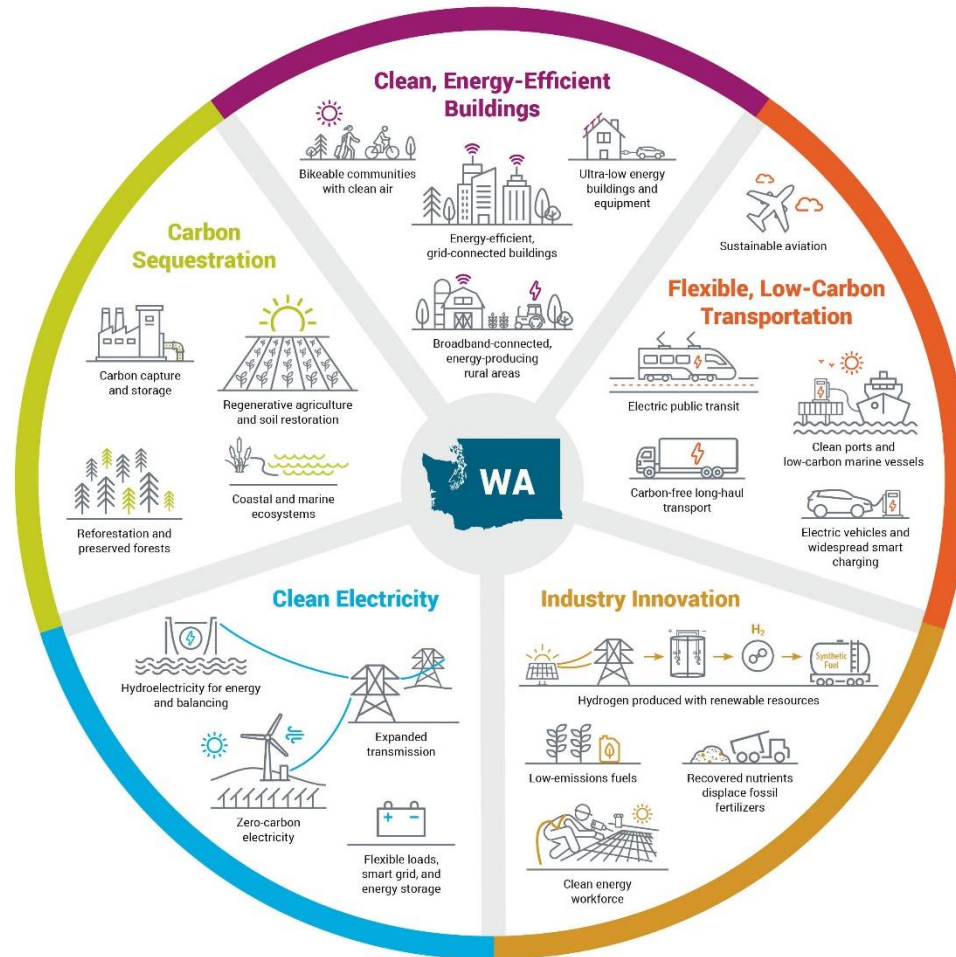


**COMMUNITY  
SERVICES**

# Clean Energy Fund & Energy Transformation

Working to transform and modernize the energy sector.

We're opening new markets for clean energy and low-carbon technology.

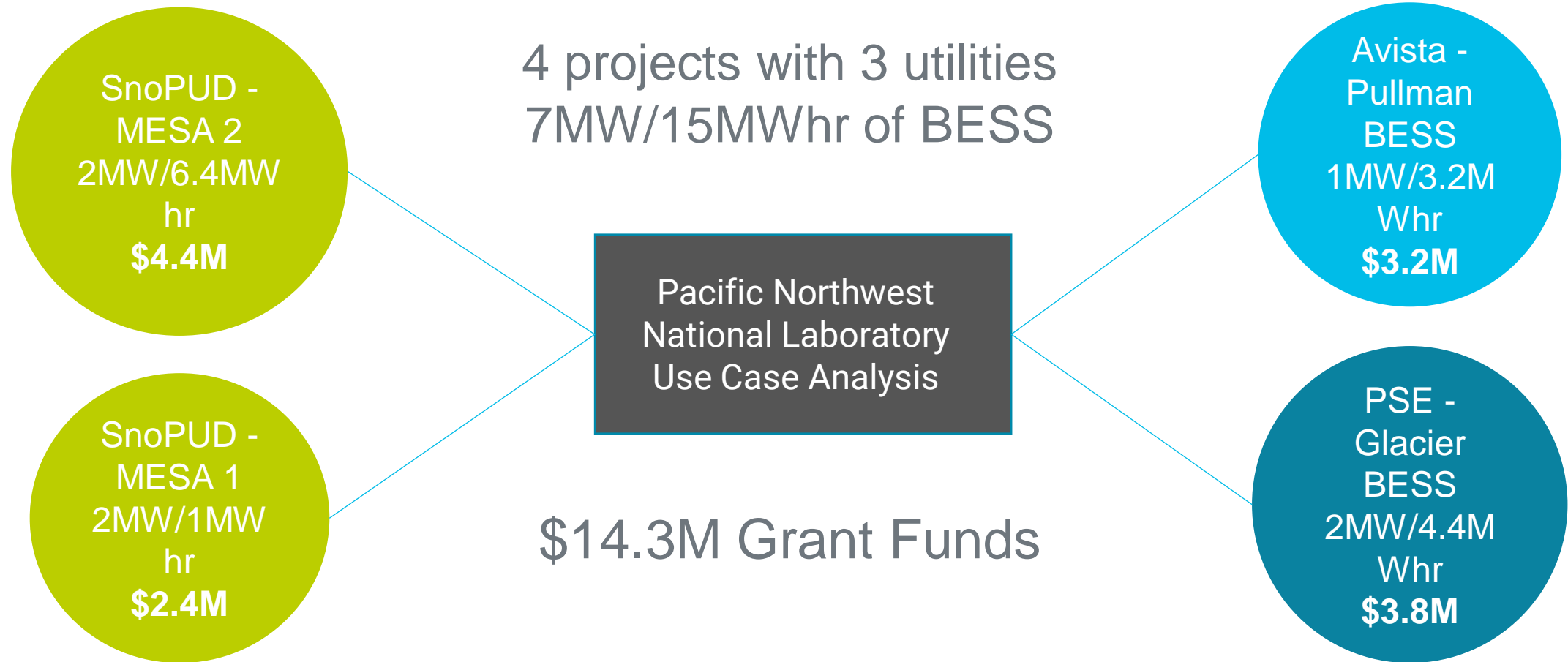


# CEF1 Smart Grid Grants to Utilities

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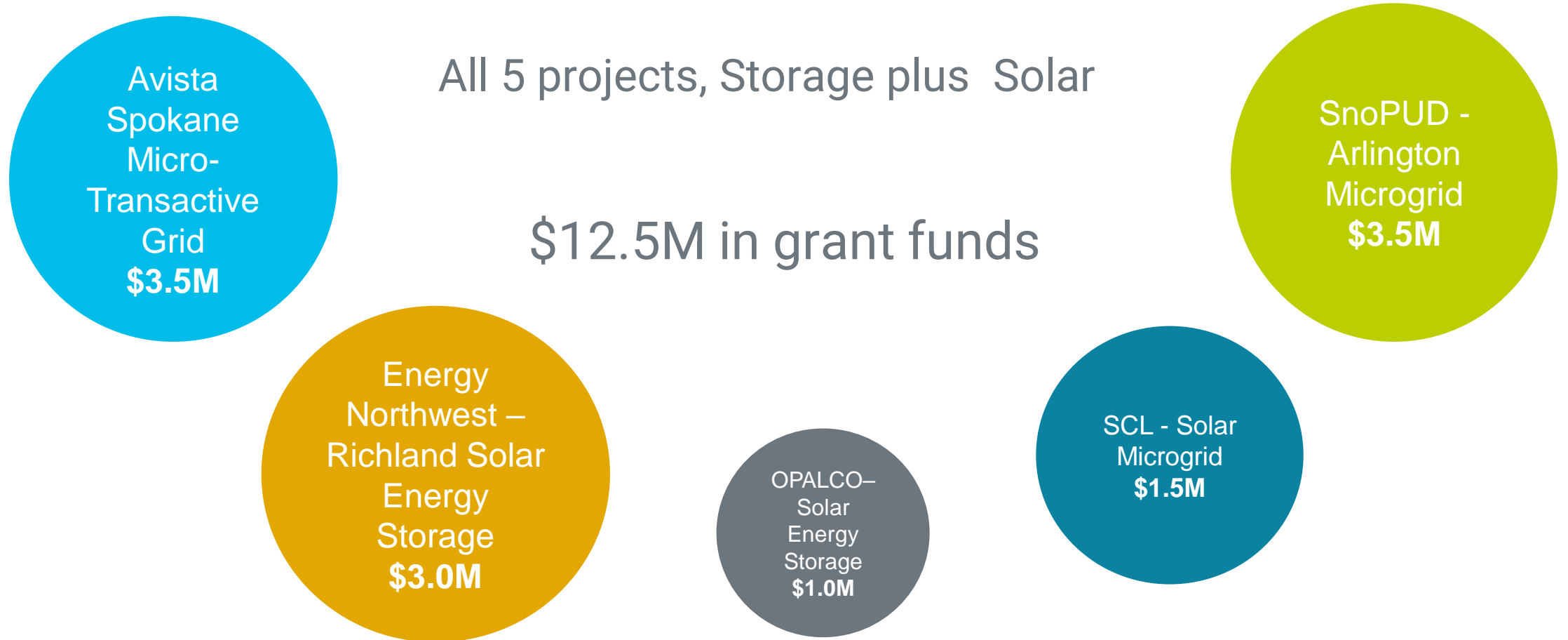
- Grants to competitively selected consortium of utilities, utility vendors and researchers
- Consortium must match \$15 million state investment
- Projects will
  - Integrate intermittent renewables through energy storage and information technology
  - Dispatch energy storage resources from utility control rooms
  - Use thermal properties of buildings and/or district energy systems to store energy
  - Improve the reliability and reduce the costs of intermittent or distributed energy
- Commerce formed Advisory Panel of subject matter experts

# CEF1 Smart Grid Funding



# CEF2 Grid Modernization

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# CEF3 – Grid Modernization

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- **Observations/Trends**

- More diverse range of energy storage technologies being combined with distributed generation assets
- Increased customer interest in DERs
- Several microgrids for resilience and transactive energy
- Fewer use cases - more focused on longer duration ES
- Four submittals evaluated. Three advanced into contract in 2019.
- Contracts with Avista, OPALCO and PSE for full project development from design through implementation. Approximately \$7M in grants.

# CEF and ECPAC

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- Energy and Climate Policy Advisory Committee (ECPAC) created in 2020 to review CEF program needs
- Higher priority for low income, disproportionately impacted and disadvantaged groups
- Stakeholder engagement – Grid Modernization, Electrification of Transportation and L.I. Solar grouped together
- Recommendations



# CEF4 - GRID2021

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- **Observations/Trends**

- Increased diverse range of electrochemical energy storage technologies being combined with DER, DR, ETS, CHP, Thermal ES, Biomass, Tidal and micro-hydro.
- Increased community, agency and Tribal partnerships with utilities.
- Several (9+) microgrids for resilience. Mostly solar plus storage.
- Several “ecodistricts” and electric fleet or ferry integrations
- Several smaller community resilience based combinations.
- 20+ submittals evaluated & ranked. 18 selected for awards. \$3.9 million in total awards. All between \$100,000 to \$500,000 for early stage efforts.
- Program shifts from ECPAC recommendations are moving toward the desired results.

# CEF5 – 2022 Estimated

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- **Future Directions**

- Additional ECPAC recommendations will be incorporated.
- Approximately \$11.4 million is expected to be available after appropriations under CEF5 (2021-2022 Budget)
- In addition to electric utilities, community organizations, federally recognized tribal governments, and local governments, would be eligible to apply provided they work with a utility partner to submit.
- Budget proviso language has a stronger emphasis on community resilience and community partnerships, CETA requirements for utilities, and benefits to overburdened communities, and
- There is a requirement that all CEF5 programs apply an equity and environmental justice lens to program development and project selection.

For additional program information please contact:

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<https://www.commerce.wa.gov/growing-the-economy/energy/clean-energy-fund/energy-grid-modernization/>

## Thank you

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