



Department of Commerce

Clean Energy Funds: 2013-17

Overview of Grid Modernization Programs

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We strengthen communities

The Department of Commerce touches every aspect of community and economic development. We work with local governments, businesses and civic leaders to strengthen communities so all residents may thrive and prosper.



Planning



Infrastructure



Community
Facilities



Housing



Safety /
Crime Victims



Business
Assistance

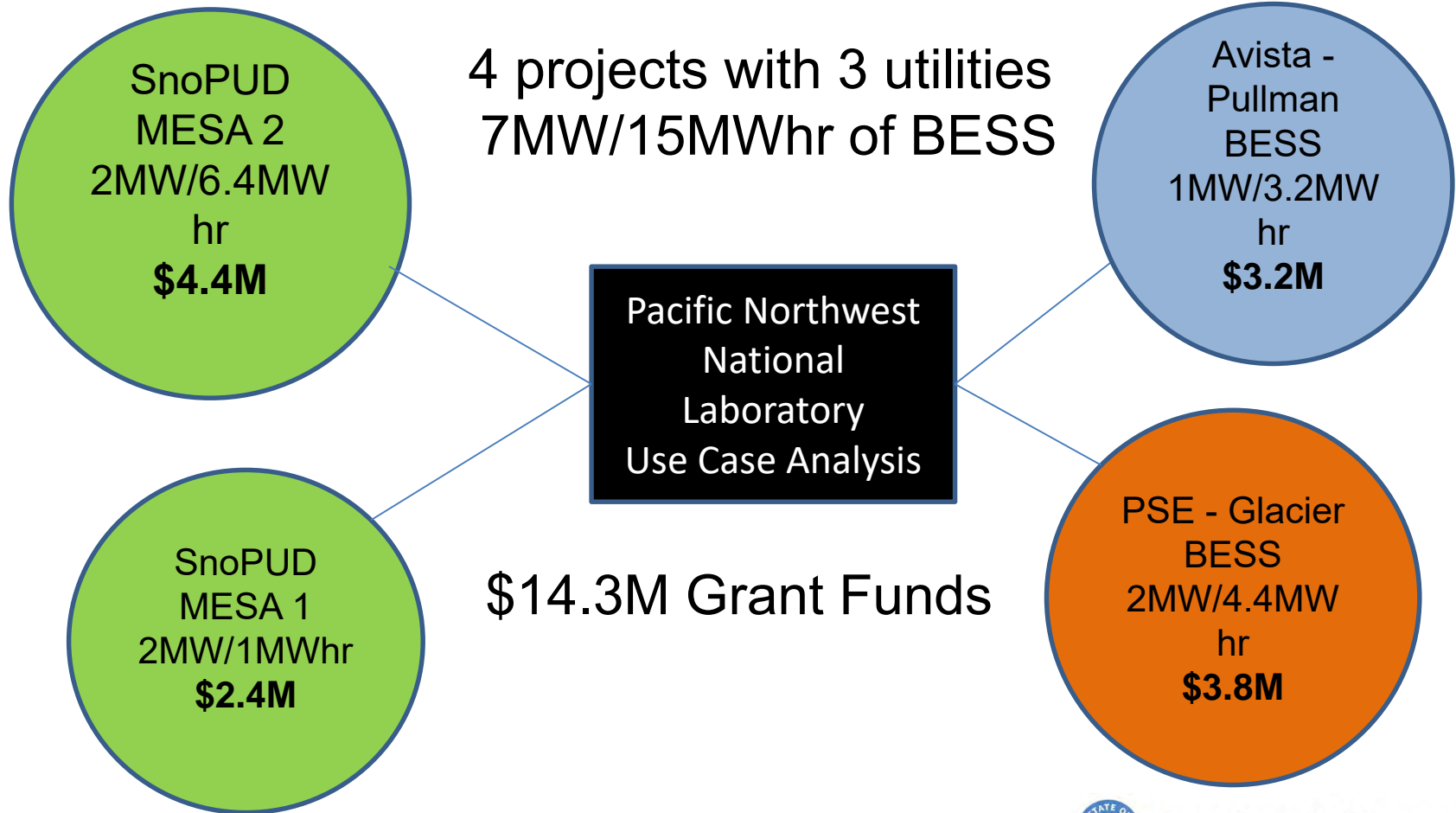


CEF1 Grid Modernization Grants to Utilities

- **Grants to competitively selected consortium of utilities, utility vendors and researchers**
- **Consortium must match or exceed state investment**
- **Consortium 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
- **Form Experts Panel to review and rank proposals**



CEF1 Grid Modernization Projects



CEF2 Grid Modernization Grants to Utilities

- **Similar to CEF1 target audience and emphasis on advancing new technology with addition of:**
 - **New Utility Advisory Group to advise on program framework**
 - **Increased emphasis on projects with resiliency benefits**
 - **Two stage process - Conceptual/feedback & full application**



CEF2 Grid Modernization Projects

5 projects, Storage + Solar

Avista
Spokane
Micro-
Transactive
Grid
\$3.5M

SnoPUD -
Arlington
Microgrid
\$3.5M

\$12.5M in grant funds

Energy
Northwest –
Richland Solar
Energy
Storage
\$3.0M

OPALCO–
Solar
Energy
Storage
\$1.0M

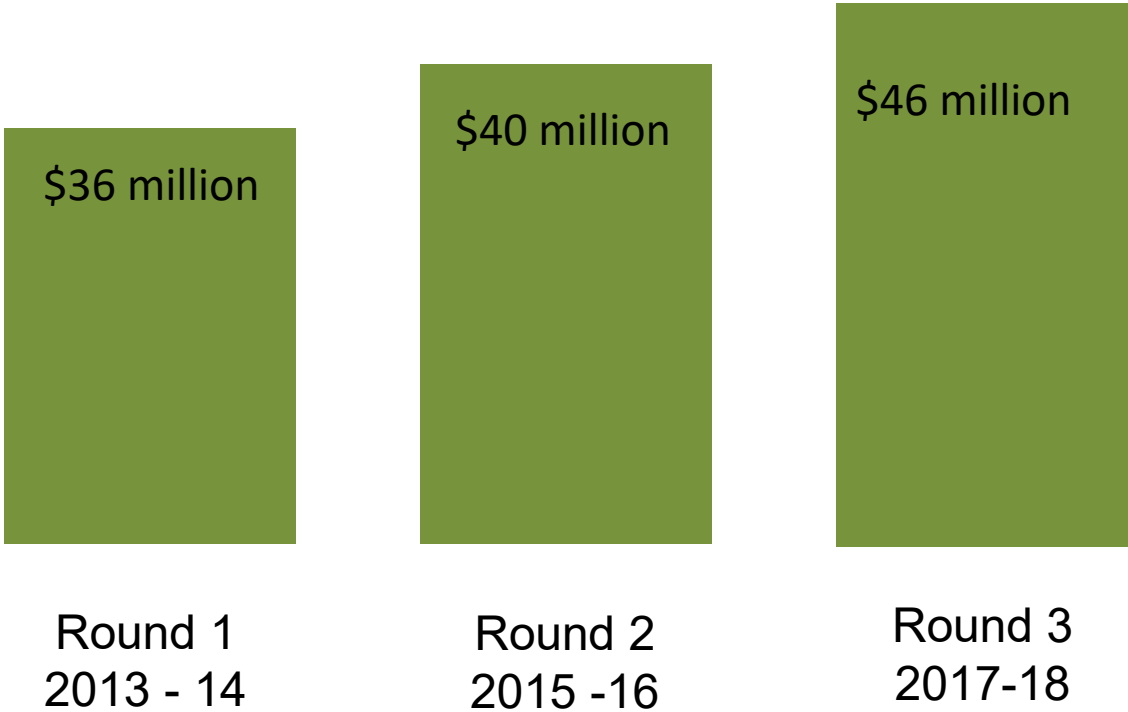
SCL - Solar
Microgrid
\$1.5M



What's next for the Clean Energy Fund?



Three rounds of funding



Clean Energy Fund 3 - Competitive Programs

- **Matching Program for Energy Research and Development - \$8.6 million**
- **Grid Modernization Program - \$11 million**
- **Transportation Electrification - \$11 million**
- **Solar - \$4 million**

Next Step: Program Advisory Groups - 2nd Qtr 2018



CEF3 Grid Modernization Grants to Utilities

Similar to CEF1 & CEF2 target audience, emphasis and application process. Focus areas:

- **Advancement of clean and renewable energy technologies, and transmission and distribution control systems;**
- **Supporting integration of renewable energy sources, deployment of distributed energy resources and sustainable microgrids; and**
- **Increasing utility customer options for energy sources, energy efficiency, energy equipment and utility services.**





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