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G2: 1.2.a and 2.1.a Supplemental Report Clean Technology Sector

Clean Technology

Industry Impact







- Over 57,000 direct employees
- \$17.1 billion in economic activity across
 WA
- In 2014, Gross Business Income grew 6% to over \$17B.
- There is at least one firm involved in the Clean Tech sector in every county in Washington State.



Clean Technology







What have I done:

- Visited companies, institutions and stakeholder groups in 13 of 39 WA counties.
- Worked with Clean Tech Alliance (CTA) and clean tech companies to help secure funding for the Clean Energy Fund.
- Continually working to bring the disparate industries and stakeholder groups together to help foster the notion of a clean tech sector in this state.
- Presented at numerous conferences, industry events and stakeholder gatherings:
 - 10th Annual Energy and Construction Best Practices Summit
 - Clean Tech Alliance multiple events
 - DOE Accelerating Energy Productivity Conference
 - · WSU Energy Systems Innovation Center's annual conference
 - Testimony in front of house and senate committees
 - · Many more



Smart Grid Grants to Utilities – CEF1 (\$15M)

Avista was awarded a \$3.2-million grant from the state to field test a 1-MW, 3.2-MWhr UniEnergy vanadium-flow battery assembly in a three-year demonstration project at a substation in Pullman, Wash. Total project cost, as proposed, exceeds \$7.6 million.

Puget Sound Energy was awarded a \$3.8 million grant from the state to help deploy a 2-MW, 4.4-MWhr lithium-ion/phosphate battery assembly at a substation in Glacier, WA. Total project cost, as proposed, exceeds \$12 million.

Snohomish PUD was awarded \$7.3 million in state grants for multiple demonstration projects. The PUD has been working with Seattle-based 1Energy Systems for the past two years to implement Modular Energy Storage Architecture, a set of nonproprietary design and connectivity standards that provide a scalable approach for energy storage control system integration and optimization. Total project cost, as proposed, exceeds \$23.4 million.

- The MESA 1 project will deploy two 1-MW, 500-MWhr lithium-ion battery based systems within
 one substation. These two large-scale lithium-ion battery assemblies, one built by LG Chem and a
 second by Mitsubishi-GS Yuasa, will each use a Parker Hannifin Power Conversion System. The
 battery assemblies were dedicated on January 15, 2015.
- The MESA 2 project, at a different substation, will deploy multiple advanced vanadium-flow battery assemblies, built by UniEnergy Technologies, having total combined ratings of 2MW/6.4MWhr.

Smart Grid Grants to Utilities - \$13M

- Integration of renewables through energy storage and information technology
- Improve reliability
- Reduce the costs of intermittent renewable or distributed energy









Energy Revolving Loan Fund – \$10M

- Finance proven efficiency and renewable technologies that currently lack access to capital.
- Residential and commercial sectors.
- Must be granted to non-profit lending institutions.



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Energy Revolving Loan Fund – CEF1 (\$15M)

Craft3 - \$8.7M for commercial lending and \$2.9M for residential lending

Craft3 is a nonprofit CDFI lender serving the rural and urban low-income communities of Oregon and Washington. Craft3 is administering two clean energy loan programs: a commercial and a residential lending program. www.craft3.org/cpw

Puget Sound Cooperative Credit Union - \$2.9 for residential lending

Puget Sound Cooperative Credit Union has offered financial services to the Puget Sound region since 1934. They are a not-for-profit banking alternative, owned by their members. PSCCU is administering a residential clean energy lending program. http://www.psccu.org/about.php.

Anticipate leverage of more than \$100 million for residential loans, and \$60 million on the commercial loans. To date, more than \$3 million in residential loans have been made and 1,185 job hours have been created. The projects completed with the loans include residential and commercial energy retrofits, residential- and commercial-scale solar installations, anaerobic digesters to treat dairy and organic waste, and combined heat and power projects using woody biomass as a fuel source.











Manufacturing Credit Enhancement - \$6.6M

- New for FY15/17 Clean Energy Fund.
- Provide credit enhancement facilities to private lenders in order to incentivize manufacturing of clean energy technologies in the state.
- Focused on advanced solar and other renewable energy technologies.



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