

The following 13 projects were chosen from among 47 applicants for funding:

#### AB BioEnergy LLC

Contact: Jess Asla – 208-338-2500

Category: Waste-to-Energy

Project: Biodiesel project

Award: \$2,000,000 (\$1,400,000 loan / \$600,000 grant)

**(Yakima County)** Captures waste streams from their rendering facility, area food processors and restaurants to produce biofuel. Creates 16 new jobs, retains 2 jobs in Toppenish. Increases supply of in-state produced biodiesel from local feedstocks in Eastern Washington.

#### AltAir Fuels LLC

Applicant: Tom Todaro – 206-336-5570

Category: Clean Energy Innovation

Project: Advanced biofuels refinery

Award: \$2,000,000 (grant)

**(Office in King County, production in Skagit County, and feedstock from Eastern Washington)** Alt Air Fuels LLC plans to produce biofuels for airplanes from Camelina oil. The production will be at the Tesoro refinery in Anacortes and connect into the main northwest fuel pipeline. This project will create 350 engineering and construction jobs, 20 permanent jobs in operations and maintenance, and 107 permanent and seasonal agricultural jobs.

#### Borgford Bioenergy

Applicant: Dale Borgford – 509-684-8776

Category: Waste-to-Energy

Project: Kulzer BioEnergy Park

Award: \$771,406 (\$539,984 loan / \$231,422 grant)

**(Stevens County)** Gasification of wood waste for biopower. Also produces soil amendment (“biochar”) to enhance wheat production in northeast counties. Creates or retains a total 27 jobs.

#### CAMPS

Applicant: Thomas McLaughlin – 253-856-9595 x5301

Category: Clean Energy Innovation

Project: Supply and manufacturing retool

Award: \$1,000,000 (grant)

**(Office in King County, support for members in other counties)** The Center for Advanced Manufacturing Puget Sound (CAMPS) is an organization of traditional suppliers to the aerospace, marine, and transportation industries. This project will provide support to enable members to collaboratively retool and diversify to advance innovation in the wind and solar markets. This will increase the local production of parts. This project will provide an estimated 212 jobs during the 3-year life of the contract.

### Clark Public Utilities

Applicant: Larry Blaufus – 360-992-3579  
Category: Commercial Energy Efficiency  
Project: WaferTech free cooling for process cooling water  
Award: \$402,000 (\$282,000 loan / \$120,000 grant)

**(Clark County)** Project will install a new process water cooling system that incorporates evaporative cooling via newly installed cooling towers. Project will cut energy consumption for process water cooling in half, resulting in more than 5 million kWh per year savings and estimated \$250,000 per year. This will be the single largest energy conservation project in Clark County. 900 jobs retained at WaferTech.

### Demand Energy Networks

Applicant: Randi Neilson – 509-863-8044  
Category: Clean Energy Innovation  
Project: Distributed electricity storage devices and network management software  
Award: \$1,500,000 (grant)

**(Spokane County)** Demand Energy Networks has developed electricity storage devices that are monitored, managed and controlled by network management software. The project will accelerate commercialization and deployment of the storage units and commercialize the software for large scale applications. 93 jobs created or retained.

### FPE Renewables LLC

Applicant: Eric Powell – 360- 410-2002  
Category: Waste-to-Energy  
Project: Vander Haak anaerobic digester  
Award: \$320,000 (\$224,000 loan / \$96,000 grant)

**(Whatcom County)** Enhances the capacity and performance of an existing digester, doubling power output to provide clean energy to an additional 200 homes. Other partners include Northwest Farm Credit Services, USDA Rural Development and WSU. 3 new jobs created.

### Gen-X Energy Group Inc

Applicant: John Forrest – 509-547-2447  
Category: Clean Energy Innovation  
Project: Phoenix advanced biofuels refinery project  
Award: \$720,000 (grant)

**(Franklin County)** Supports construction of the first unit of a biodiesel refinery in Richland. The grant will fund the manufacture and installation of a new technology biodiesel module. The new technology significantly reduces costs through process simplification and heat integration; simplifies permitting and reduces emissions. Also allows access to the technical-grade glycerol market for the refinery byproduct (glycerol). Creates 10 permanent jobs.

## LeMay Enterprises

Applicant: Dan Schooler – 253-537-8687  
Category: Transportation  
Project: Natural gas refuse truck deployment  
Award: \$931,422 (\$700,000 loan / \$231,422 grant)

**(Pierce County)** LeMay will purchase new diesel waste collection trucks and convert them to compressed natural gas, and install a compressed natural gas refueling station for their fleet. Funding will help cover the incremental cost of truck conversions and help with part of the refueling station cost. Project will enable LeMay to take first step in their strategy of converting most of their 100-truck fleet to compressed natural gas. Project could save about 1 million gallons of petroleum diesel over the lifetime of 10 trucks, while achieving significant reductions in greenhouse gas emissions. Supports 35 jobs during the conversion phase and retain 18 permanent jobs.

## Nippon Paper Industries

Applicant: Harold Norlund – 360-457-4474  
Category: Industrial Energy Efficiency  
Project: Port Angeles co-generation biomass boiler  
Award: \$2,000,000 (\$1,400,000 loan / \$600,000 grant)

**(Clallam County)** This project replaces an existing process steam boiler with a new biomass boiler and adds a 20 MW condensing turbine-generator. The new generator is expected to operate at 90% of capacity 355 days a year. It allows increased use of forest byproducts as fuel qualifying the project as a biomass combined heat and power generator under most western renewable portfolio standards. The Washington State Department of Natural Resources is expected to be a major supplier of forest waste products for the new plant. The addition of generation capacity in this part of the state will provide an additional resource in a capacity constrained portion of the grid. 234 jobs retained at the mill and 10 jobs added during the conversion phase.

## Nucor Steel

Applicant: Bart Kale – 206-933-2222  
Category: Industrial Energy Efficiency  
Project: Organic Rankine Cycle Unit  
Award: \$2,000,000 (\$1,400,000 loan / \$600,000 grant)

**(King County)** Nucor specializes in the reclamation of scrap metal and operates a foundry in West Seattle. The Seattle plant uses an electric arc furnace to melt scrap steel and produce new steel. Nucor will install an off gas heat recovery system that will use an organic Rankine cycle generator to generate 2.8 MW of power and reduce 3,059 metric tons of carbon dioxide. This will be the first of its kind installation in a U.S. steel plant, providing a good example for this industry and many other industries with similar waste heat profiles. 22 jobs created in the implementation phase and 325 jobs retained at Nucor Steel.

### Ponderay Newsprint Inc

Applicant: Greg Vaughn – 509-445-2337

Category: Industrial Energy Efficiency

Project: Voltage optimization system

Award: \$1,394,094 (\$975,866 loan / \$418,228 grant)

**(Pend Oreille County)** Ponderay Newsprint makes paper for more than 100 newspapers, including publications of McClatchy Co. and Gannett Co. Inc., which are part owners.

This project will install a voltage optimization and control system for the plants large motor system. Ponderay estimates a 5% increase in its synchronous motor efficiency which will result in energy savings of 25,663 MWh every year - the equivalent of providing electricity for approximately 2,000 homes annually. The energy savings at the mill will help the operation to remain competitive in the newsprint industry and retain 184 jobs.

### Rainier Biogas LLC

Applicant: James Ritter – 206-445-5279

Category: Waste-to-Energy

Project: Anaerobic digester

Award: \$1,392,500 (\$974,750 loan / \$417,750 grant)

**(King County)** This project will install an anaerobic digester that will process dairy manure from over 1,000 cows at three dairy farms on Enumclaw Plateau. The digester will produce 3,582 MWh biopower, enough to serve over 300 area homes. 4 jobs created during implementation phase, and 4 permanent jobs. This project will provide a model for addressing long-standing King County concerns about water quality in east county watersheds.