



**ODF Biomass Program  
Statewide Wood Energy Team Grant Awards**

2015 Grant Awards

- **Walking Point Farms, \$22,000**  
Walking Point Farms: feasibility of producing pellets, heat & biochar from forest residuals. Project to be co-located with Western Oregon Wood Products pellet facility in Columbia City. Purpose of the award is to assess the feasibility of co-producing pellets, heat and biochar from forest residues. Grant awards will offset the cost of completing technical and economic assessments to understand the integration of gasification technology into existing facility.  
Contact: Howard Boyte--howard@walkingpointfarms.com
  
- **Forest Energy Group, \$30,000**  
Forest Energy Group: Phase II feasibility study & economic modeling for integrated juniper facility in Klamath Basin. Product mix includes densified juniper fire log as well as dimensional products. Grant award will focus on pre-processing procedures, equipment specifications, financial modeling, and business plan development.  
Contact: Jack LeRoy--jackleroy1@aol.com
  
- **Silver Sage Fisheries Inc., \$25,000**  
Silver Sage Fisheries Inc.: biomass thermal design & engineering at food processing facility in Hines, OR. Silver Sage's new fish processing facility in Hines will use biomass-fired medium-pressure steam boilers to provide the process heat to pasteurize, cook, and dry fish fertilizer. The proposed processing plan is expected to use approximately 2,000-4,000 green tons of forestry residuals/hog fuel and support four to six full time jobs over its six month production season.  
Contact: Andrew Haden-- andrew@wisewood.us

April 03, 2015

**Cohesive Wildfire Strategy Grants**

- **Ochoco Lumber Co—\$25,000, Torrefaction Feasibility Study at the Malheur Lumber Mill in John Day.** Ochoco Lumber seeks to explore the commercial viability of a torrefied wood facility in Grant County. The potential facility would utilize up to 30,000 tons of material from resulting from the 10-year Malheur Forest Stewardship Contract. Awarded funds will be used to assess the economic opportunity of a torrefaction facility in Grant County. Torrefaction is a thermal process used to produce high-grade solid biofuels from woody biomass. The product is a stable, homogeneous, high quality biofuel with greater energy density and calorific value than the original feedstock, improving logistics, handling and storage, and opening up a wide range of potential uses.
  
- **Wallowa Resource Community Solutions Inc.—\$30,000, City of Enterprise Biomass District Heating Project, located in Enterprise.** Wallowa Resources CSI proposes to convert three buildings in downtown Enterprise from expensive heating oil to regionally-produced woody

biomass. The three buildings currently consume over 11,000 gallons of fuel oil at a cost of \$38,000 per year. The grant funds would be used to design and engineer a new boiler room, specify new biomass boilers, plan underground water supply and piping as well as electrical service, instrumentation and controls. The \$240,000 biomass conversion project would be cash flow positive in year one and has a simple payback of 10 years.

- **Heritage Sustainable Resources—\$25,000, Firewood Processing Facility Design & Engineering, located in North Powder.** Heritage, a new business startup, will use the funds to design and engineer a kiln-dried commercial firewood operation in North Powder. Grant resources will allow the company to complete general plant site drawings, detailed equipment drawings and foundation and building plans required for construction. Heritage plans to utilize locally available low-value biomass to produce commercial firewood for sale to regional markets.

### **East Face Restoration Project Grants**

- **North Slope Resources Co.—\$30,000, North Powder Biomass CHP/Biochar Plant Feasibility.** The owners of North Slope Resources, Chris and Donna Heffernan, aim to use local low-value biomass to add value and diversify their agricultural operation in North Powder. They have assembled a well-qualified team to assess the feasibility of farm-scale CHP and biochar production for local use. Located at the base of the Elkhorn Mountains, it is an ideal location to explore the integration of forest health and agricultural resilience via appropriate technology. The grant funds will be used to evaluate pyrolysis equipment systems, assess the farm's demand for biochar and energy and evaluate commercially proven equipment that best meet the farm's needs.

**ODF Cohesive Wildfire Strategy**  
**Biomass Project Investments**  
**10/24/2013**

**City of Enterprise Biomass District Heating Project:** Completed a feasibility studies of the City of Enterprise City Hall, Firehouse, and Library to determine viability of converting three facilities to a wood-based heating system. Established as the Wallowa County seat in 1887, historic Enterprise is located in Northeastern Oregon, and home to 1,940 of the county's total 7,100 person population.

**Status:** Complete

**Work completed:** initial site visits, technology review, and economic analysis

**Award Amount:** \$9,000

**Awardee:** Wallowa Resource Community Solutions Inc.

**Developments:** Received ODF CWS award to pursue phase 2 design and engineering.

**Integrated Biomass Resources Biomass Manufacturing Project:** The study will assess the feasibility of integrating primary wood processing with fuel preparation for biomass thermal products at the Integrated Biomass Resources LLC's facility located in Wallowa, Oregon.

**Status:** Complete

**Work completed:** initial site visits, facility review, safety analysis, and electrical/mechanical integration

**Award Amount:** \$18,500

**Awardee:** Integrated Biomass Resources, Inc.

**Developments:** In 2013, business owner recently received \$3.4 million in New Market Tax Credit funding to fully capitalize the facility. The expanded facility can process 70,000 green tons per year of low value roundwood and has increased employment from 15 to 30 jobs. 2015 USFS awards IBR \$250,000 for biomass heat recovery and drying system.

**Grant County Wood to Energy Cluster Project:** To complete feasibility studies of Humbolt and Seneca elementary schools, Grant County Courthouse, the Sherriff's office and jail in Grant County. This will add to the existing wood energy cluster in the area and provide additional markets for locally produced wood pellets from forest restoration.

**Status:** Complete

**Work completed:** initial site visits, technology review, heat load analysis, and economic analysis

**Award Amount:** \$20,000

**Awardee:** Wisewood, Inc.

**Development:** Projects in cluster deemed to have long payback. Seeking financing models to address capital hurdle.

**Pine Eagle School District Biomass Heat Project:** The purpose of the project is to complete a feasibility study to determine if the utilization of biomass as the source of heat for the Pine Eagle Elementary and High Schools located in Halfway, Oregon is economically and technically viable.

**Status:** Complete

**Work completed:** initial site visits, technology review, and economic analysis

**Award Amount:** \$9,750

**Awardee:** Pine Eagle School District

**Developments:** School District approves phase 2 design and engineering. Applied to CWS/East Face funds but not selected. Applied to ODOE tax credit but denied.

**ODOE Wood to Energy Cluster Project Updates:**

**1. Oregon Military Department, \$50,000**

Conduct a biomass district heating feasibility study for the Umatilla Training Center. The study will provide the foundation for an energy master plan to guide decisions in the redevelopment. This project is evaluating a combined cooling, heating and power district energy system for the training facility. The Guard plans to redevelop the site into a larger, brigade level, regional training center. There are 26-30 buildings that will be used in the short term, with some of these decommissioned and new ones built in the long term plans. There are also other properties on the 17,000 acre site that may have economic development potential. OMD is talking with Business Oregon about possibilities. The project recently received Oregon Renewable Thermal Incentive from Oregon Department of Energy and a Woody Biomass Utilization Grant from USDA Forest Service for \$250,000.

**2. Harney Community Energy, \$47,700**

To develop a new community-scale thermal energy service company that will provide biomass heat to institutions and businesses in Burns. The grant will fund a feasibility study of the business model and assessments of the facilities that could be served by the new company. This project has also received a WBUG for \$250,000 from the USDA Forest Service and an Oregon Renewable Thermal Incentive. Discussions on financial structure and funding are proceeding with Wisewood entering into a subcontract to bring additional expertise on board.

**3. Mt. Bachelor Resort, \$30,000**

To conduct a technical and economic analysis for a central biomass heating system, or a combined heat and power system, for up to 150,000 square feet of existing and planned building space. . This project is evaluating a district energy system for the resort. ENERGYneering is completing the study. There are two main areas at the resort, about 1.5 miles apart from each other. The existing buildings are older with multiple HVAC systems in place. There is also a significant thermal load for snow/ice melting on the sidewalks. There are plans, and NEPA approval, for additional lifts and a new lodge at the Sunrise Base. There is discussion about chips vs pellets as a fuel sources.

**4. Grant County Wood Energy Cluster, \$16,000**

To complete feasibility studies of Humbolt and Seneca elementary schools, Grant County Courthouse, the Sherriff's office and jail in Grant County. This will add to the existing wood energy cluster in the area and provide additional markets for locally produced wood pellets from forest restoration.

**5. Sisters Airport, \$15,000**

To conduct a feasibility study and engineering analysis for installing a biomass boiler in a new building at Sisters Airport. The building is planned to be about 20,000 square feet and the thermal demand is probably about 200-300 Btu/hhr peak. It is tough to compete with alternatives like heat pumps, but they are evaluating and will present multiple options. ENERGYneering team has many ideas and the property has lots of options.

**6. Wallowa Resources Community Solutions, \$9,300**

To complete a feasibility study for a biomass district energy project at the Wallowa County Fairgrounds, including the Wallowa County/Oregon State University extension office, Head Start, Community Connection of Northeast Oregon, Safe Harbors and the Wallowa County Public Health Department.