



**ODF Biomass Program
Cohesive Wildfire Strategy Grant Awards
April 2015**

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.

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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.