

PROJECT SUMMARY**2012 Hazardous Fuels Woody Biomass Utilization Grant Application**(Include this 18-page form at the front of your single PDF file.)

Project Coordinator's Name	Project Coordinator's Email Address and FAX Number	Name of Organization/Business and Mailing Address	Project Coordinator's Office Phone and Cell Phone	Congressional District and County	FS Region	Amount Requested	Non-Federal Matched Funds	Project Duration
Michael Hoffman	mhoffman.cswcd@gmail.com Fax 208-476-7365	Clearwater Soil and Water Conservation District 12730 Highway 12 Ste. C Orofino, Idaho 83544	208-476-5313 x 100 Cell # 208-827-0030	District 1 Clearwater County	1	110,000	45,981	6 months
Regional Biomass Coordinator: Angela Farr								
Project Title: Clearwater County Woody Biomass Facility Engineering Design								
Project Description: The Clearwater Soil and Water Conservation District (CSWCD) seeks funding from the USFS to provide an investment grade engineering plan of a woody biomass renewable energy project. The project will facilitate use of woody biomass as a heat alternative for the Idaho Correctional Institution-Orofino (ICIO) in Orofino, Idaho. The plant design location will be centrally located to offer interconnect the ICIO and, in the future for a local high school and planned hospital expansion.								
Collaborative Partners (Letters of support should be included in the application.): Partnership support for this project consists of a large group of entities: Idaho Correctional Institution – Orofino, Joint School District 171, City of Orofino and Clearwater Economic Development, Clearwater County Commissioners, St. Mary's/Clearwater Valley Hospital and Clinics, University of Idaho Clearwater Co. Extension Service, USFS, Idaho Dept. of Lands, Potlatch Forest Holdings, and the Clearwater Basin Collaborative (CBC). Letters of Support will be provided from all 11 entities.								

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George Bailey	george@mchospital.net 406 822-4963	Mineral Community Hospital 1208 6th Ave. East PO Box 66 Superior, MT 59872	406 822 4841 406 240-3016	MT 1 st Congressional District Mineral County	Region 1	190,000.00	47,500.00	18 months

Regional Biomass Coordinator: Angela Farr**Project Title:**

Mineral Community Hospital Wood to Energy Expansion

Project Description:

Installation of a 2.64 MMBtu/hr wood-pellet fired biomass boiler system, including fuel handling system and fuel storage to provide heating, domestic hot water, and potentially the chilled water system for a new 45,000 sf Critical Access Hospital and Rural Health Clinic in Superior, MT.

Collaborative Partners (Letters of support should be included in the application.):

Eureka Pellet Mills
Montana Department of Natural Resources and Conservation
Tricon Timber
Lolo National Forest

Project Objectives:

Increase use of locally produced wood pellets by 300 tons per year

Offset burning of 51,122 gallons of propane per year reducing the carbon footprint for the new facility by 302 tons per year.

Save the hospital \$65,114 in annual fuel costs, achieving payback for the biomass system between years 5 & 6.

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Chuck Roady	croady@stoltzelumber.com 406-892-1612	F.H. Stoltze Land and Lumber Company 600 Halfmoon Road PO Box 1429 Columbia Falls, MT 59912	Office: 406-892-7000 Cell: 406-212-2214	MT CD 00 Flathead County	FS Region 1	\$250,000	\$445,700	20 months
Regional Biomass Coordinator: Angela Farr, USDA Forest Service, Northern Region								
Project Title: F.H. Stoltze Land & Lumber Co. Woody Biomass Combined Heat and Power Project Phase II								
Project Description: <ul style="list-style-type: none"> • 2.5 Megawatt Woody Biomass fueled Combined Heat and Power (CHP) Renewable Energy Project. Creating enough power to supply about 2,500 households . • Constructed on the Stoltze Sawmill site at Halfmoon in Columbia Falls, MT. • The facility will produce clean, renewable electric power to be used in the northwest by Flathead Electric Coop and steam to be used in industrial applications at the Stoltze sawmill from woody biomass. • Utilize up to 12,000 – 14,000 green tons annually of woody biomass sourced directly from forest management projects (400-450 truckloads of biomass). Will also utilize bark, log yard waste and shavings from the Stoltze facility. * Approximately \$22,000,000.00 capital investment. 								
Collaborative Partners (Letters of support should be included in the application.): Flathead Electric Coop, Senators Tester and Baucus, Montana Department of Natural Resources and Conservation, Flathead National Forest, Kootenai National Forest, Flathead County, Lincoln County, City of Whitefish, City of Kalispell, City of Columbia Falls, Montana West Economic Development, Kootenai River Development Council, Eureka Rural Development, Columbia Falls Chamber of Commerce and Kalispell Chamber of Commerce.								
Project Objectives: <ul style="list-style-type: none"> *To design and construct a Biomass Combined Heat and Power facility that is sized appropriately to meet the energy requirements of Flathead Electric Coop and the local infrastructure's ability to transmit the power. *Engineering and consulting activities for construction engineering, water discharge design and permitting, water supply design and permitting and permitting for construction of a 2.5MW CHP Renewable Energy Facility. *Locally produced clean, renewable energy from local Montana biomass resources. 								

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Dean Rostron	dean@evergreencleanenergy.com	Evergreen Clean Energy LLC	801-404-3943	CO3 Eagle County	2	250,000	62,500	6 months

Regional Biomass Coordinator: Susan Ford**Project Title:**

Eagle Valley Clean Energy

Project Description:

Eagle Valley Clean Energy ("EVCE") is a combined heat and power project with an executed power purchase agreement with Holy Cross Energy and potential heat sales to American Gypsum located in Gypsum Colorado. The facility will utilize woody biomass as its fuel creating clean renewable thermal and electrical energy. The project will result in approximately \$53 million in spending, 100+ construction jobs for 18 months, 41 long term stable above average family wage jobs, over \$5.3 million in annual local spending and increased value of woody biomass in the surrounding private, state, and federal managed forests. The biomass fuel value will enable land managers to treat more acres under the same management budgets throughout the next 40-50 years of the facility's operations.

Collaborative Partners (Letters of support should be included in the application.):

Holy Cross Energy, Town of Gypsum, Eagle County, State Congressionals, US Congressionals, For The Forest, State of Colorado Office of Natural Resources, USFS, local residents. See Appendix 4 for Letters of Support.

Project Objectives:

Project objectives include: 1. Improve economic value and utilization of woody biomass used for creating renewable energy; 2. Create clean renewable energy from woody biomass utilization at a scale that is beneficial to land managers as a sustainable forest management vehicle; 3. Create economic value in forest products that previously had zero or negative value such as hazardous fuels reduction material thus allowing land managers to treat more acres with the same budget; 4. Create long term stable jobs paying above average wages for working in our nation's forestlands and producing clean renewable energy; and create economic stimulus through spending in rural Colorado; and 5. Create a long term, reliable vehicle for safe, ecologically friendly consumption of forest material and an alternative to prescribed burns and wood piles left in the forests.

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Brad Starnes	bstarnes@usd378.org fax 785-485-2860	USD 378 Riley County Schools 204 W. Kansas Ave Riley, KS 66531	785-485-4000 cell phone 785-477-2730	Kansas Riley	2	\$ 90,000	\$ 22,500	9 months

Regional Biomass Coordinator: Susan Ford**Project Title:**

Engineering Design for Wood Pellet Energy System for Riley County, Kansas School District

Project Description:

The Kansas Forest Service provided leadership for a prefeasibility analysis of a potential Woody Biomass Energy Project for Riley County High School and Riley County Grade Schools. Based on the analysis the project is economically feasible as the school system could save about 40% of their annual utility bill by switching to a woody biomass energy system. A wood pellet system with silo is proposed for the project with annual wood pellet consumption estimated to be about 310 tons. A wood pellet supplier is available for the project and this firm has provided an estimated cost for delivering pellet to the site at \$160 per ton.

Collaborative Partners (Letters of support should be included in the application.):

Kansas Forest Service, USDA Rural Development, Riley County School District, Kansas State University, Glacial Hills RC&D, Kansas Small Business Development Center.

Project Objectives:

Complete the engineering design for the project as proposed in the prefeasibility analysis report completed by USFS contracted engineering firm.
Estimate the total project cost for installation of boiler and other hardware
Hire engineering firm through the competitive bidding process to complete the detail engineering analysis task.

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Kendric Wait	kendric@westernres.com	Sanpete Valley Clean Energy LLC PO Box 483 Salem UT 84653	801-425-5987	UT3 Sanpete County	4	250,000	62,500	6 months

Regional Biomass Coordinator: Scott Bell

Project Title:

Sanpete Valley Clean Energy Cogeneration with Moroni Feed Company

Project Description:

Sanpete Valley Clean Energy ("SVCE") is a combined heat and power project in partnership with the host Moroni Feed Company. The project will produce clean renewable energy with electricity being sold to the grid under a long term power purchase agreement as a Qualifying Facility to Rocky Mountain Power or to another utility. The facility will also produce thermal energy for use in the MFC turkey processing and rendering plants and in pelleting operations at the MFC feed mill. The facility will utilize woody biomass along with poultry litter as its fuel creating clean renewable thermal and electrical energy. The project will result in approximately \$75 million in spending, 110 construction jobs for 18 months, 48 long term stable above average family wage jobs, over \$7.9 million in annual local spending and increased value of woody biomass in the surrounding private, state, and federal managed forests.

Collaborative Partners (Letters of support should be included in the application.):

City of Moroni Mayor Todd Smith, Sanpete County Commissioners, Senator Orrin Hatch, Senator Mike Lee, Development Agreement with MFC CEO Matt Cook, Utah Department of Agriculture, Six County Association of Governments. Please see attached Exhibit C.

Project Objectives:

Project objectives include: 1. Improve economic value and utilization of woody biomass used for creating renewable energy 2. Create clean renewable energy from woody biomass utilization at a scale that is beneficial to land managers as a sustainable forest management vehicle 3. Create economic value in forest products that previously had zero or negative value such as hazardous fuels reduction material thus allowing land managers to treat more acres with the same budget 4. Create long term stable above average family wage paying jobs working in our nation's forestlands and producing clean renewable energy

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William Snyder	bill.snyder@fire.ca.gov	California Department of Forestry and Fire Protection P.O. Box Sacramento, Ca.	916-653-4298		R-5			2yrs
Regional Biomass Coordinator:								
Project Title: Conservation Camp Woody Biomass Heating for California								
Project Description: Cal-Fire is attempting to install wood heating infrastructure in two conservation camps. Conservation camps are facilities where low risk incarcerated individuals are housed, trained for wildland fire fighting, and dispatched to suppress wildland fire. One camp is Devil's Garden, located in Modoc County. The second camp is Trinity River, located in Trinity County near Weaverville. The two camps currently use propane and electricity for heating which has a high dollar and Greenhouse gas emissions cost. The feedstock source for Devil's garden is material (pinyon-Juniper) removed by the BLM sagebrush ecosystem restoration project in Lassen and Modoc Counties. The Trinity River camp will obtain feedstock from the Trinity River Sawmill near Weaverville California. Life Cycle Analysis for both camps indicate a six year payback period.								
Collaborative Partners (Letters of support should be included in the application.): Trinity River Lbr. Co., Trinity Co. Fire Safe Council, Trinity County Resource Cons. Dist., Superior Ca. Econ. Devel. Council, Shasta - Trinity NF, Trinity County Board of Supervisors, Ca. Natural Res. Agency, Clarence Rose, Bureau of Land Management-Alturas Field Office, NW Ca Resource Con & Development Council, County of Modoc, Planning Dept., Modoc NF, Modoc Co. Land Use Committee.								
Project Objectives: Demonstrate potential for woody biomass utilization for public facility heating in CA while realizing significant public cost savings and improved markets for the byproducts of hazardous fuels reduction. 2. The State of California has adopted the Global Warming Solutions Act (AB 32) which aspires to reduce the Greenhouse Gas (GHG) emissions for the state as a total. The utilization of biomass as a replacement for fossil fuels is consistent with the statewide objective. 3. The California Fire Plan targets the reduction of large damaging wildfires. One of the main means of achieving the objective is through fuel hazard reduction projects that reduce the fuels and modify fuels arrangement to reduce the risk of these large fires. Fuel hazard reduction projects provide biomass which if it can be used economically reduces the cost of fuel hazard reduction treatments. This project demonstrates fuel hazard reduction treatment residue has economic value. 4. The State with its Vegetation Management Program also has the objective of improving forest health and restoration. These projects demonstrate that residue from such treatments will have value and thus provide funding to treat more acres than possible using public subsidies (state and federal grants). 5. Executive Order S-06-06 (2006) encourages the production and use of energy from the abundant biomass resources found in California. . Senate Bill 1X2 , signed by Governor Brown in April of 2011, makes the utilization of biomass for renewable energy a crucial component in meeting renewable energy goals.								

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Michele Lynn Piller	mpiller@plumasruralser vices.org 530-283-3647	Plumas Rural Services 586 Jackson Street Quincy, CA 95971	530-283-2735, ext. *831 530-570-1791	CA-004 Plumas/Sierra Counties	R5	\$70,125.00	\$17,578	1 year: 10/1/12 – 9/30/13
Regional Biomass Coordinator: Larry Swan								
Project Title: Loyalton Power Plant/Cogeneration Revitalization								
Project Description: Plumas Rural Services (PRS) and Sierra Pacific Industries (SPI) are collaborating to put together a portfolio of engineering plans that will enable the parties to revitalize biomass cogeneration operations and to increase plant efficiency and decrease emissions. Doing so will increase the ability of PRS to attract funding to purchase the plant from SPI, which will release the plant from the final 10 years of a power purchase agreement that has stalled plant operations since 2010. Unburdened by the contract under which SPI must operate, PRS will be able to return the plant to full operational capacity.								
Collaborative Partners (Letters of support should be included in the application.): Sierra Pacific Industries								
Project Objectives: The primary project objective is to carry out the following engineering services to enable PRS to secure financing for the restart of the power plant: <ol style="list-style-type: none"> 1) Feedstock analysis, including sieve analysis, fuel management analysis, and water usage analysis 2) Combustion efficiency control and emissions analysis of the plant's boiler 3) Waste heat and production/residual heat control and ancillary usage analysis 4) Exhaust ash control and usage analysis 								

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David Konno	admin@ysrcandd.org	Yosemite/Sequoia Resource Conservation & Development Council, 57839 RD 225 (Business) P.O. Box 415 (Mailing) North Fork, CA 93643	559-877-8664 (Office) 559-970-6320 (Cell)	Congressional District - 19; Madera County	5	\$134,225	\$34,115	9 Months (6/15/12 to 3/15/13)
Regional Biomass Coordinator: Larry Swan								
Project Title: North Fork Combined Heat and Power (CHP): Distributed Generation from the Geographical Center of California								
Project Description: North Fork is a small, low-income community in the western foothills of the central California Sierra Nevada Mountains, part of the Sierra National Forest. The Project will complete design and engineering services for a one megawatt (MW) gross, 0.9 MW net CHP biomass gasification energy center that will produce a net heat rate of approximately 15.1 MMBtu/MWh, consuming almost 23 bone dry tons (BDT) of chipped wood per day using the lower range, or 8,400 BDT annually, most of it from the adjacent National Forest. The Project assumes a cost-based approach by the Project partners and provides a solid, long-term economic, environmental and social investment in the Sierra Nevada region, as a whole. The funding requested from the USFS will provide support for the necessary services required to complete construction and commence operation of the North Fork CHP facility by December 31, 2013.								
Collaborative Partners (Letters of support should be included in the application.): North Fork Community Development Council, Reliable Renewables, Sierra Nevada Conservancy, Dinkey Collaborative. Letters of support from collaborative partners and other entities can be found in Appendix 5.								
Project Objectives: The overall Project objective is to construct a small, community-scale bioenergy facility at the North Fork Mill Site by December 31, 2013. This will provide numerous economic, environmental, and social benefits to the central Sierra Nevada region and the State of California. These benefits include job creation involving the design, engineering, management, operations, and supply of the CHP facility; a reduction in risk for catastrophic wildfire; improved air quality due to reduced piling and burning of forest biomass; an improvement in overall forest health and habitat quality; and reduced risk of damage to infrastructure within the high wildfire danger area. This project will act as a model for other communities adjacent to the region's national forests, promoting a network of distributed bioenergy facilities that bring environmental, economic and social benefits to the Sierra Nevada.								

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Judy Metcalf	judymetcalf@cedco.net 541-756-0675	Coquille Economic Development Corporation 3201 Tremont St. North Bend, OR 97459	(541) 756-0662 (541) 297-6805	4 th Congressional District; Coos County	Region 6	145,000	36,250	18 months

Regional Biomass Coordinator: Ron Saranich**Project Title:**

Coquille Indian Tribe Community Scale Combined Heat and Power Project Site Evaluation

Project Description:

The Coquille Indian Tribe (CIT) through the Coquille Economic Development Corporation (CEDCO), the parent corporation for all CIT businesses, is evaluating the feasibility of developing, owning and operating a small, community scale combined heat and power (CHP) facility fueled by woody biomass to be sited upon existing CIT property in North Bend, Oregon. The feedstock blend would consist of biomass from forest operation, wood products manufacturing, and urban wood waste. The CHP will be scaled to replace current electricity consumption at the hotel and casino, as well as adjacent tribal administrative offices, and provide heat and steam to business enterprises designated for development adjacent to the proposed CHP site, including a commercial laundry to service the hotel and casino and operate as a retail operation.

Collaborative Partners (Letters of support should be included in the application.):**Project Objectives:**

CIT and CEDCO would like to develop a CHP facility sized to replace current electrical consumption by the hotel, casino and adjacent tribal administration offices. The proposed biomass-fired cogeneration project would further the goal of CEDCO to better utilize forest resources and to achieve a level of energy independence and dependability for CIT.

The project would advance the use of locally sourced woody biomass material, as the only nearby facility consuming such material is located in Coquille, Oregon (20 miles from North Bend). The other consumers of such are located at least 80 miles from North Bend. Transport costs are a primary consideration that limits active competition for biomass fuel. A local outlet would assist in utilization of much of the material currently disposed of through burning or decomposition. The facility would also provide a potential market for byproduct of forest operations from CIT owned and managed forest lands within the region. Small scale CHP technology is basically off-the-shelf and as such most engineering with regard to the equipment has already been completed by the technology companies. In this case, the purpose of the grant would be for site specific engineering. This is because the location is situated adjacent to the waterfront, and site stability and geotechnical considerations would impact infrastructure stability and operation without suitable engineering. Appropriate engineering to secure below grade (preferred method) feedstock storage and conveyance are primary considerations as well.

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Paul Perlwitz	paul.perlwitz@npiusa.com FAX 360-457-8675	Nippon Paper Industries USA Co, Ltd. P.O. Box 271 (1815 Marine Drive) Port Angeles, WA 98362 (98363)	360-565-7045 360-775-0441	WA-006 Clallam County	FS Region 6	\$250,000	\$100,000	18 months

Regional Biomass Coordinator: Ron Saranich

Project Title:
NPI USA Port Angeles Cogeneration Biomass Boiler

Project Description:
The overall goal is to construct a replacement boiler for Nippon Paper Industries USA (NPIUSA) existing biomass boiler and incorporate cogeneration of heat and power. This combined heat and power (CHP) will simultaneously produce 20MW of power and steam for the operation of the paper mill. The green energy project is considered renewable power as it is generated by 100% biomass. The CHP project will exceed the scope of this grant, therefore, the following elements of the CHP would be limited to the engineering tasks remaining to complete the project, or otherwise agreed to under this grant.

Collaborative Partners (Letters of support should be included in the application.):
Washington State Department of Natural Resources, State of Washington, Washington Department of Commerce, Board of Clallam County Commissioners, Association of Western Washington Pulp and Paper Workers (AWPPW, Local 155)

Project Objectives:

- improve mill efficiency
- retain jobs through business diversification
- provide renewable power to the regional grid
- utilize forest slash that would otherwise be open-burned

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Craig Volz	craig.d.volz.ctr@us.army.mil (503) 584-3584	Oregon Military Department P.O. Box 14350 Salem, OR 97309	Ofc: (503) 584-3854 Cell: (503) 851-4744	Marion	6	\$ 375,300	\$ 125,100	21 months

Regional Biomass Coordinator: Ron Saranich

Project Title:

Oregon Army National Guard - Woody Biomass Heating Systems Design

Project Description:

Design woody biomass pellet boiler heating systems for (12) buildings located at (5) sites in Central and Eastern Oregon. Project will replace 16,143 MMBtu annual propane usage with 939 annual tons of woody biomass pellets sourced from local forest biomass residuals. Sites include: Youth Challenge Program in Bend, OR; Central Oregon Unit Training & Equipment Site in Redmond, OR; Biak Training Center in Redmond, OR; Burns Armory in Burns, OR; and (8) facilities at the Umatilla Training Center in Hermiston, OR.

Collaborative Partners (Letters of support should be included in the application.):

Oregon Department of Forestry, Marcus Kaufmann, Biomass Resource Specialist

Project Objectives:

Improve forest health and reduce fire danger, reduce operating costs by \$172,340 per year, increase efficiency with 807 MMBtu annual energy reduction, annually replace 176,066 gallons of propane fossil fuel with 939 tons of renewable woody biomass fuel, improve energy security with locally sourced renewable fuel supply, contribute to the economic health of the Central and Eastern Oregon region with \$3.6M capital construction project and \$151,750 in annual woody biomass fuel purchases, reduce greenhouse gas emissions.

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Jonelle Chapman	JonelleC@PAHardwood.com 360-417-6805	Port Angeles Hardwood, LLC 333 Eclipse Industrial Parkway Port Angeles, WA 98363	Office: 360-656-8271	District 6 Clallam County	R6	250,000.00	67,000.00	Approx. 1 Year

Regional Biomass Coordinator: Ron Saranich**Project Title:**

Woody Biomass Co-generation Engineering for Port Angeles Hardwood

Project Description:

Port Angeles Hardwood is proposing to build and operate a woody biomass co-generation system at its existing sawmill facility in Port Angeles, WA. The facility will utilize the existing 40,000 PPH boiler and install a superheater that would drive a new turbine/generator to produce approximately 2,500 kW of renewable power.

Collaborative Partners (Letters of support should be included in the application.):

Jonelle Chapman, Port Angeles Hardwood, LLC
Norm Dicks, Member of Congress
Peter Moulton, Washington Department of Commerce
Dale Hom, U.S. Forest Service

Project Objectives:

The three primary objectives of the proposed Facility are to use currently underutilized mill residuals generated by Port Angeles Hardwood's existing sawmill operations, retain jobs within Port Angeles and Clallam County, and produce renewable energy.

By utilizing an estimated 35,000 BDT of primary mill residuals generated by Port Angeles Hardwood, the biomass co-generation system would eliminate the amount of biomass currently landfilled by Port Angeles Hardwood and instead be using it as feedstock for the biomass boiler. The project would also retain employment of 5 full-time employees. In addition, an estimated 8 to 12 workers will be required during the design and construction phases of the project.

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Julie Law	jlaw@quinault.org (360) 276-8354	Quinault Indian Nation (QIN) P.O. Box 187 Taholah, WA 98587	(360) 276-8215 ext 218	6 Grays Harbor	6	\$205,000	\$61,900	8 months

Regional Biomass Coordinator: Ron Saranich**Project Title:**

Great Reglons QIN Woody Biomass for Heat Facility

Project Description:

QIN project seeks final engineering & design for a low pressure hot water biomass heating facility. Biomass facility will be designed to heat existing & proposed buildings; existing buildings requiring retro-fit. QIN reservation falls within the lush temperate rainforest and is highly productive. Timber harvests create 32,000 bone dry tons (BDT)/yr of slash. Estimate of 400 BDT/yr needed to generate necessary amount of heat. Air quality, wildlife habitat, and forest resources will benefit from this project. QIN will save \$78,000-\$92,000/year in utility bills from this conversion. Facility will help QIN become more energy independent and self-reliant and create local jobs.

Collaborative Partners (Letters of support should be included in the application.):

American Community Enrichment, Columbia-Pacific Resource Conservation & Economic Development District (ColPac), Greater Grays Harbor Inc. (formally Grays Harbor Economic Development Council), Grays Harbor County, Quinault Indian Nation (QIN), USDA Rural Development/US Forest Service, US Department of Energy

Project Objectives:

1. Support QIN strategic planning goals of Tribal self-sufficiency and energy independence
2. Uses a commercially proven technology
3. Efficiently and economically uses an abundant Tribal resources
4. Promotes QIN forest health and good forest/habitat management
5. Creates local jobs
6. Improves air quality and reduces negative impacts on the respiratory health of Tribal members
7. Initiates a successful pilot project that can lead to larger woody biomass enterprises that will create many jobs

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Drew Gilliland	Gilliland@sou.edu Fax: 541-552-6231	Southern Oregon University 1250 Siskiyou Blvd. Ashland oregon, 97520	Office: 541-552-6233, Cell 541-840-0677	District 2, Jackson County	R6	250,000	62,500	12 months

Regional Biomass Coordinator: Ron Sarnich

Project Title:

Southern Oregon University Biomas Boiler Plant Replacement

Project Description:

Southern Oregon University needs to replace to natrual gas fired boilers that have reached end of life conditions. Results of a commissioned feasibility study indicated a biomass boiler and co-generation option is the optimal solution considering cost, location, job creation and the University's desire for carbon neutrality. A woody biomass boiler would help achieve an institutional goal of reducing campus-wide greenhouse levelsto 10% below 1990 level by 2020 and carbon neurtrality by 2050. Grant monies would fund the pre-engineering phase and confirm assumptions in the feasibility study. Funds would also be used to gather additional required information needed to attain all permits including air emissions modeling and design documents.

Collaborative Partners (Letters of support should be included in the application.):

Governor John Kitzhaber	Bureau of Land Management	Forest Capital Partners
Representative Greg Walden	City of Ashland Electric Department	
Representative Peter DeFazio	Oregon Dept. Of Environmental Quality (Letter of Clarification)	
Senator Jeff Merkley	Southern Oregon Small Diameter Collaborative	
Senator Ron Wyden	Oregon Dept. of Forestry	

Project Objectives:

1. Identify and specify appropriate boiler, turbine and related emissions equipment required to meet campus needs and local air emmisions standards
2. Idetify and complete all air quality permit modeling and report requirements to attain needed permits
3. Identify and confirm availability and transportation costs of sufficient supplies of woody biomass or other acceptable woody fuel product
4. Confirm appropriate biomass fuel materials, costs, and storage requirements.
5. Obtain necessary engineernig an architectural design documents to confirm construction and equipment costs and need facility expansion.
6. Develop a 10 year business plan proforma which identifies fuel costs, electrical production savings, power purchase agreements, and operational costs
7. Develop cost estimate a construction budget to assist in procurinig additinoal funding from grants, deferred maintenance monies, etc.

PROJECT SUMMARY**2012 Hazardous Fuels Woody Biomass Utilization Grant Application**(Include this 18-page form at the front of your single PDF file.)

Project Coordinator's Name	Project Coordinator's Email Address and FAX Number	Name of Organization/Business and Mailing Address	Project Coordinator's Office Phone and Cell Phone	Congressional District and County	FS Region	Amount Requested	Non-Federal Matched Funds	Project Duration
John Campbell	john.campbell@rollcastenergy.com (704) 371-3233	Greenway Renewable Power, LLC 301 S. Tryon St. Suite 1590 Charlotte, NC 28282	(404) 201-2540 (office) (404) 992-0432 (cell)	District 3 Troup County	8	\$250,000	\$192,121,000	4 years

Regional Biomass Coordinator: Dan Len, Forest Service Region 8**Project Title:**

Greenway Renewable Power

Project Description:

Greenway Renewable Power is a green field biomass energy project located in LaGrange, GA under development by Rollcast Energy, Inc. This project is located in Troup County, Georgia and will rely on sustainable woody biomass from forestry operations, mill residues, and urban wood waste within Georgia and Alabama as a fuel source. The project will have a net output of 53.75MW and power will be sold to Georgia Power under a 20-year Power Purchase Agreement. This Project will have a significant positive economic impact on the area surrounding LaGrange, GA area. Several hundred direct new jobs are anticipated during the construction phase, 30 direct plant employees will be hired for long-term operations, and over 300 indirect jobs supporting the Project woody biomass fuel requirements will be created. The project will require 492,000 tons per year of biomass from the area within a 75-mile radius of LaGrange.

Collaborative Partners (Letters of support should be included in the application.):

City of LaGrange, GA (Memorandum of Understanding included in Appendix D). The MOU illustrates the City of LaGrange's support of the Project. Although letters of support should be limited to one page, the MOU is five pages and outlines the areas in which the City supports the Project.

Georgia Forestry Commission. A letter of support attached in Appendix D. The GFC biomass assessment for the Project is also attached in Appendix B.

Project Objectives:

The project is a 53.75 MW biomass power generation facility located in LaGrange, GA, requiring 492,000 tons of biomass per year from local forest residue, urban wood waste, and mill residues.

The objectives of Greenway Renewable Power are to:

- (1) utilize local woody biomass fuel to create clean, renewable energy
- (2) stimulate the local economy by providing an estimated 600 direct and indirect local jobs during and after construction
- (3) reduce hazardous fuels left on the forest floor, create a market for timber management on private lands, and reduce the spread of forest insects and disease

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Louise Waller	wallermw@longwood.edu 434.395.2647	Longwood University 201 High Street Farmville, Virginia 23909	434.395.2809	District 5 Prince Edward County	8	\$250,000	\$50,000	1 year
Regional Biomass Coordinator: Dan Len, Woody Biomass Coordinator, U.S. Forest Service Southern Region								
Project Title: Additional Biomass Boiler Capacity with Alternate Fuel-Feed System Engineering Study								
Project Description: Longwood University has been utilizing biomass fuel (sawdust) in its heating plant for nearly 30 years, and completed construction of a replacement heating plant in 2011 containing two wood-fired (sawdust) boilers. The wood-fired boilers are capable of meeting current demands but do not accommodate future growth or provide redundancy for reliability. An engineering study to design additional boiler capacity with an alternate fuel-feed system is needed to enable the heating plant to operate more efficiently and reliably, diversify its fuel stream, accommodate future campus growth, and provide a facility to conduct test burns for new renewable energy products.								
Collaborative Partners (Letters of support should be included in the application.): Cassandra Stish Buckingham County Supervisor, District 5 Member of Resource Conservation and Development Council Member of Commonwealth Regional Council								

PROJECT SUMMARY

2012 Hazardous Fuels Woody Biomass Utilization Grant Application

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Gwendolyn Hallsmith	Email: ghallsmith@montpelier-vt.org FAX:(802) 223-9519	City of Montpelier City Hall - 39 Main Street Montpelier, VT 05602	Office: 802 223-9506 ext.31	00 -- At Large	09	\$248,556	\$69,139	18 months

Regional Biomass Coordinator: Lew McCreery

Project Title:
Montpelier Community Renewable Energy District Heating Project

Project Description:
The City of Montpelier, together with the State of Vermont, has a funded project that will rebuild and expand a central heat plant that now serves a collection of state buildings so that it has the capacity to serve Montpelier municipal and school buildings as well as the potential to serve virtually the entire downtown community of Montpelier with renewable woody biomass thermal energy.

The Woody Biomass Utilization grant would be used to design expanded connected load to the new City district heating system, thereby replacing greater amounts of fossil fuel consumption with with thermal energy derived from forest harvested wood biomass and for the community to receive additional attendant benefits.

Collaborative Partners (Letters of support should be included in the application.):

State of Vermont
General Services Administration
Union Mutual Insurance Company

PROJECT SUMMARY

2012 Hazardous Fuels Woody Biomass Utilization Grant Application

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Project Coordinator's Name	Project Coordinator's Email Address and FAX Number	Name of Organization/Business and Mailing Address	Project Coordinator's Office Phone and Cell Phone	Congressional District and County	FS Region	Amount Requested	Non-Federal Matched Funds	Project Duration
Greg Chanis	gchanis@sullivancounty.nh.gov Fax: 603.863.9314	County of Sullivan, NH 14 Main St. Newport, NH 03773	Office-603.863.2560 Cell-603.477.0855	NH-002 Sullivan County, NH	FS Region 9	\$250,000	\$90,000	14 Months

Regional Biomass Coordinator: Lew McCreery**Project Title:**

Sullivan County, NH Biomass CHP Project

Project Description:

Project will utilize an advanced biomass combustion unit, fueled by renewable, sustainably harvested, locally sourced woodchips, to create a thermally led District Energy Steam Plant that will service the County complex located in Unity, NH. Coupled with a 40Kw backpressure steam turbine/generator, this system will replace 90% of the current fossil fuel usage and generate 10% of the current electrical demand at the complex. Sullivan County is seeking a grant of \$250,000 through this application to perform the full engineering design of the proposed system

Collaborative Partners (Letters of support should be included in the application.):

New Hampshire Timberland Owners Association
University of New Hampshire Cooperative Extension
State of New Hampshire, Division of Forests and Lands
Society for the Protection of New Hampshire Forests

Project Objectives:

Sullivan County, NH hopes to meet the following objectives through the implementation of this project:

- 1). Reduce the counties annual operating budget, and subsequent burden on the county taxpayers, through long term savings in fuel expense.
- 2). Increase the usage and production of renewable energy.
- 3). Create redundancy and flexibility in both equipment and potential fuel sources.
- 4). Provide local market for low value forest products and non-harvesting forest activity materials
- 5). Reduce the counties net carbon emissions

PROJECT SUMMARY

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Gloria Patsy, City Treasurer	nulatotreasurer@gmail.com, Fax 907-898-2203	City of Nulato	907-898-2205	Alaska, 1-A	10	\$40,420	\$10,105	3 months

Regional Biomass Coordinator:

Project Title:

Engineering Design for the Nulato School and Washeteria/Water Plant Biomass District heating System

Project Description:

Acquiring professional engineering construction ready designs for the Nulato school and washeteria biomass project

Collaborative Partners (Letters of support should be included in the application.):

N/A

Project Objectives:

To design and construction a biomass wood boiler heating system using local resources to reduce the community's dependence on diesel.