

Wood Bioenergy US



Forisk Consulting, LLC

Data as of January 30, 2012

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Projected Annual Wood Demand, 2022, green tons

Region*	Projects Announced & Operating	100% Total Tons	Technology Screen	Status Screen**	% that pass screens
North	201	42,052,475	37,742,500	25,748,500	61%
South	142	59,990,804	42,236,806	29,425,906	49%
West	109	20,908,771	19,471,396	13,862,796	66%
Total	452	122,952,050	99,450,702	69,037,202	56%

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For a complete project listing, subscribe to the full **Wood Bioenergy US** project tracker at www.foriskstore.com.

Project Count

Region*	Type					Total	Total that pass screens
	Electricity	CHP	Thermal	Liquid Fuel	Pellet		
North	72	23	9	12	85	201	140
South	43	20	10	21	48	142	87
West	40	19	2	7	41	109	69
Total	155	62	21	40	174	452	296

*The breakdown of states by region can be found on the Forisk website, www.forisk.com, on the Bioenergy page. The North region includes states in the Northeast, Lake States, and Appalachia.

**The status screen is cumulative and is applied to projects that pass the technology screen.

Monthly Update

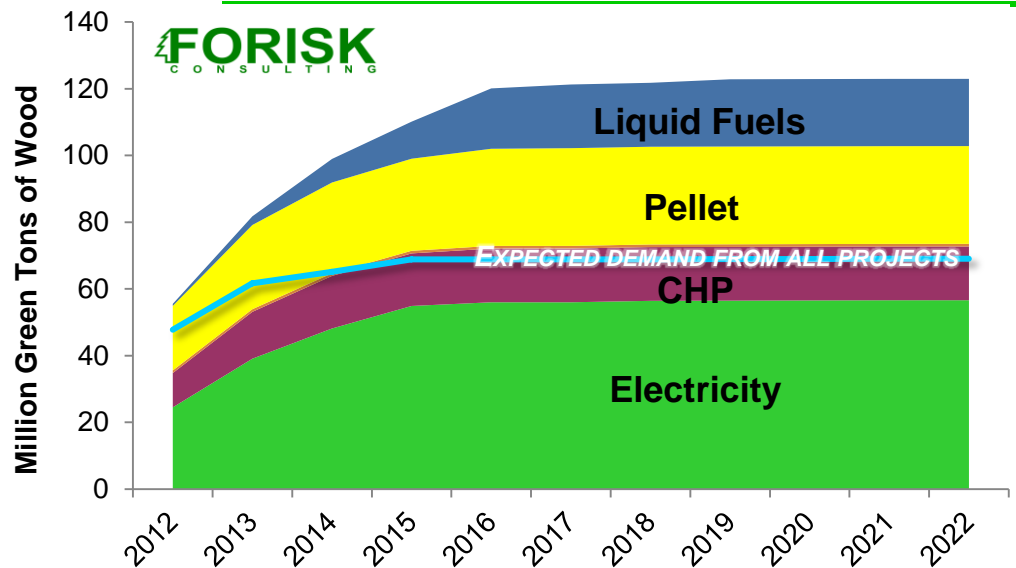
The USDA granted ZeaChem a conditional commitment for a \$232.5 million loan guarantee from the 9003 Biorefinery Assistance Program. The loan guarantee could help fund a 25 million gallon per year commercial biorefinery. ZeaChem plans to build the commercial biorefinery at the same site as its demonstration plant in Boardman, OR. The company completed construction of the core operations at the demonstration plant this month and continues construction on the ethanol production units for a 2012 start-up.

The Enova Energy Group announced that they completed financing for the Plainfield Renewable Energy project, a proposed 37.5 MW biomass electricity plant in CT. The group plans to begin operations by December 2013.

LanzaTech purchased the former Range Fuels site in Soperton, GA for \$5.1 million in a foreclosure auction. The company plans to use wood residues to produce fuels and chemicals.

Enviva's first shipment of pellets left from Port of Chesapeake on December 31 bound for Europe. The vessel contained 28,000 metric tons of wood pellets. Enviva began operations at the Ahoskie pellet plant in November. Two additional plants are in the planning stages in North Carolina and Virginia that will also use the port.

Estimated Wood Use by Announced Facilities



Notes and Assumptions

- CHP is combined heat and power, or cogeneration. Thermal volumes are less than 1% of total volume in 2022.
- "Expected Demand" is estimated wood use by all projects that pass the technology and status screens.
- Assume 100% wood use unless feedstock mix is specified.
- If a project does not announce a startup date, then Forisk estimates the start date.
- Technology: if the technology is viable today, then the project passes the technology screen. Pelletizing technology and electricity are currently proven technologies that pass this screen. Cellulosic ethanol from wood feedstock is still a developing technology and is currently not operational.
- Status: if the project has received/secured/signed two or more of the following then it passes the status screen: financing, air quality permits, Engineering Procurement and Construction contracts (EPC contracts), power purchase agreements for electricity facilities, interconnection agreements for electricity facilities, and supply agreements.