

Wood Bioenergy US



Forisk Consulting, LLC

Data as of August 30, 2011

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Projected Annual Wood Demand, 2021

Region*	Projects Announced and Operating	100% Total Tons	Technology Screen	Status Screen**	% that pass screens
North	208	45,592,807	42,986,832	28,340,332	62%
South	149	68,356,954	51,002,956	27,771,800	41%
West	105	19,999,199	18,321,824	12,918,224	65%
Total	462	133,948,960	112,311,612	69,030,356	52%

FORISK CONTACT INFO:

Amanda Hamsley Lang
Managing Editor • 478.396.0704
ahlang@forisk.com

Brooks Mendell, Ph.D.
Publisher • 678.984.8707
bmendell@forisk.com

Seth Freeman
Market Coordinator • 229.567.7589
srfreeman@forisk.com

Tim Sydor, Ph.D.
Forest Economist • 706.621.2370
tsydor@forisk.com

Heather Clark
Customer Relations • 770.725.8447
hclark@forisk.com

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

Project Count

Region*	Type				Total that pass screens
	Electricity	Liquid Fuel	Pellet	Total	
North	107	12	89	208	141
South	82	17	50	149	80
West	61	7	37	105	63
Total	250	36	176	462	284

*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

Enviva announced plans for a new pellet facility in Northampton County, NC. The facility would produce 400,000 metric tons per year of pellets for export and begin operations by October 2012. Enviva also announced a partnership with Biomass Energy, LLC to operate and expand its Bumpass, VA plant. The firms plan to produce 350,000 metric tons of pellets for export over three years.

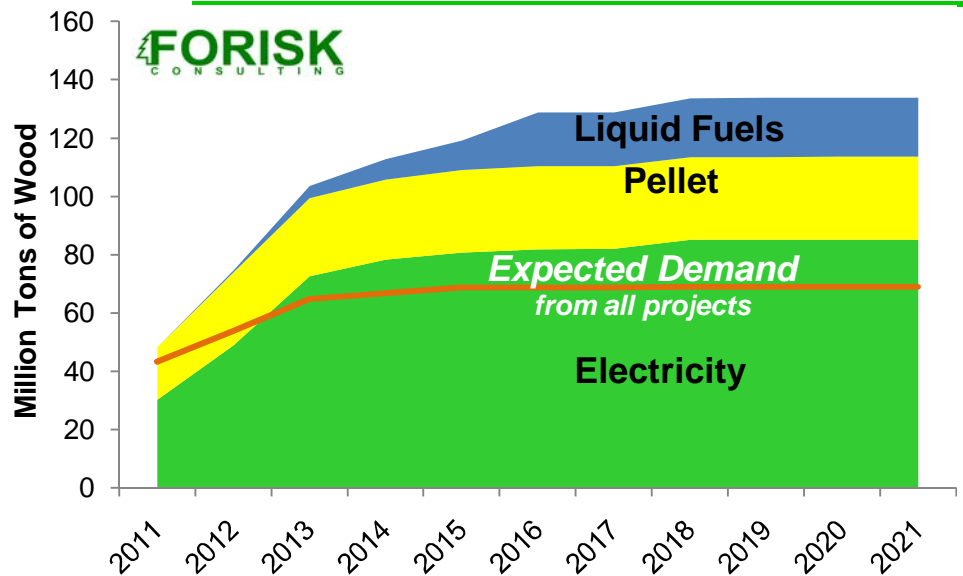
Fram Renewable Fuels and Telfair Forest Products will build a pellet plant in Lumber City, GA. The plant will produce 125,000 metric tons of pellets per year and is scheduled to open in January 2012. Fram currently operates a pellet plant in Baxley, GA.

Green Power Solutions, a partnership between Beasley Forest Products and Land Care Services, plans to build a 56 MW biomass cogeneration plant in Laurens County, GA. The plant will also sell steam to a nearby paper mill.

The \$75 million federal loan guarantee for INEOS New Planet BioEnergy was finalized this month. The firm is building an 8 million gallon per year cellulosic ethanol plant in Vero Beach, FL. The USDA loan guarantee is the first of three announced this year to close.

Envergent Technologies, a Honeywell Company, began construction of a demonstration scale plant to convert cellulosic material into transportation fuels in Kapolei, HI. The project received a \$25 million DOE grant.

Estimated Wood Use by Announced Facilities



Notes and Assumptions

- "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.

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