

Projected Annual Wood Demand, 2020

Region*	Projects Announced and Operating	100% Total New Tons	Technology Screen	Status Screen**	% that pass screens
North	203	47,381,067	41,450,172	29,918,172	63%
South	145	57,961,662	47,439,503	24,938,925	43%
West	93	17,169,174	16,595,624	12,216,024	71%
Total	441	122,511,903	105,485,299	67,073,121	55%

FORISK TEAM:

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 Sidor, Ph.D.
Forest Economist • 706.621.2370
tsidor@forisk.com

Neena Mishra
Dir. of Equity Research • 706.254.3344
nmishra@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	103	13	87	203	144
South	81	15	49	145	82
West	59	6	28	93	61
Total	243	34	164	441	287

*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

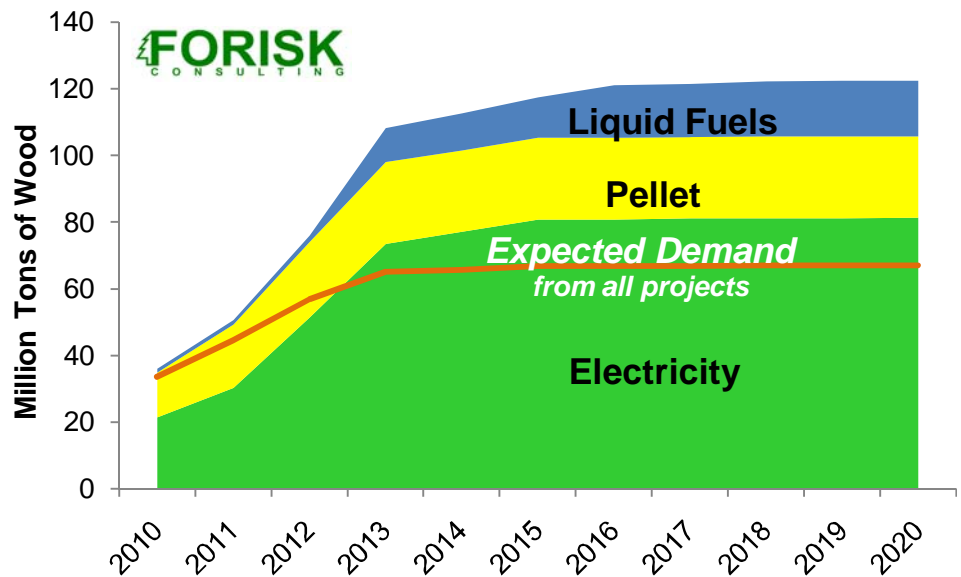
The Tax Relief, Unemployment Insurance Reauthorization and Job Creation Act of 2010, signed into law by President Obama on December 17, 2010, extends the Section 1603 program. This provides relief to biopower project developers rushing to begin construction to meet the previous December 31, 2010 deadline. The deadline has been extended to December 31, 2011. The Section 1603 program provides the option of a cash grant instead of the tax credit program.

Several firms cancelled or delayed bioelectricity projects late this year. Xcel Energy decided not to convert a third boiler to biomass due to higher than expected project costs and regulatory uncertainty. The plant will continue to use biomass at the current level in two of its three boilers. FirstEnergy decided not to convert the R.E. Burger Plant to biomass due to decreased electricity prices. Duke Energy and American Electric Power are reconsidering the use of wood for power plants in Ohio.

Enviva LP announced plans to build a 330,000 ton per year pellet facility in Ahoskie, North Carolina at a former Georgia-Pacific lumber manufacturing site. Enviva received a \$270,000 grant from the One North Carolina Fund.

The American Renewables 100 MW project in Gainesville, Florida made progress this month. It was awarded an air permit on December 28 and received approval from the governor and cabinet earlier in the month.

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.