

A publication by Forisk Consulting that tracks, screens, and analyzes the wood bioenergy sector in the United States.

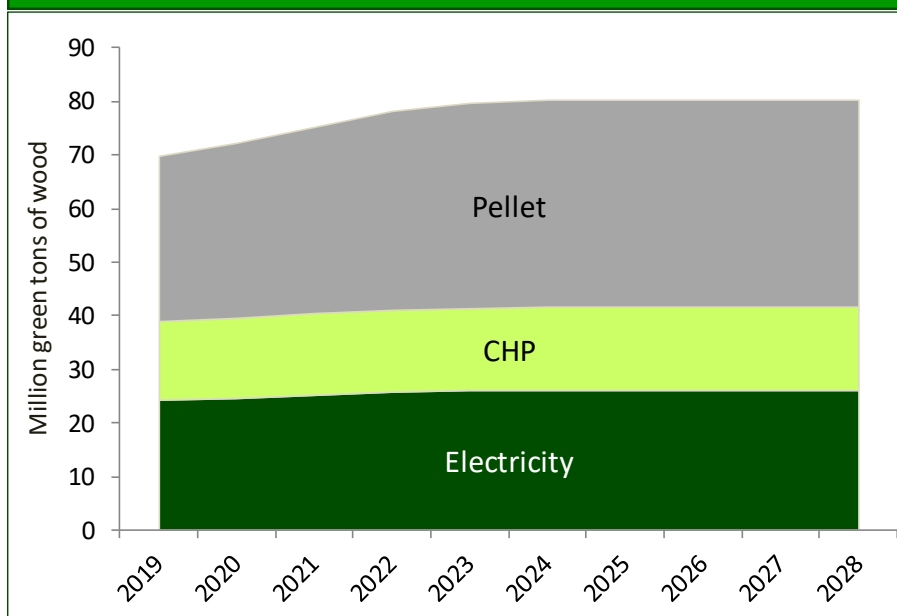
Free Summary

Number and Wood Use of Announced and Operating Projects, 2028

Region	Number of Projects by Type						Total	Total that pass screens	Wood Use of All Projects gtons	Wood Use of Projects that Pass Screens gtons
	Electricity	CHP	Thermal	Liquid Fuel	Pellet	Other				
North	43	26	8	14	76	0	167	115	24,324,616	22,067,516
South	23	20	9	18	75	4	149	87	63,677,739	46,070,990
West	36	19	2	5	46	1	109	69	15,880,726	12,386,576
Total	102	65	19	37	197	5	425	271	103,883,081	80,525,082

- **As of October 18, 2019, there were 425 projects in Forisk's Wood Bioenergy US database.** All announced and operating projects could use a total of 103.8 million green tons of wood per year by 2028. Projects that pass viability screens could consume 80.5 million tons of wood per year.
- Of the 149 projects announced and operating in the South, 87 pass viability screens. In the West, 69 of the 109 announced and operating projects pass viability screens. In the North, 115 of the 167 announced and operating wood bioenergy projects pass Forisk's viability screens.
- Regionally, the U.S. North still has the largest share (42%) of viable wood bioenergy projects while the South accounts for 57% of the potential wood use for bioenergy.

Estimated Wood Use by Announced Facilities that Pass Screens



Notes

- Estimated demand is wood use by all projects that pass the technology and status screens.
- 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. Torrefied biomass technology does not pass the technology 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, off-take agreements, interconnection agreements for electricity facilities, and supply agreements.
- CHP is combined heat and power, or cogeneration. Thermal volumes are less than 1% of total volume in 2028.
- Assume 100% wood use unless feedstock mix is specified.
- If a project does not announce a startup date, then Forisk estimates the start date.

Forisk Contact Information:

Andrew Copley
Managing Editor
acopley@forisk.com

Amanda Lang
Publisher
ahlang@forisk.com

Forisk Consulting, LLC • PO Box 5070, Athens, GA 30604 • Phone: 770.725.8447