

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

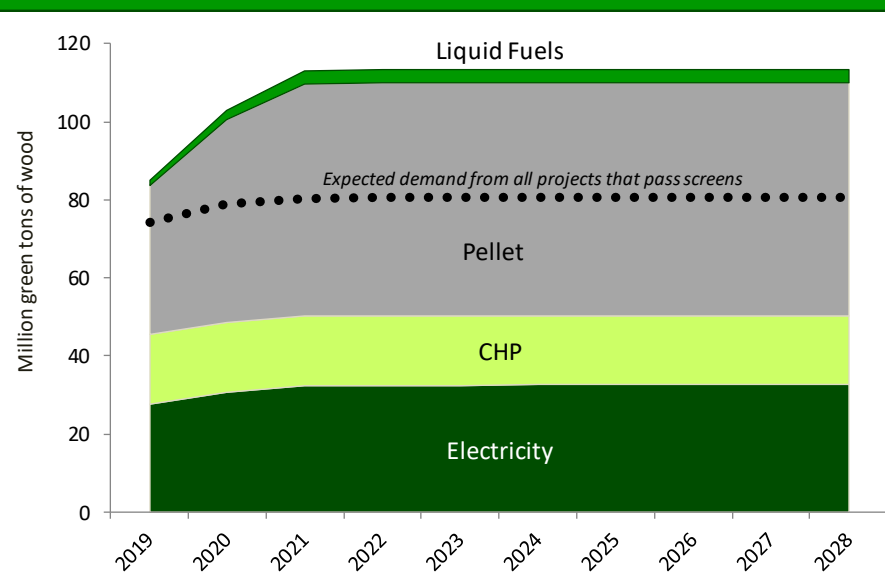
Free Summary

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	46	26	9	15	81	0	177	124	27,796,514	23,740,414
South	29	20	9	15	81	4	158	90	69,703,390	44,358,241
West	34	19	1	5	42	1	102	67	16,393,021	12,732,246
Total	109	65	19	35	204	5	437	281	113,892,925	80,830,901

- **As of January 18, 2019, there were 437 projects in Forisk's Wood Bioenergy US database.** All announced and operating projects could use a total of 113.9 million green tons of wood per year by 2028. Projects that pass viability screens could consume 80.8 million tons of wood per year.
- Of the 158 projects announced and operating in the South, 90 pass viability screens. In the West, 67 of the 102 announced and operating projects pass viability screens. In the North, 124 of the 177 announced and operating wood bioenergy projects pass Forisk's viability screens.
- Regionally, the U.S. North still has the largest share (44%) of viable wood bioenergy projects while the South accounts for 55% of the potential wood use for bioenergy.

Estimated Wood Use by Announced Facilities



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.

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