

Boise Cascade Wood Products - Energy Usage and Source Summary¹

Energy Parameter		Units	Total Combined (BBtu)					Total Combined / Production (BBtu/MCF x 100,000)					Percent Change (2012-2020)
			2012	2014	2016	2018	2020	2012	2014	2016	2018	2020	
Electricity ²													
Non-Renewable Resources	Coal	BBtu	395	651	414	322	257	197	215	152	116	111	-44%
	Oil	BBtu	5.9	13	11	9.7	6.0	3.0	4.3	4.1	3.5	2.6	-13%
	Gas	BBtu	248	348	401	372	386	124	115	147	134	166	34%
	Other fossil	BBtu	1.9	3.9	3.8	3.1	2.0	0.9	1.3	1.4	1.1	0.9	-7%
	Nuclear	BBtu	25	140	100	92	77	13	46	37	33	33	162%
	Other unknown/ purchased fuel	BBtu	1.0	1.3	1.4	1.1	1.1	0.5	0.4	0.5	0.4	0.5	-10%
Total Electricity Derived from Non-Renewable Resources		BBtu	677	1,157	931	800	729	338	383	342	288	314	-7%
		%	56%	69%	60%	62%	62%	56%	69%	60%	62%	62%	11%
Renewable Resources	Hydro	BBtu	418	366	423	310	254	209	121	156	112	109	-48%
	Biomass	BBtu	14.9	26	25	22	20	7.4	8.7	9	8	8	13%
	Wind	BBtu	87	110	154	152	149	43	36	56	55	64	47%
	Solar	BBtu	0.4	1.1	6.2	14	13	0.2	0.4	2.3	5.0	5.8	3158%
	Geo- thermal	BBtu	5.1	9.1	5.6	3.7	3.2	2.5	3.0	2.1	1.3	1.4	-45%
Total Electricity Derived from Renewable Resources		BBtu	525	512	614	501	439	262	170	226	180	189	-28%
		%	44%	31%	40%	38%	38%	44%	31%	40%	38%	38%	-14%
Total Electricity Usage		BBtu	1,203	1,669	1,545	1,301	1,168	601	553	568	469	503	-16%
Other Energy Sources													
Natural Gas Usage		BBtu	1,302	1,845	1,858	1,788	2,080	650	611	683	644	896	38%
% Energy from Natural Gas		%	16%	14%	15%	17%	19%	16%	14%	15%	17%	19%	23%
Biomass Usage ³		BBtu	5,885	9,267	8,820	7,647	7,650	2,939	3,068	3,242	2,753	3,294	12%
% Energy from Biomass		%	70%	73%	72%	71%	70%	70%	73%	72%	71%	70%	0%
Total Energy													
Total from Non-Renewable Source		BBtu	1,980	3,002	2,789	2,588	2,809	989	994	1,025	932	1,210	22%
		%	24%	23%	23%	24%	26%	24%	23%	23%	24%	26%	9.2%
Total from Renewable Source		BBtu	6,411	9,779	9,434	8,148	8,089	3,202	3,238	3,467	2,933	3,483	9%
		%	76%	77%	77%	76%	74%	76%	77%	77%	76%	74%	-2.9%
Total Energy Usage		BBtu	8,390	12,781	12,223	10,736	10,898	4,190	4,232	4,492	3,865	4,693	12%

Notes:

¹ Energy usage details reflect electricity, natural gas, and biomass usage at all manufacturing locations.

² Electricity resource mix from details provided in eGRID 2012, 2014, 2016, 2018, and 2019.

³ Biomass usage is calculated and may vary depending on calculation method, assumptions (e.g. boiler efficiency) etc.

MCF: Thousand Cubic Feet Solid Wood Equivalent