

**2. NEW PROPOSED - 34 MW - BIOMASS POWER PLANT (FAIR HAVEN, VERMONT)**

Note pollution quantities are for Fairhaven electric boiler only to "compare apples to apples".

Pollutant quantities from Fairhaven pellet manufacturing and other facility sources are significant but not included in electric production pollution rates.

Gross Power Generation =	34	MW	Page 2 of 47	<a href="http://www.anr.state.vt.us/air/Permitting/docs/tap11015.pdf">http://www.anr.state.vt.us/air/Permitting/docs/tap11015.pdf</a>
Uptime =	96	%	Page 7 of 47	<a href="http://www.anr.state.vt.us/air/Permitting/docs/tap11015.pdf">http://www.anr.state.vt.us/air/Permitting/docs/tap11015.pdf</a>
<b>Total Gross Generation =</b>	<b>285,926</b>	<b>MWh/year</b>		

	Tons per Year	Lbs/MWh		
Carbon Dioxide (CO2)	427889	2,993	Page 35 of 47	<a href="http://www.anr.state.vt.us/air/Permitting/docs/tap11015.pdf">http://www.anr.state.vt.us/air/Permitting/docs/tap11015.pdf</a>
Carbon Monoxide (CO)	152.0	1.063	Page 7 of 47	<a href="http://www.anr.state.vt.us/air/Permitting/docs/tap11015.pdf">http://www.anr.state.vt.us/air/Permitting/docs/tap11015.pdf</a>
Volatile Organic Compounds (VOC)	10.1	0.071	Page 7 of 47	<a href="http://www.anr.state.vt.us/air/Permitting/docs/tap11015.pdf">http://www.anr.state.vt.us/air/Permitting/docs/tap11015.pdf</a>
Particulate Matter (PM 10)	38.5	0.269	Page 7 of 47	<a href="http://www.anr.state.vt.us/air/Permitting/docs/tap11015.pdf">http://www.anr.state.vt.us/air/Permitting/docs/tap11015.pdf</a>
Nitrogen Oxides (NOx)	60.8	0.425	Page 7 of 47	<a href="http://www.anr.state.vt.us/air/Permitting/docs/tap11015.pdf">http://www.anr.state.vt.us/air/Permitting/docs/tap11015.pdf</a>
Sulfur Dioxide (SO2)	40.5	0.283	Page 7 of 47	<a href="http://www.anr.state.vt.us/air/Permitting/docs/tap11015.pdf">http://www.anr.state.vt.us/air/Permitting/docs/tap11015.pdf</a>
Ammonia (NH3)	11.9	0.083	Page 98 of 244	<a href="http://www.anr.state.vt.us/air/permitting/PermitsTAs/BWEFHAPCDApplication.pdf">http://www.anr.state.vt.us/air/permitting/PermitsTAs/BWEFHAPCDApplication.pdf</a>

**HEAD TO HEAD COMPARISON**

Pollution Rate - LBS per MWh	1960 MT TOM COAL	NEW FAIRHAVEN BIOMASS	FAIRHAVEN Difference %
Carbon Dioxide (CO2)	1,963	2,993	+ 52%
Carbon Monoxide (CO)	1.07	1.06	~ Equivalent
Volatile Organic Compounds (VOC)	0.03	0.07	+ 158%
Particulate Matter (PM)	0.05	0.27	+ 457%
Nitrogen Oxides (NOx)	1.08	0.43	-61%
Sulfur Dioxide (SO2)	2.07	0.28	-86%
Ammonia (NH3)	0.002	0.083	+ 3479%

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