

EMISSIONS COMPARISON DATA

BURNING WOOD IS “DIRTIER” THAN BURNING COAL

PLANT	FUEL	CO ₂ /MW (tpy)	NO _x /MW (tpy)	PM /MW (tpy)
Boardman (PGE) ¹	Coal	9067	3.38	0.59
PVEC ²	NG	3130	0.23	0.12
BIOMASS PLANTS IN MASSACHUSETTS				
Russell Biomass ³	Wood	12, 644	3.9	1.69
Increase over Coal		(+39%)	(+31%)	(+186%)
Increase over NG		(+304%)	(+1596%)	(+1309%)
PRE Biomass ⁴	Wood	11,312	3.49	1.15
Increase over Coal		(+25%)	(+15%)	(+95%)
Increase over NG		(+262%)	(+1417%)	(+858%)
Palmer ⁵	C&D	12,415	3.53	0.71
Increase over Coal		(+37%)	(+4%)	(+20%)
Increase over NG		(+297%)	(+1435%)	(+492%)

Comparison to coal (% above coal emissions)=[biomass level-coal level]/[coal level]

Comparison to natural gas (% above NG)= [biomass level-NG level]/[NG level]

N.B. All the numbers were taken from proposals or environmental statements from the power producers. All the numbers reflect use of pollution controls.

¹ Boardman is being re-permitted. The plant is in Portland, OR. These are the emissions for 2014 which is when the above noted biomass plants should come on-line. It is one of the few plants in the country with verifiable particulate numbers.

² PVEC is a 400 MW natural gas plant in the process of permitting in Holyoke/Westfield, MA

³ Russell Biomass is a 50MW wood burning plant in the process of permitting in Russell, MA

⁴ PRE is a 47 MW wood burning plant in the process of permitting in Greenfield, MA

⁵ Palmer is a 38 MW C&D burning incinerator in the process of permitting in Springfield, MA