Stop Spewing Carbon Campaign

Comparison of Most Relevant Air Emissions: Fossil fuels to wood burning biomass and "construction and demolition debris"

Biomass and C&D are dirtier than coal

Plant Name/Location	Fuel type	CO ₂ /MW	NOx/MW	PM/MW
		tpy ¹	tpy	tpy
Boardman, OR ²	Coal	9067	3.38	0.59
PVEC ³ MA	NatGas	3130	0.23	0.12
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Russell Biomass ⁴	Wood	12, 644	3.9	1.69
Dirtier than Coal		+39%	+31%	+186%
Dirtier than Nat Gas		+304%	+1596%	+1309%
Pioneer Renewable ⁵	Wood	11,312	3.49	1.15
Dirtier than Coal		+25%	+3%	+95%
Dirtier than Natural Gas		+262%	+1417%	+858%
Palmer Renewable ⁶	C&D	12,415	3.53	0.71
Dirtier than Coal		+37%	+4%	+20%
Dirtier than Natural Gas		+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.

² Boardman (operated by Portland Gas & Electric) is being re-permitted. Emissions figures are for 2014, when the two Massachusetts biomass plants are schedule to come on-line. Boardman is one of the few plants in the country with verifiable particulate numbers.

¹ Tpy=tons per year

³ Pioneer Valley Energy Center (PVEC) is a proposed 400 MW natural gas plant Westfield, MA. Emissions figures from company permitting applications.

⁴ Russell Biomass is a 50MW wood burning plant proposed for Russell, MA. Emissions figures from company permitting applications.

⁵ Pioneer Renewable Energy is a 47 MW wood burning plant proposed for Greenfield, MA. Emissions figures from company permitting applications.

⁶ Palmer is a 38 MW construction and demolition debris proposed for Springfield, MA. Emissions figures from company permitting applications.