

## The PGS-20 Biomass Refinery



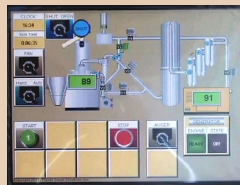
Biomass gasification transforms organic materials, such as wood chips, into synthesis gas (syngas).

Syngas can power engines to create electricity, be used to heat water, greenhouses and buildings, or condensed into synthetic fuels.

Another highly useful product of gasification is biochar. This great soil additive has the ability to trap CO<sup>2</sup> and hold it in the soil. This reduces our greenhouse gasses.



There are other systems on the market, but none compare to the PGS for automation and ease of operation. Saving time... and money!



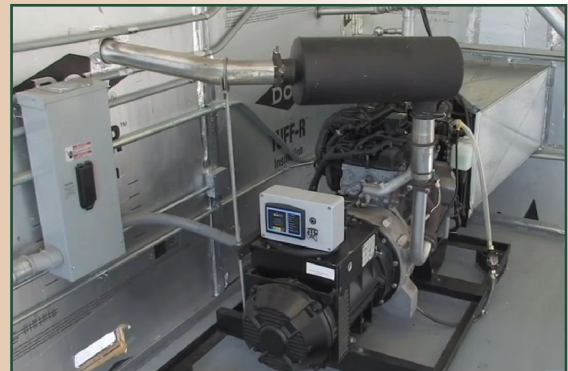
The automated control panel, makes operations as simple as many household appliances.

The syngas is cleaned through a series of filters

This Ford 2.3 liter engine is specially modified to run syngas, producing a continuous 74 hp.

The generator produces 20kW of safe, clean 110/220 electrical power.

The PGS-20 produces enough electricity and heat to service a large home, shop and even a greenhouse.



Larger systems can be used for communities and ecovillages

MODEL	ELECTRIC POWER	HEAT	PRICE RANGE
PGS-20	20kW	405,000 BTU/h	\$48,800 – 89,800
PGS-60,	60kW	1 million BTU/h	\$79,400 – 134,600
PGS-120,	120kW	2.3 million BTU/h	\$99,800 – 217,400

Price within range is determined by electrical and heat needs and automation configurations