



250MW

MOBILE POWER PLANTS

**ENVIRONMENTALLY
RESPONSIBLE
SUSTAINABLE ENERGY
SOLUTIONS**





PROPOSAL SUMMARY



One (1) set of power plant including five (5) GE TM2500 mobile Power Plants with a steam turbine.

The units are trailer mounted modulars, and operational in a few days. The TM2500 are 35 MW capacity each, and will be run as one unit, with the steam turbine running off waste steam in a combined cycle (CC) configuration increasing efficiency and reducing the kwh cost.

The units are designed to run off multi-fuels, including biodiesel, ethanol, methanol, natural gas, thus reducing the risk of price increases in any one of the potential fuels.

FINANCIAL PROJECTIONS

At this time, with multi-year contracts, we can produce power with ethanol for about 3 cents per kwh.

Total Capacity: 35 MW each x 5 = 175 MW and 75 MW steam turbine

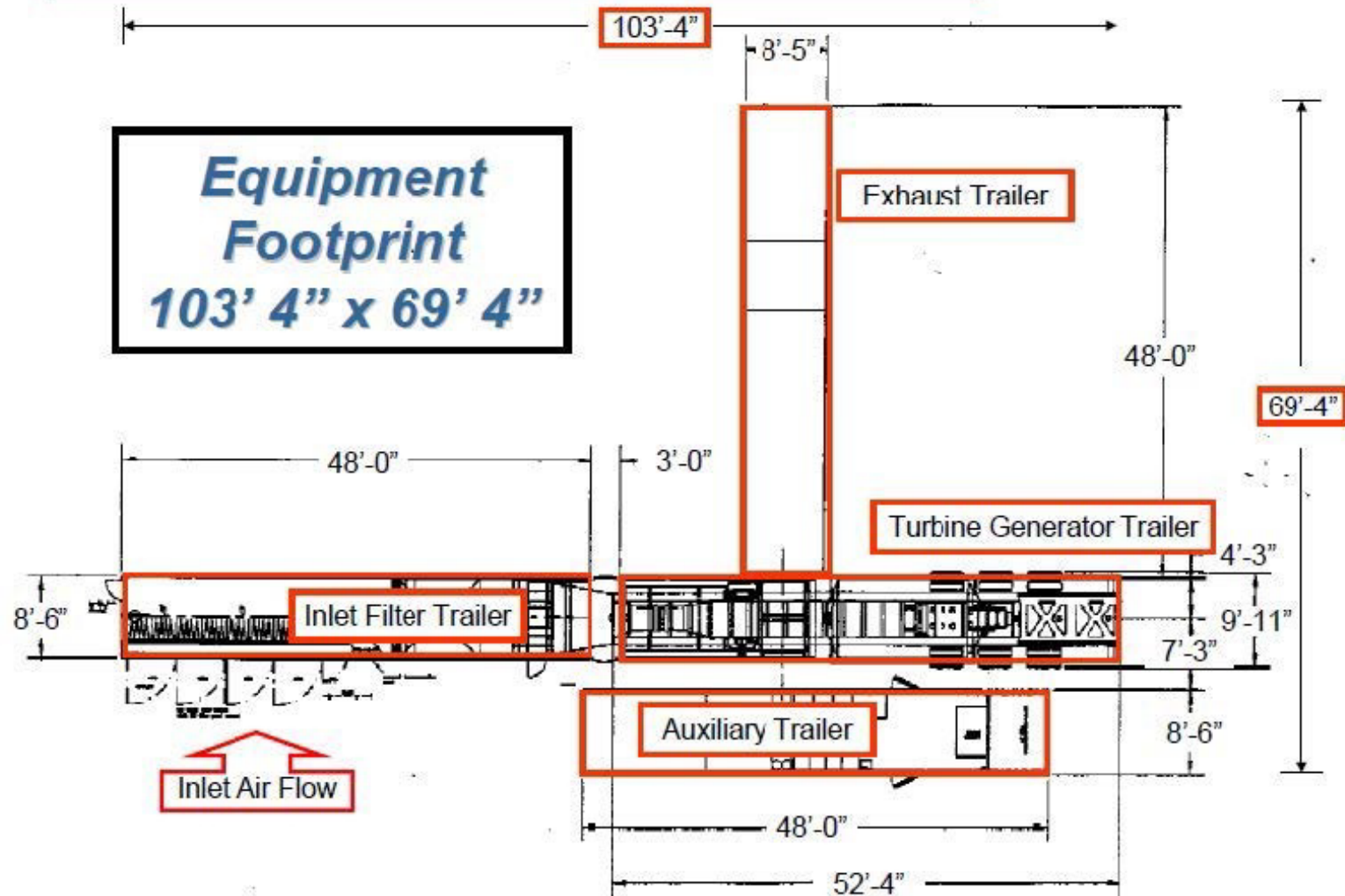
UNIT	Capacity	Cost per unit	No. of unit	Sub-total
TM2500	35MW	\$33,000,000.00	5	\$165,000,000.00
Steam Turbine	175MW	\$55,000,000.00	1	\$55,000,000.00
Contingent fees				\$30,000,000.00
TOTAL				\$250,000,000.00

TYPICAL WEIGHTS AND DIMENSIONS

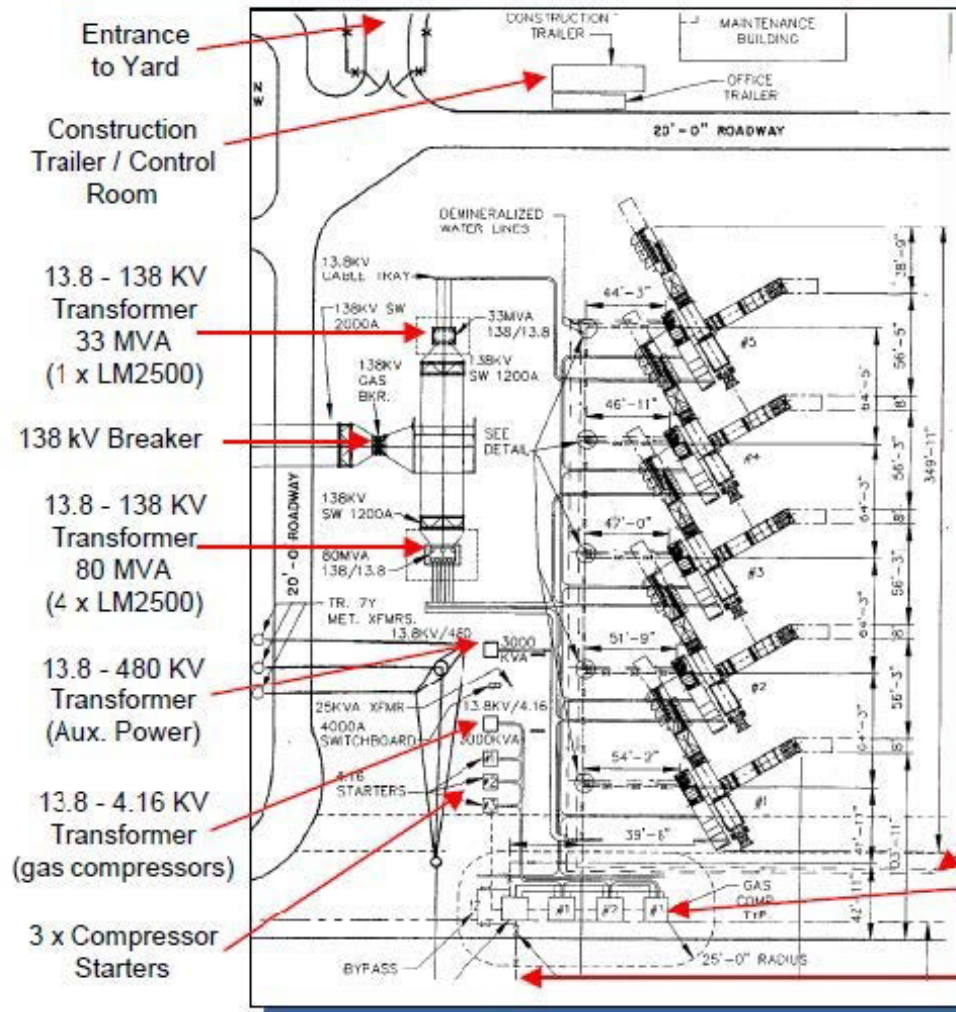


	Approx. Weight (lbs.)	L x W x H (feet)
Turbine Trailer ^{1,2}		
Without Stinger	90,145	55' L x 9.8' W x 13.2' H
With Stinger	95,139	69.6' L x 9.8' W x 13.2' H
Generator Trailer ^{1,2}		
Extendable Stinger set to EU	157,380	68.6' L x 9.8' W x 12.4' H
Extendable Stinger to US	157,380	76' L x 9.8' W x 12.4' H
Extendable Stinger set to CAN	157,380	84' L x 9.8' W x 12.4' H
With Cold Steel Version	161,822	Dependent on Stinger Setup
Control House Trailer ^{1,2}	47,490	41.7' L x 9.2' W x 14' H
Transportation Trailer ^{12,3}	49,435	43.2' L x 9.8' W x 13.6' H
Air Filter Assembly (including support bracket) ²	8,674	17.8' L x 8.3' W x 10.2' H
Switchgear	8,900	6' L x 9.4' W x 8.1' H
Generator 62-170ERT	84,878	19' L x 8.9' W x 7.2' H
Generator Ventilation	6,724	12.7' L x 8.4' W x 9.1' H
Control House	25,463	22.8' L x 8.3' W x 9.4' H
Ventilation Fan Assembly	4,530	10.3' L x 8.3' W x 7.9' H
Exhaust Stack	16,323	12.2' L x 8.3' W x 11' H
Crane ²	9,140	5.3' L x 8.3' W x 8.75' H
Generator Air Filters ²	1,600	4.4' L x 8.3' W x 8.75' H

Layout - Equipment Arrangement



Site Preparation / Arrangement (typical)



- Minimal site preparation required
 - Loading may require some foundation modifications
- Fuel, water, electrical connections all tie into Aux Trailers
- Low elevation profile (20 ft. max. height)

Demin Water Supply

3 x Electric Gas Compressors + Control Skid

Natural Gas Supply



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CUSTOMER INTERFACE REQUIREMENTS

Electrical

Customer required to supply 480 Volt, 60 Hz, auxiliary power to Motor Control Center main circuit breaker (450 kW) located in control room / Auxiliary Trailer

Operating load approx. 190 kW

Suitable ground grid and lightning protection

Natural Gas Fuel

Customer responsible to supply natural gas at 375 (+/-20) PSIG at a rate of 12,000 pph (200 mmbtu/hr or 6 mscf/day)

Must conform to GE Specification MID-TD-0000-1 (Natural Gas Fuel for GE Aircraft Derivative Gas Turbines in Industrial Applications.)

Liquid Fuel (Diesel)

Customer responsible to supply liquid fuel at 30 (+/-10) PSIG, up to 40 GPM (max.)
Must conform to GE Specification MID-TD-0000-2

Water for NOx Suppression

If desired, customer responsible to supply demineralized water at 15 PSIG (min.) up to 28 GPM (max)
Must conform to GE Specification MID-TD-0000-3

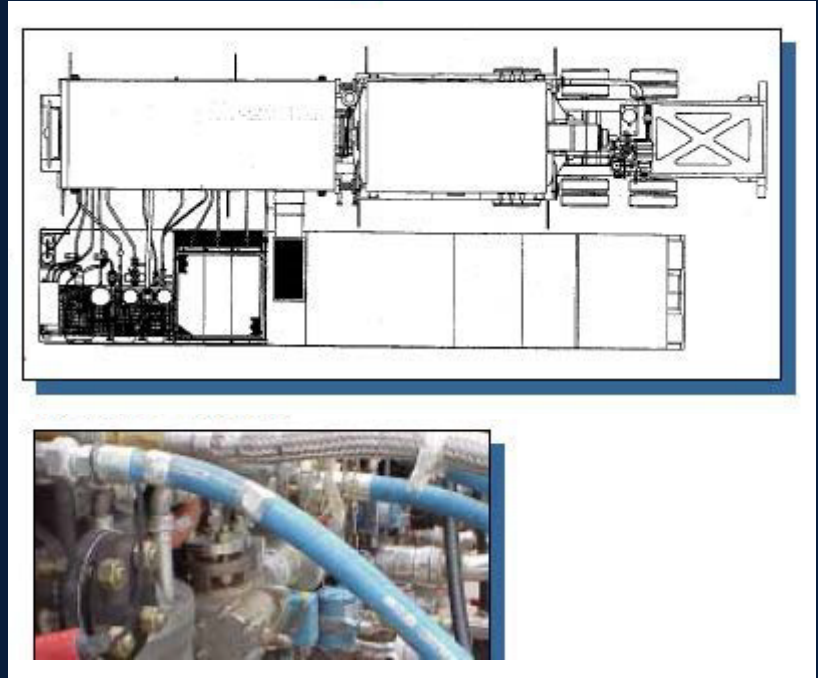
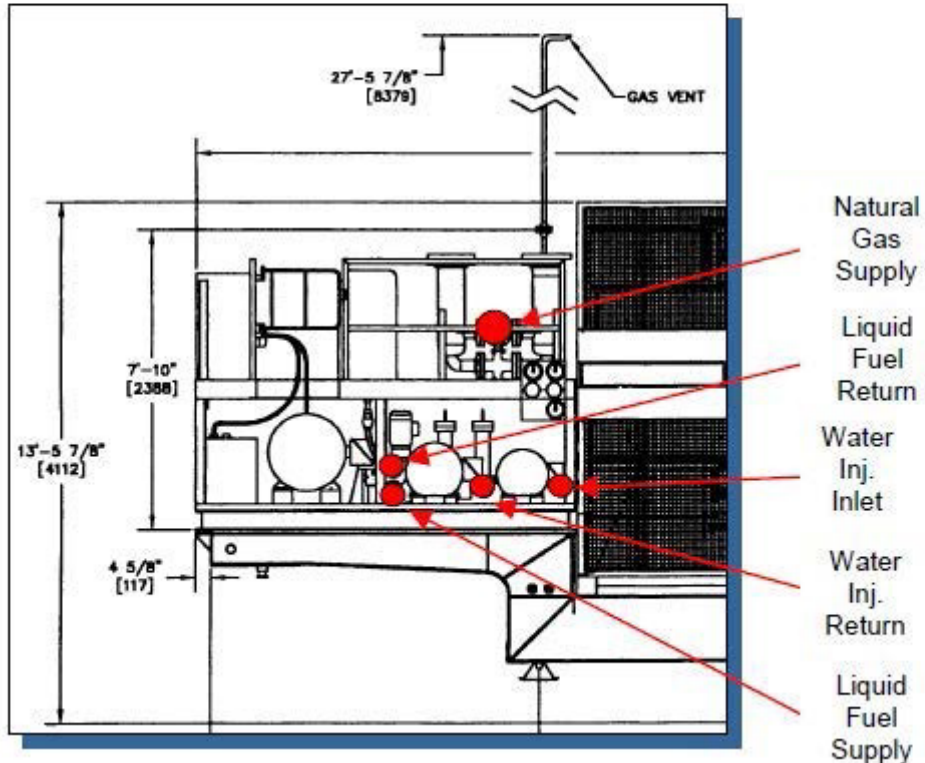
Foundation

Suitable foundation in a secure location



INTERFACE CONNECTIONS

- Quick disconnect lines between trailers
- All lines neatly stowed and preconnected where possible



- Designed for 3-day set-up where infrastructure is in place
- Drawings and detailed requirements allow for site preparation in advance of genset arrival





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