GEODYN™
SOLUTIONS

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

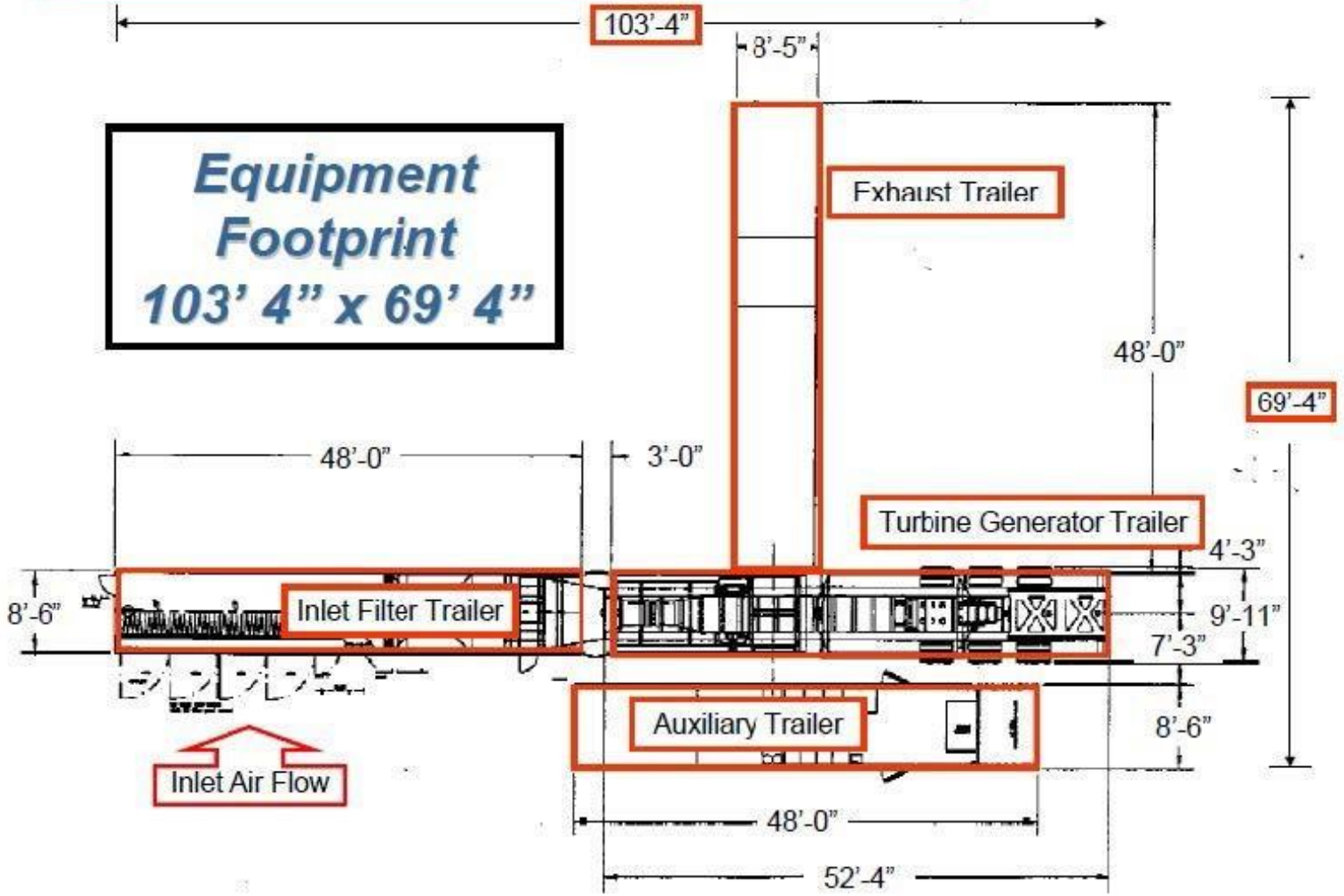
At this time, with multi-year contracts, we can produce power with ethanol for about 3 cents per kwh.
Total Capacity: 35 MW each x 5 = 175 MW and 75 MW steam turbine

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**

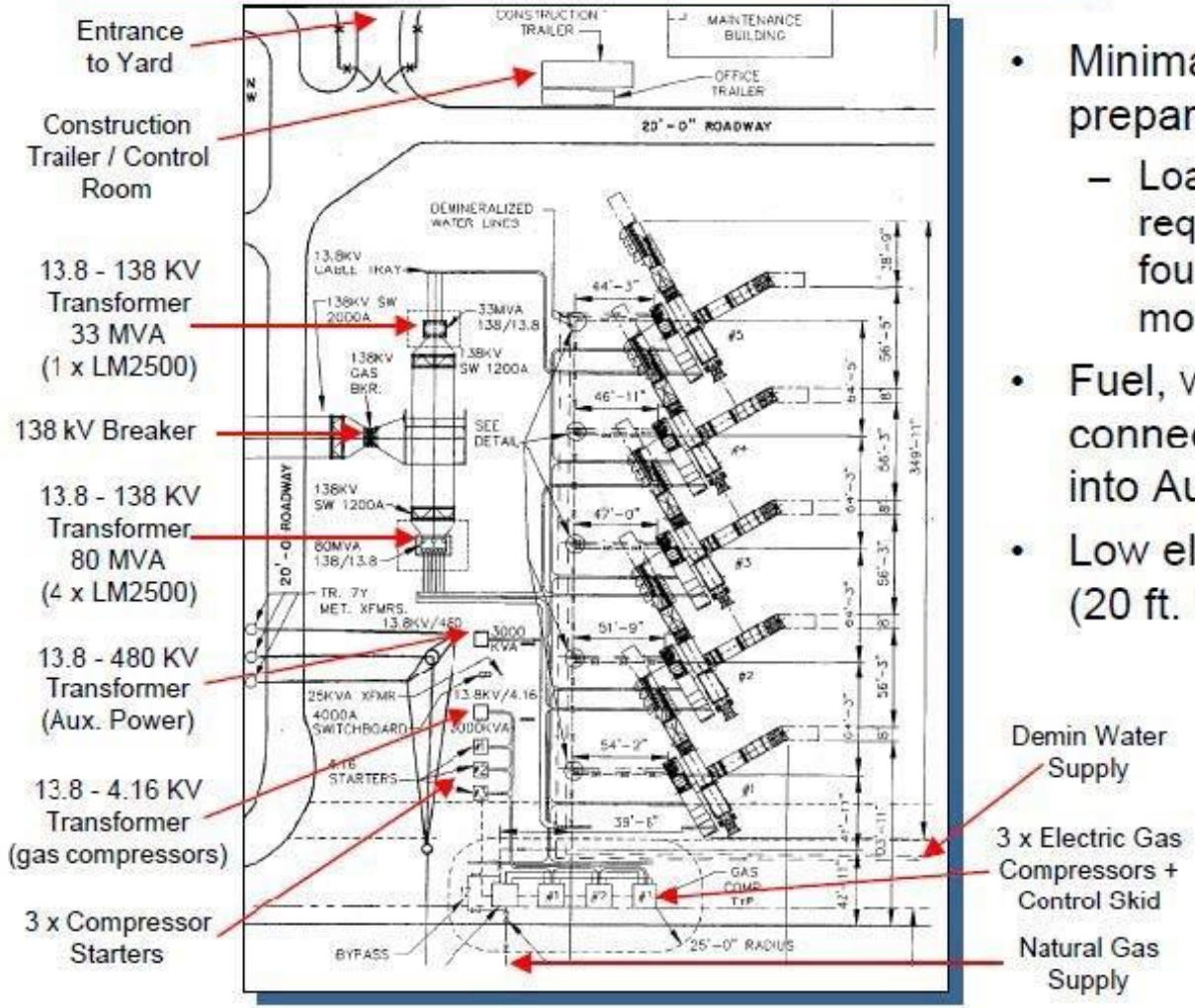
TYPICAL WEIGHTS AND DIMENSIONS

	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 Trailer12.3	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
Exhoust 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)

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.)

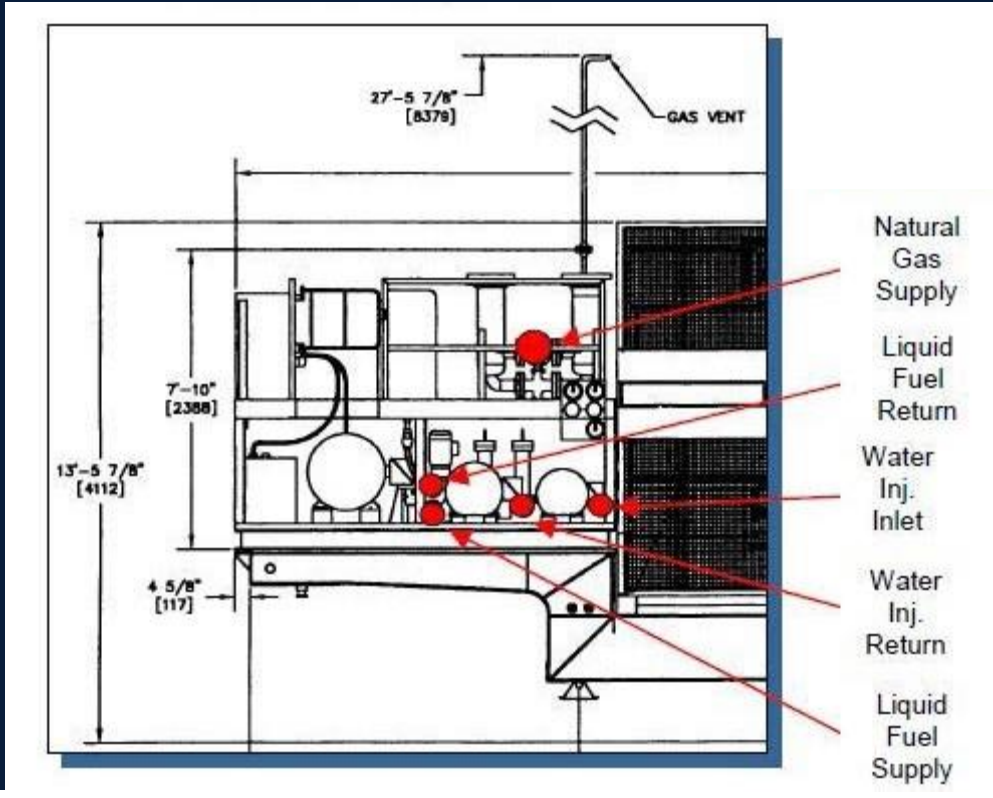
Liquid Fuel (Diesel)
Customer responsible to suppy liquid fuel at 30 (+/-10) PSIG, up to 40 GPM (max.)
Must conform to GE Specification MID-TD-0000-2

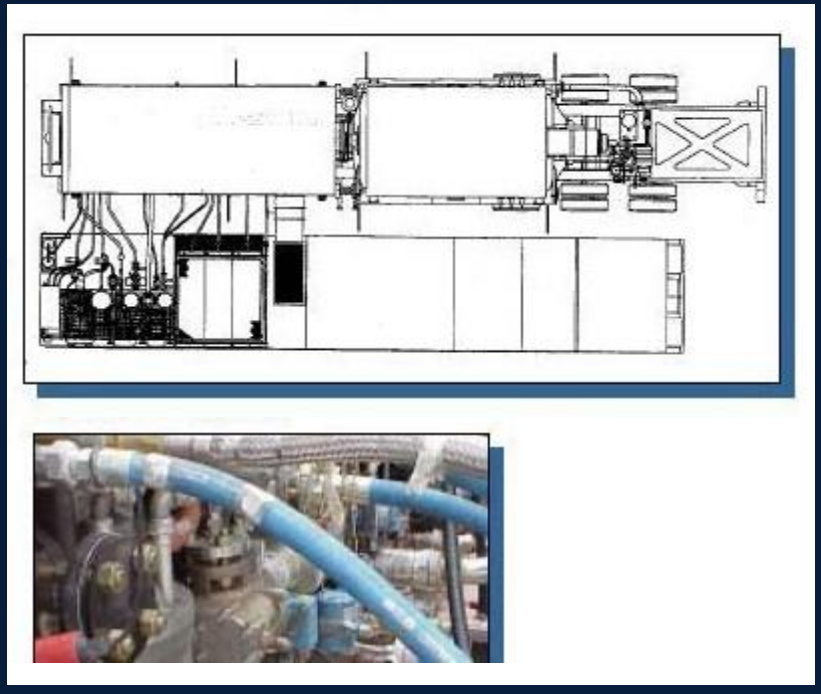
Water for NOx Suppression
If desired, customer responsible to supply demineralized water at 15 PSIG (min.) up to 28 GPM (max)
Must conform to GE Specification MID-TD-0000-3

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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