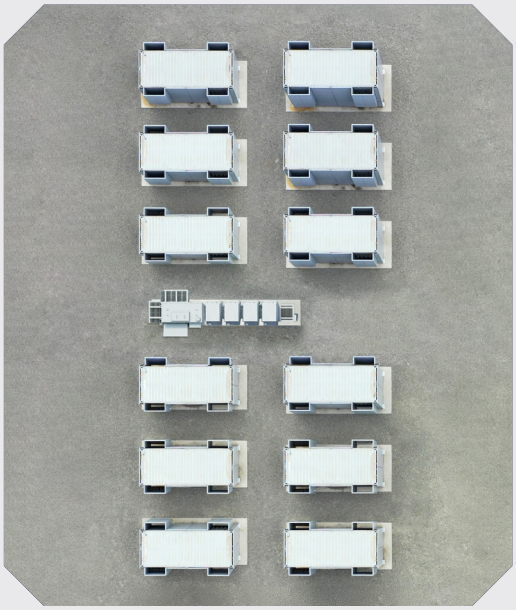
MAINSPRING LINEAR GENERATOR

Radically simple. Factory built.

The Mainspring Linear Generator runs on any fuel, is fully dispatchable, uses no water, and emits near-zero NOx. No other primary power solution can match its flexibility, affordability, and low emissions.

Mainspring offers a standardized 3 MW configuration featuring 12x0.25 MW Linear Generators, factory-integrated, skid-mounted inverters and an optional step-up transformer, with a consistent electrical architecture that accelerates deployment and lowers installed cost. Configure and scale to meet your unique capacity demands.



PERFORMANCE SPECS: MODEL NO. MSE 3; 3 MW CONFIGURATION

OUTPUTS[1]	Power (net AC)	3 MW
	Electrical	3-phase AC, 50/60 Hz 400/480 V natively 12.47, 25, or 34.5 kV with transformer
INPUTS[2]	Fuels	Any blend of biogas, natural gas, hydrogen, and propane
	Input pressure	5–20 psig
	Water consumption	None
EFFICIENCY[3]	Electrical (LHV, net AC)	46%
	Heat rate (HHV, net AC)	8,233 BTU/kWh
EMISSIONS[4]	NOx	<1.5 ppm (<0.05 lb/MWh)
PHYSICAL	Unit weight	20 tonnes
	Unit dimensions	20.5'L x 8.5'W x 9.5'H
	Skid weight	10 t; 20 t with transformer
	Skid dimensions	31.0'L x 4.5'W x 9.0'H
	3 MW block dimensions	111.0'L x 60.0'W
	Power density	Up to 18 MW per acre
ENVIRONMENT	Temperature range	-30° to 50° C
	Humidity	0 to 100%
OPERATIONS	Power output range	0 to 100% power output
	Load soft starts	Yes
OTHER	UL 2200 units	Remote monitoring
	UL 1741 SB grid-tie inverter	Secure customer portal
	Compliant with CA Rule 21	Modbus interface
	Compliant with NOM Mexico	PRC 029 compliant

1. Rated capacity may vary by fuel type. 2. Refer to Mainspring fuel specifications for details. 3. Measured according to ASME PTC 50 at 15° C and 1 atm on natural gas and biogas. Rated efficiency is inclusive of 1% assumed efficiency reduction for inverter and line losses to the skid and may vary by site configuration and/or fuel type. 4. Products comply with emissions limits in South Coast AQMD.

PRODUCT FEATURES

01 Fuel flexible

Seamlessly switch between natural gas, RNG, biogas, propane, and hydrogen.

02 Dispatchable

Quickly ramp output to meet variable workloads and enable grid independent operations.

03 Low emissions

Produce electricity with near-zero NOx and meet even the most stringent air quality standards.

04 Modular

Enable faster deployment timelines with factory-built units that are quick to install.

05 Low maintenance

Minimize downtime with modular design, only two moving parts and no oil.

Mainspring

For more product information, scan the QR Code or visit

MAINSPRINGENERGY.COM