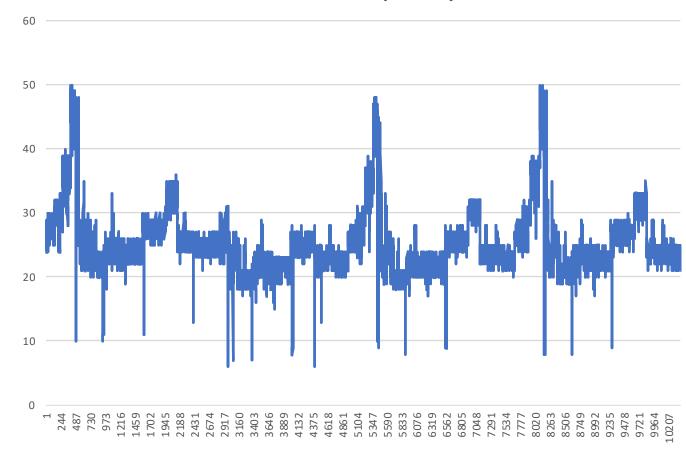


The Advantages of Hybrid Power

Operational Energy Profiles Favor Hybrid Technology

Typical Generator Load Profile % Load Capacity



Generator capacity can be reduced by 50% with battery providing peak demands



Moser Energy Systems HybridGen

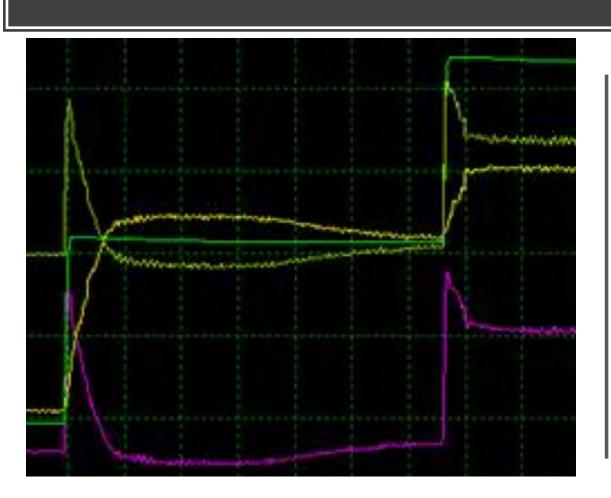
- 500kVA bi-directional ruggedized inverter
- 120kWh 2C Li-ion battery (3C peak)
- Integrated proprietary controls
- Power distribution
- Generator integration (AC-coupled)
- Extreme-duty enclosure
- Onboard HVAC
- On-board fire suppression

HYBRID GEN CAPABILITY

- Provides Plug-In Integration of:
 - ✓ Expandable energy storage
 - ✓ Renewable energy resources
 - ✓ Engine-driven generators
 - ✓ Commercial utility or shore power



Seamless Integration of Generator and BES





Mode of Operation	Generator	Inverter	Battery
Silent watch	Off	Active	Charged
Silent run	Off	Powering	Discharging
Gen Mode	Powering	Active	Recharging
Hybrid Mode	Powering	Powering	Discharging

- "Silent Watch" ready to provide instantaneous power
- "Silent Run" power provided by the battery and inverter only
- "Gen Mode" generator supports load and charges battery
- "Hybrid Mode" generator and inverter combine to provide peak power

Problems Solved with HybridGen

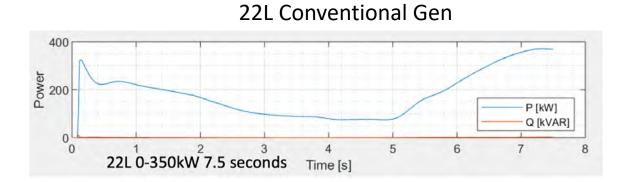
REDUCED EMISSIONS BY AS MUCH AS 50%

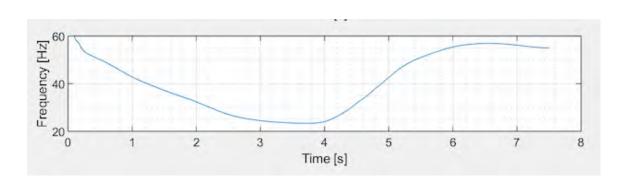
SUPERIOR POWER QUALITY AND POWER DELIVERY

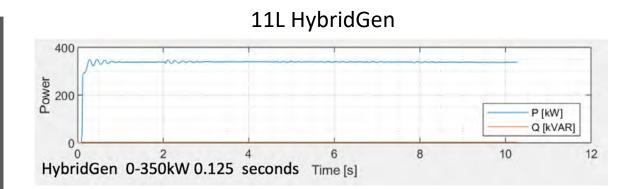
IMPROVED EFFICIENCY

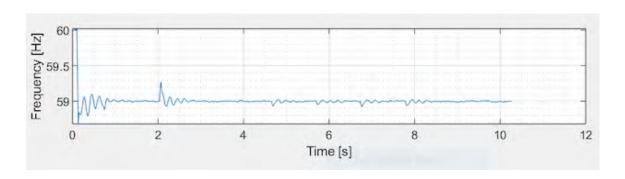
ENHANCED RESILIENCY

0-350kW Performance Power Comparison

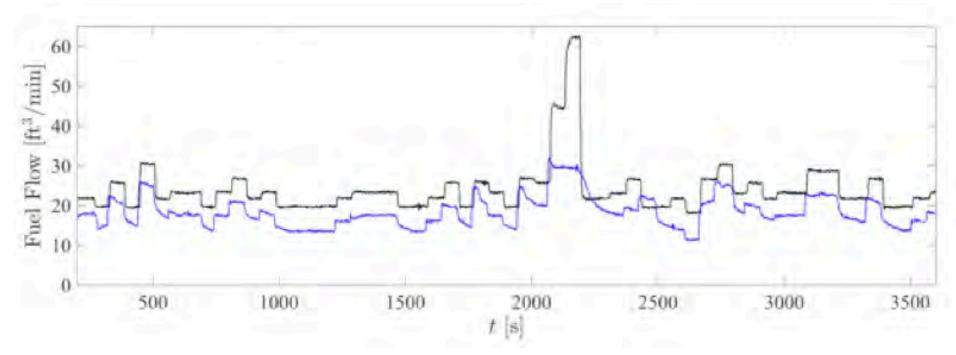




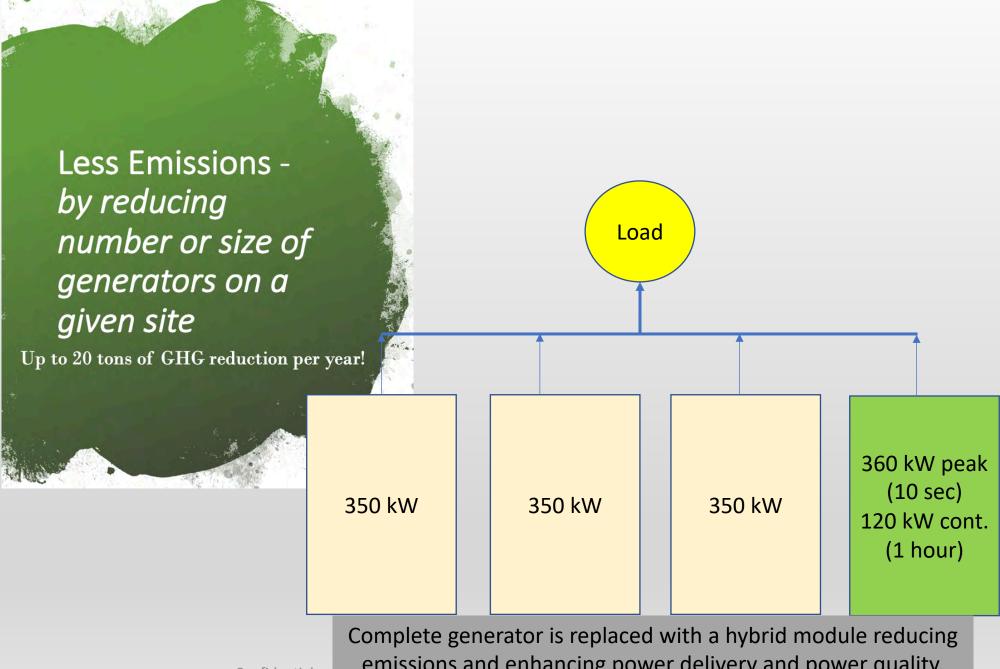




40% Improvement In Fuel Efficiency Over Random Load Test



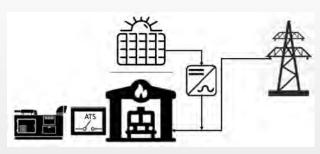
22L – Black line showing fuel flow of NG11L HybridGen – Blue line showing fuel flow of NG

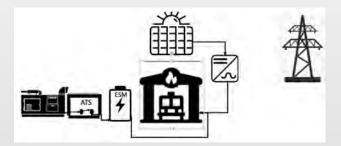


emissions and enhancing power delivery and power quality.

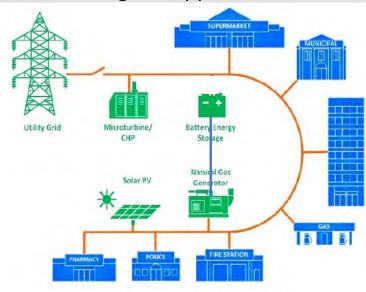
Confidential

Critical Power Sites





Microgrid Support



HybridGen Applications

Military FOB's

O&G

Grid Services

Entertainment and Events



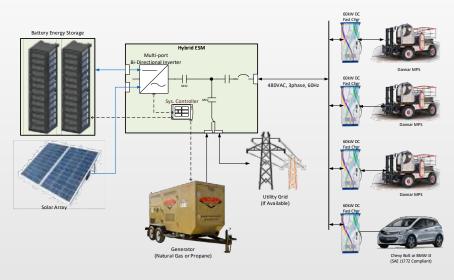
Construction Sites

FEMA

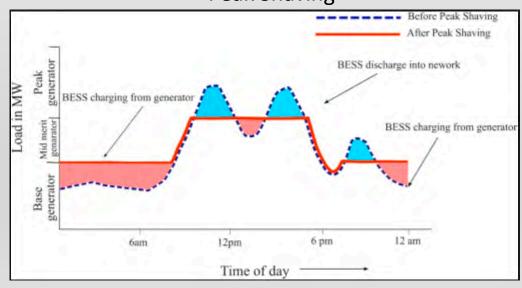
Remote Outposts

Renewable Integration

Hybrid EV Charging



Peak Shaving







Reduced emissions by as much as 50%



Superior power quality and power delivery



Improved efficiency



Enhanced resiliency



Hybrid Generator Solutions