

## Oncore Energy Hydrogen Fuel Cell Power Generators

**Clean, Safe, and Reliable Alternative to Diesel/Gas**  
Power your home in an emergency and provide reliable energy independence.

### **Built in Hydrogen Storage with Established Hydrogen Refilling Network**

Hydrogen storage is remotely monitored using proprietary cloud-based telemetry for scheduling refilling.

### **On-Demand Power**

Automatically starts when power outage is detected due to any number of reasons including storms, fires and rolling blackouts. No more losing power to your home. Keep your A/C, lights, water supply, hot water heater, and internet powered up.

### **Never be left in the dark!**

- Reliable modular design
- Seamlessly tie-in with the grid and solar power system
- No carbon emissions
- Quiet operation. Use for backup power
- Peace of mind



## About Us

Oncore Energy, a BWR Innovations Company, is the premier provider of hydrogen fuel cell energy in North America. We are able to power homes, businesses, and government entities facilities with clean, green power.

## Hydrogen Generators

- Patented cloud based controlled hydrogen fuel cell microgrid
- Scalable, modular, configurable fuel cells providing uninterrupted power
- Electricity derived from Hydrogen

**Internal**



**External**



- Options for a 4 kw and 8 kw Internal and External units sufficient for an average home
- A building block for a virtual power grid.

**Model Numbers**

**HYDROGEN GENERATORS**

**BRONZE**

Internal Unit comes in 4 kW, 8 kW

OHB INT 4  
OHB INT 8

External Unit comes in 4 kW, 8 kW

OHB EXT 4  
OHB EXT 8

**MICOGRID - Hydrogen Production and Fuel Cell**

**GOLD**

Internal Unit comes in 4 kW, 8 kW

OHG INT 4  
OHG INT 8

External Unit comes in 4 kW, 8 kW, 12 kW

OHG EXT 4  
OHG EXT 8  
OHG EXT 12

**Oncore Bronze and Oncore Gold Hydrogen Generators**

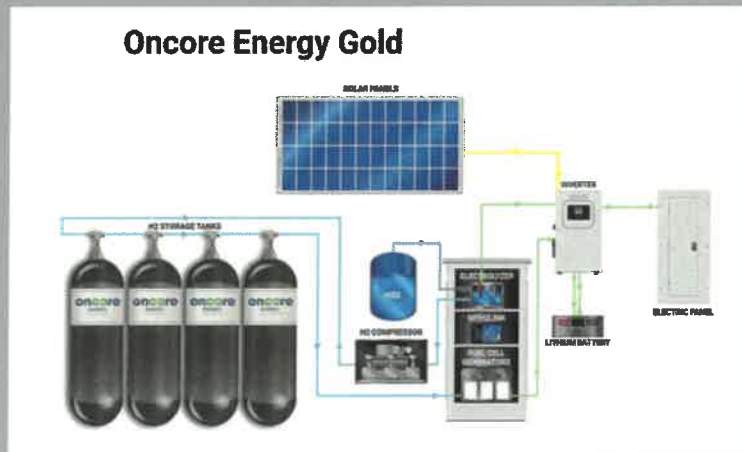
The key difference between Oncore Bronze and Gold option is the Gold unit is the ability to convert extra energy from solar or wind into storable hydrogen. It is the same hydrogen fuel cell generator and microgrid system, BUT with a compressor and electrolyzer (a tool to convert electricity to hydrogen).

**Oncore Energy Bronze**



Primary users are those who DO have a source of renewable energy on the property (solar panels, windmills, etc.).

**Oncore Energy Gold**



## Model Numbers

### Mobile Units

#### **BRONZE**

Mobile Unit  
comes in 4 to  
40 kW

OHB MOB 4  
OHB MOB 8  
OHB MOB 12  
OHB MOB 16  
OHB MOB 20  
OHB MOB 24  
OHB MOB 28  
OHB MOB 32  
OHB MOB 36  
OHB MOB 40

## Oncore Energy Mobile Units

Clean, mobile power units that can be deployed anywhere that mobile electricity is needed. This will comply with California clean energy requirements.

- Ranging from 4 kW up to 40 kW options
- Telemetry for operation, performance, maintenance, and management
- Hydrogen storage tanks that can be refilled
- Self-contained portable unit (trailer)
- Reconfigurable as needs change



## Model Numbers

### HYDROGEN GENERATORS

#### **BRONZE**

Comes in 100 kW  
to 1000 kW

Item numbers:  
OHB COM 100  
OHB COM 200  
OHB COM 300  
Up to  
OHG COM 1000

### MICOGRID Hydrogen Production and Fuel Cell

#### **GOLD**

Comes in 100 kW  
to 1000 kW

OHG COM 100  
OHG COM 200  
OHG COM 300  
Up to  
OHG COM 1000

## Oncore Energy COMMERCIAL

**Oncore Energy Commercial hydrogen generators are focused on the smaller manufacturing, commercial and retail markets with a focus of 50 kW up to 1MW of power.**

- Ranging from 100 kW to 1000 kW
- Built to support commercial operations
- Stackable/modular/reconfigurable for any operation size.
- Perfect for 20ft-40ft Conex containers including truck/trailer boxes (53 ft)
- Stationary or mobile options
- Peak energy charge reduction
- Multiple sourcing of electric power in real time
- Elimination of fossil fuel powered backup generators
- ESG benefits for larger companies
- Take advantage of multiple tax credits and benefits



# OnCore Bronze™ Specifications

<b>Performance</b>	Maximum continuous Power	4 kW	8 kW
	Output voltage	48 VDC	
	Emissions	Water vapor in warm exhaust air. No CO, CO <sub>2</sub> , NO <sub>x</sub> . Contains trace levels of hydrogen well below safety levels.	
	Remote Monitoring	Cloud-based telemetry	
<b>Physical</b>	Max dimensions	76 x 52 x 39 (WxHxD, in)	
	Mass (approx)	~250 lbs	
	Connectors, hydrogen	3/8" NPT connection	
	Connectors, communications	WiFi, Ethernet via RJ45	
<b>Fuel</b>	Connectors, input voltage	48 VDC	
	Fuel Type	Hydrogen gas, Type 1, Grade E and Category 3 hydrogen fuel per ISO 14687-3:2014(E).	
	Fuel pressure	650 mbarg +/- 150 mbarg	
	Fuel consumption	Less than 70 g per kWh	
<b>Certifications</b>	Fuel purity	99.9% or better (TBD standard)	
	Certifications		
<b>Operations and Maintenance</b>	Automatic start/stop	Standard	
	Manual start/stop	Available	
	Start-up time	Less than 10s (based on normal ambient conditions)	
	IP rating	IP20	
<b>PEM Fuel Cell Power Module</b>	Numbers of modules in parallel	1	2
	Rated net power per module	4kW @ 48V (at 25° C, BoL)	
	Coolant	None (cathode air cooled)	
	Mass (approx.)	44 lbs. each	
	Dimensions	7U 19in. rack mountable	
	Certifications	CE & FCC	
	Operating temperature range	-5° to -40° C (power derate < 30% RH)	
	Altitude	0-4000m (power derate at > 1500 m)	
	Operating humidity range	10-90% RH	
	Storage temperature	-40° to +70° C	

More Information on building a premium hydrogen fuel cell microgrid, visit:

[www.OncoreEnergy.com](http://www.OncoreEnergy.com)

A BWR Innovations Company

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