150 KW HYDROGEN POWERED MICROGRID

FRONT VIEW
(8' X 10')

KCE's mobile microgrid provides clients 150 kW's of power with no local emissions or grid connection.

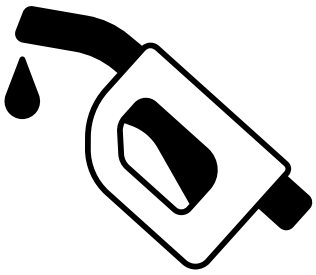
On-site hydrogen production and fuel cells are used to produce electricity for EV charging and power generation.

A 5k gallon atmospheric fuel tank provides 36 MWh of energy.

The microgrid meets NFPA 2 requirements and can also support H2 fueling demand.

BETTER SOLUTION THAN YOUR DIESEL GENERATOR...AND CLEAN

LOW OPERATIONS COST

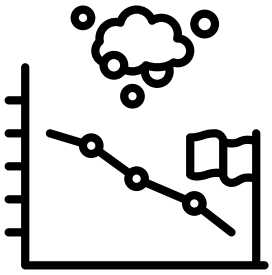


Fuel costs of ~$2.00 gallon

CUSTOM AND SCALABLE

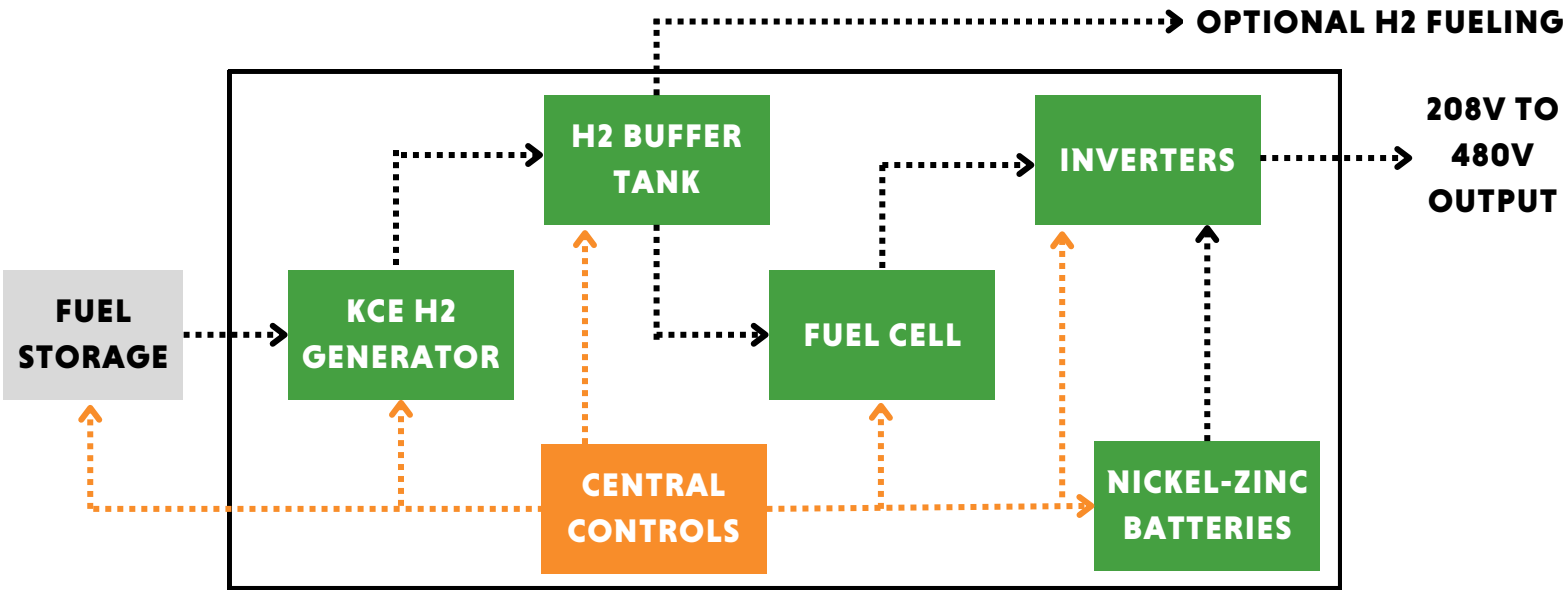
Only pay for power you use

NO LOCAL EMISSIONS



Eliminate harmful emissions

HOW IT WORKS



EQUIPMENT

KCE H2 Reformer	230 kg/day
Low Pressure Buffer Tank	120 Gallons
Fuel Cell Module	185 kW Capacity
Battery Module	48 to 96 kWh (Safe, Sustainable Nickel-Zinc)
Inverters	208 - 480V 3-Phase Output
5K Gallon Liquid Fuel Tank	Holds 36 MWh of Energy

PERFORMANCE

Hydrogen Quality	Fuel Cell Grade: ISO (14687:2019)
Net Power	50 to 150 kW Consistent
Max Power	~300 kW w/ Batteries
Power Required	Grid Independent or 20 kW
Per kg H2 Fuel Consumption	2.4 gallons methanol and 1.2 gallons of water
Local Emissions	No NOx, SOx, or Particulates

SAMPLE LIST OF SAFETY AND COMPLIANCE

General Guidelines	NFPA 2
Hydrogen Reformer	ANSI / CSA FC5 (Similar to ISO 16110-1-2007)
Process Piping	ASME B31.3, B31.12, and Section 8 VIII
Buffer Tank	CGA Publication PS33
Fuel Cell	IEC-62282-5-100 & -500
H2 Venting	NFPA 2, 853, 54, & GCA Publication G5.5

CONTACT INFORMATION
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