



Model Scenario: ReGenerator for First Responders - Insurance Industry

A major storm is approaching the coastline of a southern U.S. state. A nationally recognized insurance company is readying teams of field agents to respond to the thousands of expected claims. Some of their policyholders will lose everything—they will rely on their insurance company to help them rebuild their lives.

The company's disaster response team knows from experience that providing their field agents with reliable power is a challenge. The electric grid will probably be down for weeks; perhaps months in more remote locations. While diesel generators are available, fuel will be in short supply. During the last emergency, most available diesel was directed towards emergency services and the adjusters were unable to power their laptops or phones for days. Too much time was spent waiting for fuel and bottled water; despite improvements made since then, cellular service may also be down.

The disaster response team needs enough power to run laptops, phones and a satellite dish, as well as basic lighting so they can work through the evening. Many times they must work out of their cars, but with a dependable source of clean power, they'll be able to do more, faster, and in more comfortable conditions.

REQUIREMENTS

The disaster response team needs power for the first few weeks after the event. Their ideal solution:

- Provides power for laptops and communication gear
- Powers some lighting with a water purification option
- Is rugged enough to work in the field
- Does not rely on fuel deliveries or power from utilities
- Is easy enough for the adjusters to use without training

TACTICAL MOBILE POWER

Trailer-mounted ReGenerator H-Series units can be operational in minutes.



POWER REQUIREMENTS

The table below describes how much power is needed and for how long:

Load	Units	Watts	Hours per Day
Laptop	12	15	16
Cell / Satellite Phone	12	5	16
Wi-Fi	1	15	24
Satellite Dish	1	26	24
Lights, CFL	4	15	6
Water purifier	1	150	4
Total power needed:			
Est. Daily Load,		5.7 kWh	
Solar Production, 1 Week		40.4 kWh	

Model Scenario: ReGenerator for First Responders - Insurance Industry (continued)

SOLUTION: THE REGENERATOR H3000

A ReGenerator H3000 follows the disaster response team from city to county, towed by a pickup truck on a small trailer. The H3000 can generate enough power for all the team's equipment using its integrated solar panels alone, with enough reserve power in its battery bank to operate for several days through the harshest weather. Wherever the team operates, they can rely on the ReGenerator to provide 24/7 power for their laptops, satellite uplink and phones – and any field agent can turn it on and plug in.

When they arrive at a location with intermittent grid power, they take advantage of the grid connection by continuing to run their equipment through the H3000 while charging the ReGenerator unit from a wall outlet – the H3000's digital-quality inverter protects their gear from the surges and brownouts of an unstable grid. If there is access to a diesel generator, they can plug it into the ReGenerator and store the power. And if needed they can process up to 2,500 gallons of clean water per day using the ReGenerator's water filtration accessory.



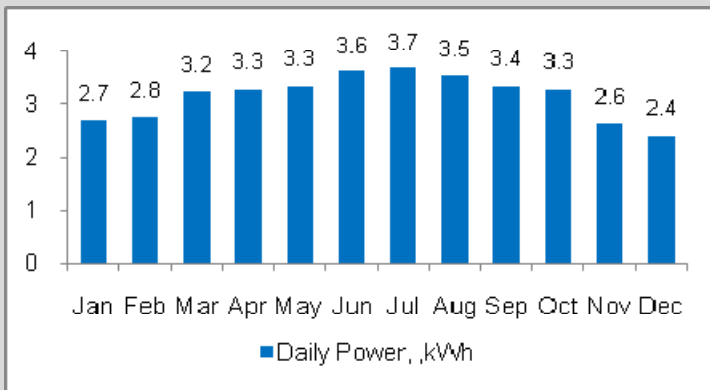
Recommended Configuration	ReGenerator H3000
Power Rating	3,000 VA of digital-quality AC power 6,000 Watts of peak power
Integrated Solar	720 W of rated Solar
External Solar	Option to quick-connect to 1.2 kW of Solar or connect up to 1.8 kW of Solar through 120V AC input
Wind Generation	Option to connect a wind turbine up to 1.2 kW
AC Power Output	120V / 240 V AC at 60 hz 8 x 110V AC GFCI Outlets
DC Power Output	4 x 12V DC Outlets
Generator Support	Generator Auto-start, up to 12 kW
Storage	12 x 180 Ahr AGM batteries 25.9 kWh of storage
Control & Monitoring	Window desktop client Wireless web monitoring using GSM / GPRS
Weight	2,490 lbs / 1,129 kG
Transport	Fixed to a DOT-compliant trailer. Can be towed by most light-duty trucks.

REGENERATOR POWER PRODUCTION

The graph below shows the average power this ReGenerator configuration can deliver each month and the amount of power needed to run the required equipment.

Houston, TX USA 29 45' N 95 42' W

Monthly Power, kWh	AVG	MIN	MAX	ANN
H3000 / 1200W Solar	3.15	2.42	3.67	1148



H-Series Avg Monthly Power Generation Houston, TX USA

For more information:
www.thezerobase.com
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