## **Generators Presenter: Carl Wahl**



5000W 240V 30A twist lock. Recoil start. 3 year warranty and free lifetime technical support. \$773 with free shipping Typical gasoline-powered portable gen-set.

### - Portable Generators -

#### comparing fuel sources

most to least popular: gasoline, liquid propane, diesel, natural gas lowest to highest generator costs gasoline, natural gas, liquid propane, discol

quietest to loudest operation: liquid propane, natural gas, gasoline, diesel

Diesel

least to most maintenance:

diesel, gasoline, natural gas, liquid propane

lowest to highest fuel cost:

natural gas, gasoline, liquid propane, diesel Which fuel is best?

least to most flammable:

diesel, natural gas, liquid propane, gasoline least to most carbon monoxide

diesel, liquid propane, natural gas, gasoline

most durable generator to least: diesel, gasoline, liquid propane, natural gas

Liquid Propane

fuel efficiency: diesel, gasoline, liquid propane, natural gas

most to least green:

natural gas, liquid propane, diesel, gasoline

#### Occidental Area Power Outage Gasoline Availability

Only 4 gas stations of the 9 nearest us can provide gas during power outages:

- 76 Station at Occidental Rd. at Hwy. 116
- 76 Station in Guerneville on Main St. across from Safeway.
- MD Gas. 16430 Main Street, Guerneville.
- 76 Station in Bodega Bay (Hwy. 1 across from Tides restaurant)

#### The two classes of home generators

#### A. The portable generator.

#### Four types of portable generators to consider:

- 1. Gasoline fueled
- 2. Dual fueled (gasoline and propane)
- 3. Inverters
- 4. Parallel-linked generators (gasoline or dual fueled)

#### B. The stationary/permanent/standby generator.

#### There are two types:

- 1. Methane (natural gas) fueled
- 2. Propane fueled

C. To determine your basic home power needs, start with these three questions:

#### 1. Do you use city or well water?

Well pumps require a larger 240-volt generator (rated 3800 watts or above).

# 2. Is your heating system electric, heat pump, or gas forced air?

Gas forced air systems can get by with a very small generator – as little as 2500 watts. The power needed is based on the size of the furnace fan motor. (See below for details.) Electric furnaces and heat pumps typically need 15,000 watts or more to run and cannot be powered by a portable generator.

#### 3. Is your hot water heater electric or gas?

Gas heaters use less power – as little as 2500 watts. Electric heaters often require at least 4500 watts.

#### What circuits to power during a long power outage?

#### This is a matter of personal preference. Consider:

- Refrigerator/freezer
- Receptacle(s) for any powered medical devices
- Microwave oven
- Pump (submersible or jet) for your water storage tank.
  If no storage tank, the well pump should probably be powered.
- At least one extra 120V receptacle (for computer, phone recharging, lamps, etc.)
- Electricity to one bathroom
- Optional: Water heater (tankless or similar)