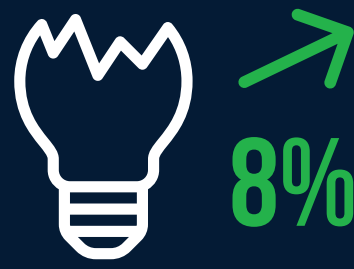


# THE IMPORTANCE OF PROPER BACK-UP GENERATOR MAINTENANCE

## OUTAGES - BY THE NUMBERS



In the past 10 years, there's been an **8% increase in power outages** in the U.S.



**93% of Americans** have had at least **one power outage** in the last year.



Power outages lasted on average at least **1 - 8 hours**.

## BACK-UP GENERATOR MAINTENANCE CREATE A CHECKLIST

### WEEKLY

# 1.

- Run the generator (typically no-load, automatic transfer switch exercise cycle).
- Verify that the unit ran and has no alarms or warnings.
- Ensure adequate fuel levels.
- Ensure that the generator is in "Auto" mode, for automatic startup.
- Check that the circuit breaker is closed.
- Make sure there are no fluid leaks.

### MONTHLY

# 2.

- Check fluid levels when the engine is cool.
- Make sure surrounding area is clean & debris free.
- Check the battery charger.
- Check for corrosion on battery terminals or wiring.

### BI-ANNUAL (SCHEDULE W/CERTIFIED TECHNICIAN)

# 3.

- Inspect the enclosure – make sure there aren't rodents making homes.
- Check the battery electrolyte level and specific gravity.
- Check battery cables and connections.
- Inspect drive belts.
- Inspect the coolant heater.
- Check coolant lines and connections.
- Check for oil leaks and inspect lubrication system hoses and connectors.
- Check for fuel leaks and inspect fuel system hoses and connectors.
- Inspect the exhaust system, muffler and exhaust pipe.
- Check and clean air cleaner units.
- Inspect air induction piping and connections.
- Inspect the DC electrical system, control panel and accessories.
- Inspect the AC wiring and accessories.

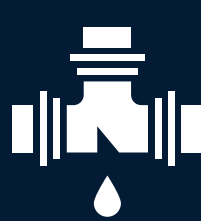
### ANNUAL (SCHEDULE W/CERTIFIED TECHNICIAN)

# 4.

- Change oil and filter.
- Change the fuel filter.
- Change the air filter.
- Clean the crankcase breather.
- Change spark plugs.
- Check coolant concentration.
- Flush the cooling system (as needed).
- Perform load bank testing.
- Fuel testing & reconditioning (diesel-fueled units only).
- Remove water from fuel tank (diesel-fueled units only).

## WHY DO YOU NEED A GENERATOR?

### POTENTIAL COSTS TO HOMEOWNERS



**\$10,000**  
FROZEN/BURST PIPES



**\$21,000**  
FLOODED HOUSE



**^ \$30,000**  
MOLD REMOVAL



**^ \$750**  
FOOD LOSS



**\$120/NT**  
ALTERNATIVE SHELTER

