

EMERGENCY POWER PLANNER:

Your PRACTICAL GUIDE to restoring electric power and protecting your business during utility outages.

When the power goes down, you want it back—fast. Preparation for power failure is a must, and a contingency plan is an essential tool. With a solid contingency plan in place, you'll know what to do and whom to call to restore your power as soon as possible, to keep your business functioning and your revenue stream flowing.

This Emergency Power Planner will guide you and your team through the basic steps of building a contingency plan. The checklist format will help you cover the key elements quickly and easily. To fill in the details, consult with an established supplier of rental power generating equipment, supplies and service.

Sooner or later power outages affect everyone. Don't wait for the inevitable to happen. The time to plan is now. And Carolina Cat is ready to assist you.

Carolina Cat

9000 Statesville Rd.

Charlotte, NC 28269

Carolinacat.com/power-generation/power-rental

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Step 1: DETERMINE YOUR POWER REQUIREMENTS. In a utility outage, you can provide power for your entire facility and equipment, or for critical loads only. Your emergency standby generator powers only life-safety equipment required by code. After that, you must choose which loads are critical and which are not:

- | | | | |
|---|----------|--------------------------------------|----------|
| <input type="checkbox"/> Production machinery | _____ kW | <input type="checkbox"/> Pumps | _____ kW |
| <input type="checkbox"/> Computers and servers | _____ kW | <input type="checkbox"/> Other _____ | _____ kW |
| <input type="checkbox"/> Process controls | _____ kW | <input type="checkbox"/> _____ | _____ kW |
| <input type="checkbox"/> Plant and office lighting | _____ kW | <input type="checkbox"/> _____ | _____ kW |
| <input type="checkbox"/> Heating, ventilating, air conditioning | _____ kW | | |
| <input type="checkbox"/> Compressed air systems | _____ kW | | |
| | | TOTAL | _____ kW |

Step 2: PLAN FOR THE LOGISTICS OF DELIVERY AND OPERATION. Your equipment supplier must be able to deliver and park the generator set, so that it is easily accessible for connecting, operating, servicing and fueling. Planning considerations must include:

- | | |
|---|--|
| <input type="checkbox"/> Environmentally sound location away from drains, work areas and residences | <input type="checkbox"/> Identification of connection points |
| <input type="checkbox"/> Location with adequate surrounding open space | <input type="checkbox"/> Designated access route for delivery |
| <input type="checkbox"/> Location away from traffic, trees and obstructions | <input type="checkbox"/> Opening for cable access to the building |
| <input type="checkbox"/> Level, paved area for parking | <input type="checkbox"/> Planned route for cable inside the building |
| | <input type="checkbox"/> Security fencing |

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Step 3: SELECT APPROPRIATE GENERATOR SET FEATURES. Choose from a variety of features to suit your site's specific requirements, including:

- Sound attenuation. Ask for ratings below 92 db(A) at full load. Ratings as low as 70-72 db(A) are available.
- Auto start-stop capability. Automatically starts a rental unit if a standby unit goes down.
- Vertical radiator and exhaust discharge. Directs discharges up and away from buildings and people. Important in populated or high-traffic areas.
- Electronic governor. Necessary for critical loads that cannot tolerate frequency fluctuation (computers, motor-driven equipment, machines backed by UPS).
- Charging alternator. Ensures that batteries are charging when the unit is operating.
- Sight gauges. Simplify monitoring of fuel and critical fluid levels.
- Security features. Lockable doors, interior-mounted oil/water drains, and hidden exterior fuel drains help prevent tampering.
- Distribution panel labeling. Helps inexperienced operators safely identify output voltages.
- Output bus bars. Spacing of bus bars for multiple output cable hookups allows one generator set to run several loads.
- Fuel priming pump. Facilitates startups after transport.
- EPA and local emissions certifications. Ensures compliance with emissions regulations.

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Step 4: IDENTIFY REQUIRED ANCILLARY EQUIPMENT AND ACCESSORIES. Your installation may require a variety of accessory equipment. Consider whether you need any of the items listed below. If so, determine the required quantities.

- | | | | |
|--|-------|---------------------------------------|-------|
| <input type="checkbox"/> Cable | _____ | <input type="checkbox"/> Fuses | _____ |
| <input type="checkbox"/> Switchgear | _____ | <input type="checkbox"/> Outlets | _____ |
| <input type="checkbox"/> Controls | _____ | <input type="checkbox"/> Spider boxes | _____ |
| <input type="checkbox"/> Circuit breakers | _____ | <input type="checkbox"/> Cable ramps | _____ |
| <input type="checkbox"/> Transformers | _____ | <input type="checkbox"/> Other _____ | _____ |
| <input type="checkbox"/> Quad boxes | _____ | <input type="checkbox"/> _____ | _____ |
| <input type="checkbox"/> Load banks | _____ | <input type="checkbox"/> _____ | _____ |
| <input type="checkbox"/> Bus bars | _____ | <input type="checkbox"/> _____ | _____ |
| <input type="checkbox"/> Distribution panels | _____ | <input type="checkbox"/> _____ | _____ |

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Step 5: CHOOSE YOUR RENTAL GENERATOR SET SUPPLIER. To implement a successful plan, look for a rental dealership that offers the following qualifications and capabilities:

- Well maintained and pre-tested equipment.
- Rental units in stock that meet your load requirements.
- Modern, emissions-compliant equipment designed for rental use.
- Complete ancillary equipment in stock.
- Ability to deliver to meet your time constraints.
- Quick, efficient delivery and pickup.
- Complete fuel service.
- Spare parts inventory in stock.
- Staff qualified to deliver turnkey service and technical support.
- Experience in your industry.
- Capability to train your staff.
- Flexible financial options that include weekly and monthly rental contracts; Rental Purchase Options.
- Pre-approved credit arrangements.
- 24-hour response including weekends and holidays.

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Step 6: PROVIDE FOR FUELING. A reliable fuel supply is essential for emergency operation. You should arrange for fuel service in advance, ideally through your rental equipment supplier, or through another source if necessary. Considerations include:

- Tank capacity. Determine the fuel consumption rate of the generator set. The unit should be able to operate for at least eight hours between refuelings.
- Auxiliary fuel. Having an auxiliary fuel tank enables longer runs between refuelings.
- Delivery access. Make sure you can provide a clear and easily navigable access route for fuel delivery vehicles.
- Spill containment. Regulations typically require containment equal to the tank capacity.
- Credit approval. Prior credit approval from the fuel supplier is essential to keep emergency operations on track.

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Step 7: CONDUCT A DRY RUN. Practice makes perfect. If you want your plan to work in a real emergency, you must practice its execution beforehand. Stage a drill in which your team and, ideally, your equipment supplier run through the plan step by step, just as if an emergency were really happening.

- Make sure that each person fully understands his or her role in the event of an actual power outage.
- Estimate how long it takes from the time the power fails until your emergency power supply is on line.
- Verify the voltage from the transformer breakdown. Knowing the voltage from the transformer breakdown is essential to the safety of people around the generator and will allow the service provider to fit the generator with the right size connections.

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Step 8: DESIGNATE EMERGENCY PERSONNEL. Make a list of the key emergency contacts who will be in charge during outages. Make this list accessible to your team members and keep it up-to-date. Be sure to include a primary contact and alternate for each of the following job functions:

- In-house operations and maintenance
- Electric utility representative
- Generator set operation
- Rental equipment representative
- Electrical engineer or contractor
- Fuel supplier
- IT, security, data recovery
- Generator set hookup

NAME & FUNCTION	E-MAIL	OFFICE PHONE	MOBILE PHONE	HOME PHONE

A FINAL WORD. We are a supplier of complete generation systems for emergency power. Our engineers and field technicians are experienced in applications of every size, in every sector. We are prepared to answer your questions about electric power contingency planning and to be your business partner in the next power emergency.

For more information, contact us.



EMERGENCY DOCUMENT PLANNER:

Your PRACTICAL GUIDE to completing the required paperwork to ensure the rental process will proceed smoothly.

To rent equipment from Carolina Cat your company must have an established account with Carolina Cat and demonstrate its ability to comply with Carolina Cat's terms and conditions for rental. Filing the required documentation before an emergency arises will help keep your equipment rental on a fast track.

This Document Planner will help you determine which forms you need to file, and where and whom to send them to. The checklist format will help keep your paperwork organized.

Don't wait until it's too late to process the paperwork we need to rent you the equipment you need. The time to prepare is now. And Carolina Cat is ready to assist you.

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Step 1: CONFIRM YOUR COMPANY'S ACCOUNT STATUS. Establishing an account with Carolina Cat is easy to do, but processing the application can take time, so you cannot wait until disaster threatens. If you do not already have an established account with Carolina Cat now is the time to:

- Fill out the Application for **Credit.CarolinaCat.com**
- Make a copy of the Application for Credit and keep it in your Contingency Planning Solutions folder

Step 2: SUBMIT A VALID CERTIFICATE OF INSURANCE. For our customers' protection as well as our company's, rental equipment will not be allowed to leave Carolina Cat property until the renter provides a valid Certificate of Insurance confirming:

- General Liability Coverage for \$250,000 to \$1,000,000 minimum. The amount varies based on the size of the equipment.
- Physical Damage Coverage for replacement value of rented/leased equipment
- Carolina Cat named as certificate holder, additional insured and loss payee
- Send all documents by email to: Austin Black at ablack@carolinacat.com or your Carolina Cat sales person.
- Make a copy of the Certificate of Insurance and the keep it in your Contingency Planning Solutions folder