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. Milton CAT Power Systems is ready to assist you.

Milton Cat Power Systems

ELECTRIC POWER and COMPRESSED AIR EQUIPMENT 800-821-6412 www.miltoncat.com



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:

Production machinery	 kW	Pumps	_	k\	N
Computers and servers	 kW	Other		k\	N
Process controls	 kW			k\	N
Plant and office lighting	 kW			k\	N
Heating, ventilating, air conditioning	 kW				
Compressed air systems	 kW	тот	' AL _	k\	N

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.

	IT AND ACCESSORIES . Your i you need any of the items liste	nstallation may require a variety d below. If so, determine the
🗆 Cable	 □ Fuses	
Switchgear	 Outlets	
Controls	 □ Spider boxes	
Circuit breakers	 Cable ramps	
☐ Transformers	 D Other	
Quad boxes	 □	
Load banks	 □	
Bus bars	 □	
Distribution panels		

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.

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.

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.

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
 IT, security, data recovery
- Electric utility representative
 Rental equipment representative
 Generator set hookup

Generator set operation
 Electrical engineer or contractor
 Fuel supplier

	E-Mail Address	
Home Phone		Cell Phone
	E-Mail Address	
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	E-Mail Address	
Home Phone		Cell Phone
	E-Mail Address	
Home Phone		Cell Phone
	E-Mail Address	
Home Phone		Cell Phone
	E-Mail Address	
Home Phone		Cell Phone
Home Phone	E-Mail Address	Phone
Home Phone Home Phone	E-Mail	Cell Phone Cell Phone
Phone	E-Mail	Phone
Phone	E-Mail Address E-Mail	Phone
Phone Home Phone Home	E-Mail Address E-Mail	Phone Cell Phone Cell
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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.

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