# Power outages: using alternative fuel and electricity generation safely

## Community information

When power outages occur (usually because of a severe weather event) people sometimes use alternative sources of fuel or electricity generation for cooking, lighting, heating or power.

Portable generators can allow some normal activities to continue; however, it is important to use them carefully.

Petrol or diesel-powered generators can produce carbon monoxide gas so **must only be operated in a well-ventilated outdoor area** away from open windows and vents.

Carbon monoxide is invisible and has no smell. If it builds up in a home, garage or caravan it can cause sudden illness, loss of consciousness and death. Think about your pets as well as your family.

**Do not use appliances designed for outdoor use inside a home**, basement, garage, caravan or tent, or even outside near an open window. Appliances such as power generators, grills, camp stoves or other petrol, LP gas, natural gas or charcoal-burning devices should only be used as specified by the manufacturer.

## Power generators

Although they are very useful, if not used safely, portable generators can lead to:

- · Carbon monoxide poisoning from the engine exhaust
- Electric shock or electrocution
- Fire.

Householders must follow the directions supplied with the generator to ensure safe use.

## Purchasing a generator

Permanently installed stationary generators are best suited for providing back-up power to the home.

Only a licensed electrician should connect a permanent generator.





## Using a portable generator safely

- **Do not use a portable generator indoors**. This includes inside a garage, carport, basement, crawlspace or other enclosed or partially enclosed area, even with ventilation.
- Operate the generator outdoors away from windows.
- Read the manufacturer's instructions before use.
- Do not overload the generator.
- Switch the generator off when refuelling or when not in use.

Opening doors and windows will not prevent carbon monoxide building up in the home. It is a good idea to install battery-operated carbon monoxide alarms in your home to alert you when carbon monoxide levels pose a health risk. Test the battery frequently and replace when needed.

#### To avoid electrocution

- Keep the generator dry and do not use it in the rain.
- To protect the generator from moisture, use it on a dry surface under an open canopy-like structure, such as a tarpaulin held up on poles.
- Always dry your hands before touching the generator.

# Refuelling a generator

- Ensure the generator is off and cool before refuelling. Petrol spilled on hot engine parts can ignite.
- Store petrol outside the home in a locked shed or other protected area.
- Do not store any fuel near a fuel-burning appliance (such as a natural gas water heater or near a car in a garage).

### Using appliances connected to a generator

If returning to a property that has been significantly damaged by fire or strong winds, it is important to first check the wiring and other electrical installations before connecting and turning on any appliances.

#### Additionally, you should:

- Plug appliances directly into the generator via a heavy duty, outdoor-rated extension cord.
- Use short extension leads that are in good condition, and plugs that have all three prongs.
- · Fully unwind extension leads from reels or drums.

Do not try to power the house wiring by plugging the generator into a wall outlet. This can 'back feed' along the power lines and is extremely dangerous to you and your neighbours.

#### Preventing carbon monoxide poisoning

- Never use a gas stove or oven to heat a home.
- Never use a charcoal grill, hibachi, lantern or portable camping stove inside a home, tent or caravan.
- Never run a generator, pressure washer or any fuel-powered engine inside a basement, garage or other enclosed structure, even if the doors or windows are open, unless the equipment is professionally installed and vented.
- Keep vents and flues free of debris, especially if winds are high, as flying debris can block ventilation openings.
- Never run a motor vehicle, generator, pressure washer or any fuel-powered engine outside an open window, door or vent where exhaust can vent into an enclosed area.
- Never leave the motor running in a vehicle parked in an enclosed or partially enclosed space such as a garage.
- If you start to feel sick, dizzy or weak, get to fresh air immediately and get immediate medical advice.

#### For further information

Call 13 HEALTH (13 43 25 84) at any time.

Contact 13 QGOV (13 74 68) for your nearest Public Health Unit.

#### Your doctor

For information about the health effects of carbon monoxide exposure ask your local doctor.

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