



Power Outage Preparations

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In large buildings, such as office buildings, service buildings and multi-story apartment buildings, preparing for power outages is an important safety measure. Safety measures for incidents of fire or criminal activity need to be reliable even in a power outage.

In Novapolis' buildings, the power reserves for fire detectors and safety lights maintain the systems for approx. 1 hour.

There are some exceptions where a backup generator ensures sufficient power (Microkatu sections S and T).

Section 166 in The Land Use and Building Act states that buildings must be kept in a condition that meets the standards of safety at all times.

The locks on access control doors will remain operational with battery power for some time. You can always exit a door by pressing the button on the lock. When necessary, you may break the cover protecting the unlocking button.

- We aim to prevent the use of elevators before a power outage. When power is cut, elevators stop where they are. Emergency phones in elevators will remain operational for around 2 hours.



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- HVAC systems will shut down. Ventilation, heating, and cooling will not work.
- Avoid creating new waste water in the toilet or shower. This helps reduce the load on waste water pumps in the area during a power outage.
- Some buildings use electric pump systems to move waste water. Water points connected to these pump systems cannot be used during a power outage (Viestikatu 3, basement level).
- Avoid using the water points in laboratories because neutralisation processes are inactive in a blackout (Microkatu sections C, N-R, S, T)
- Internet connections will shut down unless secured with UPS batteries. Cell towers will have power reserves for around 30 minutes.



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- Evaluating critical electricity needs helps you identify (via risk assessment) what will happen when a power outage occurs.
- Make sure that any critical systems have an uninterruptible power supply (UPS) system in order to shut down processes in a controlled manner.
- Similarly to the controlled shutdown process, the startup should also be in your control.
- Identify in advance functions that start automatically and functions that require manual attention.
- When the power comes back on, safety fuses may 'switch down' due to the large simultaneous demand for power.



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- Our parking structures' outlets have been fitted only for engine heating.
- When the power comes back on, fuses will be under a considerable load. Car interior heaters cause extra strain on the grid.
 - The use of interior heaters is generally prohibited for this reason.
 - Electric-powered lift doors can be operated manually with pull cords.
 - Be sure to close lift doors to keep heat inside and to prevent icing.
- Restaurants will not serve customers regularly during a power outage.
- **In harsh sub-zero temperatures, take measures to prevent freezing issues.**
 - **Keep doors and windows closed.**



Power Outages in Practice



0 seconds:

- Trams, subway trains and other trains stop.
- ATM machines and banks close; payment cards stop working.
- Some locations lose access to running water; you can flush a toilet only once.
- Fuel will not be available at service stations or places of distribution.
- Elevators stop.
- Heating shuts down, wood-burning ovens/heaters excluded.
- Lights turn off, and appliances stop working.
- Street lights and traffic lights turn off.
- Refrigerators and freezers start getting warmer.

15 minutes:

- Most grocery stores and small shops close.

2 hours:

- The first data communications towers shut down: no calls or internet.
- Large supermarkets and shopping centres start closing.

6 hours:

- Most of Finland will not have telephone or internet connections.
- Cars, taxis and buses are slowly running out of fuel.

18 hours:

- The interior temperature in wooden low-rise buildings is down to +10°C if the outside temperature is -20°C.

30 hours:

- The interior temperature in stone low-rise buildings is down to +10°C if the outside temperature is -20°C.

36 hours:

- The interior temperature in prefab apartment buildings is down to +10°C if the outside temperature is -20°C.

4 days:

- The interior temperature in stone apartment buildings is down to +10°C if the outside temperature is -20°C.

NOTE! In temperatures under +10°C, the human body needs heat from muscle activity to maintain a healthy body temperature. People with mobility issues, for example, small children, elderly people and sick people cannot stay in such a cold temperature for long.



Radio broadcasts will continue even during a power outage.

During a power outage

- Find Radio Suomi or your local station on the radio.
- Listen to the radio for news and instructions.
- If you've got internet access, seek information from news outlets and authorities' websites. You can also visit your power company's and municipality's websites.
- Do not trust hearsay or spread rumours.

**Prepare:
Get a (rechargeable) battery-powered radio to use in power outages.**

Calling for Urgent Help

If phones and networks are operational:

- Call **112** if you need urgent help or face an emergency.
- Do not hang up if the emergency call centre is backed up. Stay on the line and wait. Operators take calls in the order they come.

If your cellular network is down:

(i.e., your phone doesn't have any bars indicating a signal)

- Try calling **112** anyway. The call may go through if there is a working network in the area.
- **If you cannot make the phone call**, restart your phone. Do not enter your PIN code; just call **112**.
- **Alternatively:** Take out your SIM card and call **112**.



Preparations

- Keep an eye on power companies' communications. They will have the most accurate and up-to-date information on potential power outages. Power outages may also occur unexpectedly.
- Make a plan of action for your company/organisation in case of a power outage. Make sure your staff is informed of the plan.
- Get a battery-powered radio and hand lamps. Also get some extra batteries.
→ Web radios will shut down.
- Figure out your exit routes through stairways.
→ Follow exit and safety lights.
- Take a look at your building's and company's safety plan. Novapolis' rescue plans are available on **NovaNet**:
 - <https://www.novapolis.fi/novanet/>
User ID: Novapolis Asiakas
Password: S4vil4hti2022
- Ensure that heaters and heat-generating devices have been switched to the 0/OFF position during a power outage (fire hazard).
- Make sure doors are closed and locked when you exit the building.



Plan of Action at KPY Novapolis



- If possible, Novapolis will notify customer-appointed contact personnel about known potential power outages via text message (SMS).
- SMS communications will start at the turn of 2023. Until then, newsletters will be used to notify you of potential power outages.
- Generally, KPY Novapolis' premises will not be available to use during power outages, and everyone must exit the premises in case of a blackout. **Note! Do not use elevators/lifts or toilets during a power outage.**
- Novapolis' reception services and other staff will do what they can to help everyone during a power outage.
- Maintenance personnel will be on-call during power outages. Power will be provided in stages after a power outage in order to avoid voltage spikes.
- After a power outage, reception services will be available as usual.
- Maintenance personnel will inspect the building's technical systems after the power is returned.



KPY NOVAPOLIS