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## How do Generators create Electricity?

Generators do not create electricity instead it uses the mechanical energy supplied to it to force the movement of electric charges present in the wire of its windings through an external electric circuit. This flow of electrons constitutes the output electric current supplied by the generator.

The modern-day generators work on the principle of electromagnetic induction discovered by Michael Faraday. He realized that the above flow of current can be created by moving an electrical conductor in a magnetic field. This movement creates a voltage difference between the two ends of the conductor which causes the electric charges to flow, hence generating electric current.



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## 10 Reasons Your Business should have a Standby or Emergency Generator:

1. Maintaining Customer Contact – While other businesses in your area may be unable to operate due to lack of power through either a planned or unplanned power outage by having a standby Generator you will be able to continue to operate your business and maintain continual contact with customers which provides a business advantage plus invaluable service to customers.
2. Lighting and Security – The inclusion of an automatic transfer switch (ATS) on a standby generator, means that as soon as your business loses power the switch senses that loss and the Generator is prompted to start with a minimal delay. Once the generator kicks in, your business can continue to run lighting/security systems inclusive of any other electrical equipment which has been identified as essential, which assists to keep your business safe/secure from many potential risks for example burglars etc.
3. Electronic Data – Computers are exceptionally vulnerable to power outages and in the event of a major storm, data stored on hard drives that your business relies on could potentially be lost and a significant amount of this data is irreplaceable.
4. Loss of Income – Losing power could force your business to stay closed for an unprecedented period of time meaning you could lose income for every day you are unable to open. A generator is a reliable source of backup power that enables your business to stay open and allows your customers to stay connected.
5. Connection – Ensure your business is connected and can still operate during a power outage, including sending emails, making calls and using the internet. Being able to keep the power on enables your employees to have no downtime.
6. Always There – Standby generators can be permanently installed at your building or alternatively be mobile, they are always ready in the event of a power failure. Fuelled by diesel, a standby generator can also be connected to the building's power grid by a registered electrician your needs can be tailor-made to your particular requirements.
7. Know What Has Power – Another benefit to a standby generator is that you can choose which pieces of equipment or sections of the building will receive power. The building can be separated into electrical zones ensuring you receive power where you need it most or alternatively you can have all of your equipment as essential which means everything will be operational.
8. Safer Than a Portable Generator – For a cleaner, more efficient option, a standby generator is a safer alternative to a portable, petrol-powered unit.
9. Sensor-Based Activation – When the main power supply cuts out, the monitoring system on a standby generator engages the activation switch. Once the power is restored, the generator will shut down.
10. Choose the Size that Suits Your Business – Depending on your size, every business has unique power supply needs and demands. Take into account the amount of equipment, computers, and buildings that require power in the event of an outage and make sure your standby generator is sufficient.

Power is reliable, most of the time. However, most of the time isn't the same as, all the time also with our weather patterns continually changing, you need to plan for the unexpected to protect your business going forward.

For all your Generator needs please contact us on 0800 444 737 or by email at [sales@genset.co.nz](mailto:sales@genset.co.nz)