



# Automated power management system

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With a power management system (PMS), supply is matched with demand in your power supply system. Suitable for all applications on land or at sea, and for all types of power sources including renewables, PMSes automatically monitor and control your installation, ensuring uninterrupted power and allowing you to operate the installation as efficiently as possible.

If your power sources do not produce enough electricity, your operations could be jeopardised. Conversely, if they produce too much, you could be spending too much on power generation, for example on diesel fuel. Neither of these scenarios are acceptable, but you can avoid them using a power management system (PMS) which ensures that enough power is available with the right amount of power sources online. It controls your power sources and breakers as efficiently as possible, allowing you to save on operating costs.

A PMS constantly monitors your installation in order to detect if a power source becomes unstable or unavailable. If a blackout does occur, the PMS restores power installation as quickly as possible. If grid power disappears, for example, the PMS might immediately switch to a local battery while cranking one or more gensets in order to ensure a steady power supply until grid power becomes available again. The PMS ensures that the changeover from one power source to another goes as smoothly as possible, with a minimum of instability and interruptions in power delivery.

The PMS can also carry out load sharing, for example in order to distribute the load between several gensets or photovoltaic panels. If power demand is approaching the maximum power generation capability of your installation, and it is not possible to activate extra power sources, for example on a ship at sea, the PMS may also be able to carry out load shedding, cutting out non-critical loads in order to lower power demand.

PMS solutions are available for all types of power source, for example grid power, gensets, batteries, and renewables such as wind turbines and photovoltaic panels. You can combine one or more of these power sources in a solution that balances the need for consistently reliable and sufficient power with the important objective of using more sustainable and renewable power sources. With a PMS, you can contribute to a better climate while still getting optimal power management.



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A PMS gives you several important benefits:

Modern PMSes with advanced technology often provide even more options that help you achieve efficient and economical operation. Here are a couple of examples:

In short, power management is the discipline of matching supply and demand, and power management systems (PMSes) can help you achieve this balance - automatically, economically and reliably.

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