

Technical Data

Schneider Electric - Sustainability Showcase

Making the most of your energy

To help businesses make the most of their energy and for solutions to improve energy consumption, Schneider Electric offers four simple steps:

1) Measure:

By measuring energy usage through metering, energy audits and simple bill analysis, it is possible to monitor the consumption of installations, areas and different systems, such as heating and lighting, to identify where savings can be made. In a bid to reduce the UK's carbon emissions, Part L2 of the Building Regulations demands new builds, major refurbishments and any other commercial premises to account for the usage of 90% of each fuel type, meaning metering, such as the Isobar split metering board, should be fitted.

Type A and B split metered distribution boards are suitable for single- and three-phase applications to monitor energy consumption. Other solutions include metering and monitoring devices such as Powerlogic and a retrofit metering kit with split core current transformers. Some of the monitoring technologies available are now recognised by the Government led Enhanced Capital Allowance Scheme. This enables businesses to offset the cost of energy efficient products and technologies against their tax bill, provided they use equipment which is included on the Energy Technology List.

2) Fix the Basics:

Educate staff on how they can help reduce electrical consumption by switching off devices such as lights and IT equipment when not in use. Low energy equipment such as low voltage lamps and dimming

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controls from Schneider Electric's GET range can be utilised to help cut back power consumption. Consider the power consumption of different technologies and installations. High-quality electrical devices such as circuit breakers, contactors and low-loss transformers, which work efficiently, will help reduce energy costs. Utilising busbar trunking will offer a more reliable and energy efficient electrical distribution system and Power Factor Correction can be applied to improve the efficiency of the transmission network.

3) Automate:

Automation avoids having to rely on uncertain human action and ensures energy saving while providing increased comfort and safety. Schneider Electric offers a wide range of automated solutions including its Control and Command range, which features time clocks, light sensitive switches and presence detection equipment. These solutions will automate lighting, heating, air conditioning and ventilation systems. The use of variable speed drives from the Altivar range for pump and fan control can provide savings of up to 50 per cent for a speed reduction of 20 per cent.

The Lubio and C-Bus ranges offer energy efficient lighting control and offer an easy installation for both new build and retrofit applications. These products can be integrated into a complete building management system, allowing organisations to remotely manage their premises, helping to lower energy consumption, control costs and increase system efficiency.

4) Monitor and Improve:

By continuously analyzing usage, businesses can achieve cost savings through maintenance, supervision and monitoring, to help make further improvements. Software systems can be used to monitor and analyse energy trends and consumption, which will help a business strictly manage costs well into the future. Schneider

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Electric also offers a range of training and consultancy services with practical advice, planning, design and technical support. The company can provide recommendations to control risks, optimise the way the installation is managed and identify energy savings. Through its comprehensive spectrum of solutions, technologies and services, Schneider Electric can help businesses save money, lower their carbon footprint and meet legislative commitments.

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