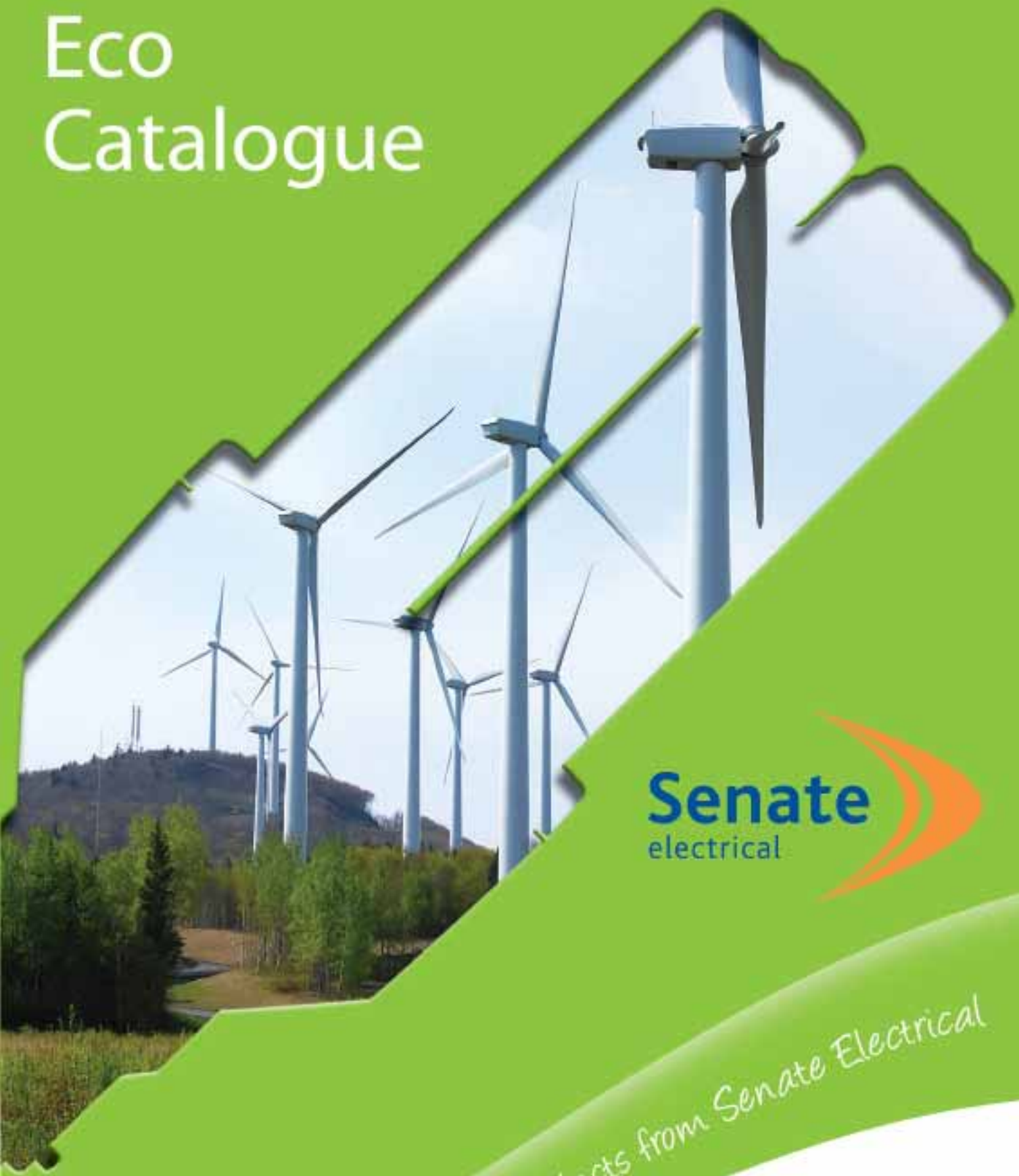
Eco Catalogue



Senate
electrical

Energy Saving Products from Senate Electrical

Senate
electrical
Best to go Green

Introduction

DID YOU KNOW?

Senate Electrical's comprehensive range of products featured in this catalogue, shows that we are answering the consumer's ever growing demands for energy saving solutions.

ENERGY SAVING

Energy is vital to the modern economy. We need energy in almost every aspect of our lives – to heat and light our homes, to help us travel and to power our businesses.

In the past the UK economy has benefitted from its fossil fuel resources – coal, oil and gas. However, we now face new energy challenges: tackling the consequences of climate change by reducing emissions both in the UK and abroad, whilst ensuring that our energy supply remains secure.

In Spring 2007, the UK and other member states agreed to an EU-wide target of 20% renewable energy by 2020 and 60% by 2050.
The UK's share of this target is to achieve 15% of its energy from renewables by 2020.

The starting point to achieving this target is to save energy. This 15% target is a percentage of total energy consumed; therefore the lower that figure, the easier it will be to achieve.

Reducing energy demand is also important for other reasons: it is cost-saving to households and businesses; it reduces greenhouse gas emissions and contributes to security of supply.

The **Energy Hierarchy** states organisations and individuals should address energy issues in the following order:

1) Reduce the need for energy
2) Use energy more efficiently
3) Use renewable energy
4) Any continuing use of fossil fuels should be clean and efficient

As part of the Rexel Group, Senate Electrical is committed to sustainable development and has implemented the following actions.

Rexel Charter for Sustainable Development

Waste

- We separate cardboard so that it may be recycled
- We separate all office papers, catalogues and magazines so that they may be recycled
- We participate in fluorescent tube recycling
- We participate in battery recycling
- We return printer and toner cartridges to the suppliers so that they may be recycled

Products

- All of our branchs' equipment and lighting are low in energy-consumption

Client Offer

- During the year, we have held at least one sales day for our customers to promote energy-saving light

Sensitising/Information

- All staff have read the ethics guide during the year
- All staff have been informed of the implementation of this charter at least once during the year
- We inform our customers, partners and suppliers of our sustainable development policy

Eco Links

visit senate.co.uk/ecolinks for all the latest eco information and website links

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Content

Legislation

DID YOU KNOW?

Current L1 Building Regulations require either 1 energy efficient light fitting per 25m² for commercial property 1 in 4 fixed luminaires in domestic installations.

ENERGY SAVING

In April 2006, Part L of the Buildings Regulations (England and Wales) was revised to raise energy performance standards and reduce CO2 emissions.

Part L requires all new and existing buildings to be given an energy rating and for all new buildings to meet a minimum level of energy efficiency. It is divided into 4 sections:

Part L1A – Conservation of Fuel and Power in New Dwellings
Part L2B – Conservation of Fuel and Power in Existing Dwellings
Part L2A – Conservation of Fuel and Power in New Buildings other than Dwellings
Part L2B – Conservation of Fuel and Power in Existing Buildings other than Dwellings

A key change from the 2002 regulations is that compliance is now based upon the whole building's carbon emissions, meaning that building designers must now take an overall approach to the design of their buildings, considering the impacts of both the constructional elements as well as those of the energy using services (heating, hot water, lighting and ventilation).

In order to achieve compliance, designers must show that the predicted annual carbon emissions from the buildings are less than or equal to a calculated Target Carbon Emissions Rate – known as the TER (calculated from a "national" building of the same floor area/shape/etc.. as the one being designed).

CODE FOR SUSTAINABLE HOMES

The Code for Sustainable Homes measures the sustainability of a home against categories of sustainable design, rating the 'whole home' as a complete package.

The Code uses a 1 to 6 star rating system (with 6 being the highest sustainability rating) to communicate the overall sustainability performance of a new home and sets minimum standards for energy and water use at each level.

Since May 2008 all new homes are required to have a Code rating and for a Code certificate to be included within the Home Information Pack (HIP). By 2016 all new homes must be built to zero carbon standards, which will be achieved through a step by step tightening of the Building Regulations.

Date	2010	2013	2016
Energy efficiency improvement of the dwelling compared to 2006 (Part L Building Regulations)	25%	44%	Zero carbon
Equivalent standard within the Code	Code level 3	Code level 4	Code level 6

Funding

DID YOU KNOW?

Their is an Enhanced range of grants and funding available for renewable technologies under the Low Carbon Buildings Programme - **see page 30**

ENERGY SAVING

Energy Saving Trust

energy saving trust

The Energy Saving and Renewable Energy grants vary depending on your local area. For a full list of the grants available in your local area visit:

www.energysavingtrust.org.uk/gid

Carbon Trust Interest Free Loans

CARBON TRUST
Making business sense of climate change

The Carbon Trust offers interest free loans to businesses that are upgrading to more energy efficient equipment. Businesses can borrow between £5,000 and £200,000 to invest in energy-saving equipment with no arrangement fees and a straightforward application process. However, the size of the loan offered and its repayment period will depend on the projected CO2 savings, which will be assessed by the Carbon Trust.

www.carbontrust.co.uk/energy/takingaction/about-loans

Enhanced Capital Allowances

Energy Technology List

Enhanced Capital Allowances (ECA) are designed to encourage businesses to invest in energy-saving equipment. The scheme provides a tax incentive to businesses that invest in energy-saving equipment that meets the published energy-saving criteria. (see Energy Technology List – ETL – www.eca.gov.uk)

The ECA scheme is open to all businesses that pay corporation or income tax regardless of size, sector or location. Capital allowances are available for spending "on the provision of" plant and machinery. This can include certain costs arising as a direct result of the installation of qualifying plant and machinery such as transport of the equipment to the site, and some direct installation costs.

The Enhanced Capital Allowance (ECA) scheme enables businesses to claim 100% first-year capital allowance on investments in energy-saving equipment, against the taxable profits of the period of investment and should be submitted as part of your normal corporate or income tax return.