



ISLE OF MAN  
EDITION

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# Manx Green Energy Solutions

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Churches should take the lead in the green energy revolution. A Rocha UK has been encouraging churches to continue to take a lead in promoting alternative energy.

Churches and communities can still invest in renewables, disinvest in fossil fuels and persuade their MHKs to take a strong line on climate.

Hundreds of churches are already taking this kind of action – some as part of the Eco Church scheme. They are conducting their own green audits, forming environmental groups, working out their ecological footprint and refitting their buildings to make them more environmentally-friendly.

We have only one planet, there's no 'planet B'. It's time for the church to stand up and take a lead. Let's say 'no' to fracking, 'no' to fossil fuels, 'no' to unethical investment – and 'yes' to a new sustainable future.

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In May 2010 Tynwald agreed that 15% of electricity should be generated from renewable sources by 2015. Based on the 2011/12 figures provided by the MEA, the Isle of Man currently generates approximately 3.2% of its electricity from renewable sources, with approximately 2.6% from the Energy from Waste plant (EFW), and 0.6% from the hydro-electric station at Sulby. It is estimated that a further 1.8% of electricity may be generated from micro generation, including combined heat and power plants (CHP). However, we are unable to confirm this figure as the electricity is consumed locally and not distributed using the MEA grid.

We generate electricity on the Island and also procure electricity using an AC power interconnector marine cable. Our electrical infrastructure includes:

- 4 power stations
- 102 kilometres of subsea cable
- 20 kilometres of high pressure gas pipeline
- a transmission and distribution network
- 1200 kilometres of underground cables
- 530 kilometres of overhead lines

By using clean, renewable energy we can help restore the earth and bring balance to God's creation.

Following the historic UN climate deal in Paris in December, the shift towards renewable energy has well and truly begun. Now we need to keep up the pressure on politicians and companies to go further. One way we can do this is to take small positive steps in our homes, churches and communities.

Led by CAFOD, Christian Aid and Tearfund, churches of all denominations, shapes, sizes and locations are joining together to make a Big Church Switch to 100% renewable electricity. Our own actions, multiplied, will send a strong signal to governments and businesses that churches are prepared to lead the way and switching to renewables is crucial if we are to live and enjoy God's world together.

Take a look at the Big Church Switch website to see how you and your church can take part. And don't miss the point below which tells you how you can switch to Ecotricity and raise money for A Rocha UK at the same time!

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BIG CHURCH SWITCH

[www.bigchurchswitch.org.uk/](http://www.bigchurchswitch.org.uk/)



## Obtain specialist advice on historic buildings

Guidance on improving energy performance on traditional or historic buildings can be found in a document from Historic England.

## Plug into green power

The Manx Energy Advice Centre is an Isle of Man charity which advises on energy efficiency and renewables. The team will be glad to visit your church and/or church hall to discuss what changes you might be able to make:

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### ENERGY EFFICIENCY

[content.historicengland.org.uk/images-books/publications/energy-efficiency-historic-buildings-pt1/eehb-part1.pdf](https://content.historicengland.org.uk/images-books/publications/energy-efficiency-historic-buildings-pt1/eehb-part1.pdf)

### MANX ENERGY ADVICE CENTRE

[www.manxenergyadvicecentre.org/](http://www.manxenergyadvicecentre.org/)



## Renewable and Energy Efficient Solutions

SNX Ltd. has been the biggest winner at each of the last five Isle of Man Government Energy Awards, with 10 outright wins and 10 further High Commendations for a wide diversity of projects, from undertaking Energy Audits on the Island's schools for the Department of Education and Children, to the widespread deployment of heat pump technology into Private and Public Sectors and to the design and installation of on-shore wind turbines. SNX evolved into a fully incorporated Manx company early in 2012 having worked initially from within the Stroma Group of Companies, though is now wholly independent. SNX represents the interests on the Island of many blue-chip service and technology providers and offers a huge resource in terms of Design, Consultancy, Procurement and Installation within the Energy Sector. SNX is currently providing the Island with the very latest state of the art commercial LED lighting systems, with large installations on three sites at Nobles Hospital and two more at the NSC in recent months, with more to follow. SNX is also breaking ground rapidly on delivering new build and retro fit passive developments to the Isle of Man, having completed their first Passive House in Port St. Mary last year with others now in planning.

However, the core of the SNX business model is an expertise in testing and measuring the energy efficiency of existing buildings and prescribing incremental improvement recommendations to ensure that the greatest savings for the least amount of capital expenditure can be delivered. SNX is a Licensed Energy Efficiency Consultant by the Government for the Business Support Scheme and Green Loan initiative and provides Energy Auditing, Air Tightness Testing, Acoustic Surveys & Renewable Technology feasibility Studies.

We will be happy to offer our ethical services to all places of worship at discounted rates and will provide a realistic, Best Practice approach to improving your buildings, reducing the reliance on fossil fuels & improving Energy Efficiency in the most cost effective way.



## Energy savings for churches with 'wet' heating systems or with draughty windows

EcoChurches IoM has teamed up with The Energy Savers Ltd ([www.tes.im](http://www.tes.im)), a local firm supplying robust energy efficiency devices. These include Quattro Seal air tightness solutions (reducing draughts), and TadpoleEnergy.

Quattro Seal is a robust liquid sealing system that deforms to any shape and style of window, irrespective of fabric or size (including uPVC). All windows will operate as before. Other areas covered are frame to wall, under sills, exit service pipes, loft hatches etc. The system has been proven to deliver up to 27% savings on heating costs – generally a major expense for places of worship.

TadpoleEnergy is a simple, robust system improving the longevity and effectiveness of radiator systems, cutting costs and helping reduce CO2 emissions, as well as reducing unplanned maintenance.

The Energy Savers Ltd. has kindly offered a 10% discount on their energy saving solutions for places of worship participating in EcoChurches IOM. In addition, they have donated a number of reflective insulation panels from a third-party supplier, which may be of use either to churches or their deserving parishioners.

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THE ENERGY SAVERS  
[www.tes.im](http://www.tes.im)



## Energy Management Systems

Energy Management Systems (EMS) is a local company providing energy efficiency solutions for both organisations and households. They offer a huge range of solutions from the very simple (but effective), such as radiator 'flushing', to the more extensive, and they are happy to offer discounts to places of worship signed up to 'EcoChurches' (these will depend on which product or service is chosen).

A small sample of their offering includes:

- Power Flushing to improve radiator efficiency
- 'Eazyheat' radiator insulation panels to ensure heat reaches the room, not the outer walls
- Boiler servicing and maintenance, and a Boiler Homecare plan which parishioners might find useful

Then there's solar thermal to provide lower cost hot water (EMS's Rodger Harper describes the sun as 'God's fuel'), Netamo (a smart energy management and monitoring system) and much more.

EMS is happy to tailor its services to the needs of churches, chapels, halls, vicarages and parishioners' homes.

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ENERGY MANAGEMENT SYSTEMS  
[www.ems.im](http://www.ems.im)



## Find out about green energy schemes

On the Isle of Man, Manx Utilities generates a small amount of green energy which can be bought for a slightly higher tariff than conventionally (fossil fuel) generated power.

## Discover how other churches get green energy

Energy can be the most significant spend for churches, so many are interested in installing solar photovoltaic panels on their roof surface so as to generate clean energy for themselves; keeping energy bills down and protecting God's kingdom. Other options include heat pumps, small turbines etc.

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