

How are emissions affecting the Isle of Man?

Consequently, emissions in this sector are increasing as other sectors decarbonise and electrify. Electricity generation (including emissions from both the Manx Utilities and the Energy from Waste plant) is currently the dominant source of carbon emissions on the Isle of Man, accounting for 33% of the island's emissions at 245KT per year.

Will intermittent renewables be profitable for the Isle of Man?

It is unlikely that the export of intermittent renewables will be profitable for the Isle of Man given the reasons outlined in this document. The Isle of Man currently imports all of its energy from the UK (with the exception of what is produced from Sulby).

Could the Isle of Man re-import electricity from an offshore wind farm?

With interconnectors the Isle of Man could re-import electricity generated from an offshore wind farm, allowing GB to manage the balancing. This would likely result in much lower costs to consumers. CFDs are not currently open to the Isle of Man as it is not part of the UK.

Does the Isle of Man import energy from the UK?

The Isle of Man currently imports all of its energy from the UK (with the exception of what is produced from Sulby). In all future models, the Isle of Man remains dependent on GB for the provision of baseload. This is the case even where capacity is increased by building excess renewables, as the stabilisation is still provided by interconnectors.

Why does the Isle of Man export electricity from the CCGT?

GB is often short of dispatchable generation when intermittent renewables are not available, allowing the Isle of Man to export electricity produced from the CCGT. Emissions from electricity generated in the Isle of Man are attributed to the Island's Greenhouse Gas inventory, even if this power is exported for use in the UK.

How has electricity demand changed on the Isle of Man?

The annual electricity demand on the Isle of Man has gradually declined since 2012. Between 2012 and 2019, annual demand decreased by 17 GWh, or approximately 5%. The drop in annual electricity demand has been driven by decreases in residential and commercial demand; however, industrial demand has increased.

We're working with the Isle of Man to support its ambitious renewable energy and net-zero emission targets - and achieve all the social, economic, and environmental benefits that can come with that.

o In December 2020, the Isle of Man Government launched its Future Energy Scenarios (FES) Strategy to determine the pathway to meet the following:

- o Electricity generation is now responsible for around 33% of all Greenhouse Gas Emissions on the Isle of Man.

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With the Isle of Man committed to net zero carbon emissions by 2050, the Energy & Sustainability Centre (ESC) promotes education and collaboration between industry, government, academia and society as a whole. Our mission is to progress a sustainable economy and a fair energy transition for islands and small nations.

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We've been providing energy on the Isle of Man for 186 years, changing with emerging technologies and adapting to meet our customers' needs. We need to adapt again now, so that we can continue to provide good service and play our part in minimising the island's reliance on fossil fuels.

The Isle of Man Government has committed to two ambitious targets for Electricity generation in support of the Climate Change Transition: 1) Securing no less than 75% of the Island's electricity from renewable sources by 2035

Topics up for discussion during the session included the importance of energy security for the Isle of Man, biodiversity, environmental impact and the innovative initiatives being spearheaded by groups, organisations and businesses across Manx society to initiate change.

The Isle of Man Government has legislated to reduce its greenhouse gas emissions to net zero by 2050 and have an ambitious interim target to decarbonise the power sector by 2050. The Department of Environment, Food & Agriculture plays a key role in the important work of exploring the possible routes towards Government's targets and ...

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