

# Isle of Man storage hydropower

How much electricity does the Isle of Man need?

Therefore, the Isle of Man currently requires (as a minimum) a generation asset with capacity up to 30MW for use during peak-demand to produce an estimated 15.3 GWh per year. Therefore, 15.3 GWh would be required from domestic generation, which would represent 3.5% of current electrical generation and reducing total CO<sub>2</sub>e emissions by c.23%.

Can the Isle of Man rely on gas and oil?

It's clear that like all leading economies the Isle of Man cannot rely on gas and oil indefinitely. While the island's target to achieve net-zero by 2050 may seem far away, most of us worry about the current price of energy. Graph showing options to generate renewable power, store energy and utilise power on the Isle of Man.

Will the Isle of Man be short of baseload power?

Both UK and RoI are predicted to become short of baseload power over the next decade. Opportunities for the Isle of Man to provide stabilising power to GB or ROI from a large-scale baseload power station, e.g. biomass or a small modular reactor? Neither option is without challenge, but likely provide the greatest potential for export.

Can the Isle of Man provide stabilising power to GB or ROI?

Opportunities for the Isle of Man to provide stabilising power to GB or ROI from a large-scale baseload power station, e.g. biomass or a small modular reactor? Neither option is without challenge, but likely provide the greatest potential for export. These options have not been explored in the analysis.

How will a wind farm impact the Isle of Man?

Environmental: The development of a 700-800 MW capacity wind farm in Manx territorial waters will provide the IoM with renewable, zero carbon electricity. Such a development will play a key role in decarbonising the Isle of Man economy to meet net zero targets.

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.

o The Isle of Man (IoM) government has legislated to reduce its greenhouse gas (GHG) emissions to net zero by 2050. Achieving this target, requires transitioning the existing electricity network ...

With the Climate Change Act 2021, the Isle of Man has committed to net zero emissions of greenhouse gases by 2050. This represents the greatest transformation Manx society has ever experienced, impacting power

production and use, heating ...

We want to use our experience and expertise in offshore wind to help the Isle of Man truly realise its ambitions and the objectives established under the Climate Change Plan 2022-27: 100% ...

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Using a selection of renewable power and energy storage projects, an area equivalent to less than 2% of Manx territory is sufficient to supply the entire energy needs of the Isle of Man by...

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for the Isle of Man The key points are: - Each scenario uses varying levels of onshore wind/ offshore wind, biomass, solar power and storage technologies alongside interconnectors which provide resilience and security of supply. - Two of the ...

Graph showing options to generate renewable power, store energy and utilise power on the Isle of Man. The costs are before-profit averages assuming the investments are spread over 20 years, shown both as per kWh (kilowatt hour) and as per person per year.

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We want to use our experience and expertise in offshore wind to help the Isle of Man truly realise its ambitions and the objectives established under the Climate Change Plan 2022-27: 100% renewable electricity by 2030 and net-zero emissions by 2050.

With the Climate Change Act 2021, the Isle of Man has committed to net zero emissions of greenhouse gases by 2050. This represents the greatest transformation Manx society has ...

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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.

o The Isle of Man (IoM) government has legislated to reduce its greenhouse gas (GHG) emissions to net zero

by 2050. Achieving this target, requires transitioning the existing electricity network to a low or zero carbon system.

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