



# Saint Helena greening the grid

How does connect Saint Helena generate electricity?

At present approximately 75% of the islands electricity is generated from burning fossil fuel (diesel). We have 4 generators which have a total capacity of 5,400kW. Connect Saint Helena Ltd is committed to reducing reliance on diesel power generation by harnessing renewable energy sources.

Does St Helena have double-glazing?

You can see the 2017 figures (right). St Helena households and businesses have also adopted a wide range of energy saving measures, driven perhaps by the very high cost of electricity on the island (in 2014 it was up to £0.42p per Kwh, depending on consumption). Double-glazing is, however, uncommon on St Helena - it is rarely cold.

How many generators does connect Saint Helena have?

We have 4 generators which have a total capacity of 5,400kW. Connect Saint Helena Ltd is committed to reducing reliance on diesel power generation by harnessing renewable energy sources. Renewable energy is cheaper to produce and does not harm the environment.

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This document sets out a plan for phased delivery of improvements in the energy sector on St Helena, particularly to support plans for energy transition on St Helena. The Energy Delivery Plan recognises that globally countries are making every effort to reduce

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These Guidelines are interim only, pending a wider Grid Impact Assessment of the electricity grid in St Helena. The purpose of this work is to understand how the grid is affected as increasing ...

In April 2018 the Government of St Helena announced it had chosen a supplier to provide a renewable energy solution for St Helena, aiming for 100% renewable electricity by 2027. After lengthy contract negotiations it was announced on 29 th May 2020 that an agreement had been signed with PASH Global .

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renewables by the year 2027/28, sooner if possible.

To become 100% self-sufficient on the national grid, through renewable energy by 1st April 2022 (SHG Energy Strategy, 2016 ). Ensure energy and water use per capita is maintained at baseline levels or better.

Connect Saint Helena Ltd generates electricity in 3 ways: Diesel Powered Generators at the Power Station in Ruperts; Wind; Solar; Electricity from Diesel At present approximately 75% of the islands electricity is generated from burning fossil fuel (diesel). We have 4 generators which have a total capacity of 5,400kW.

Wind-Diesel Hybrid System St. Helena. The St. Helena project started in 1998, when three Lagerwey 18/80 turbines were installed on the island. In 2009, Wind Energy Solutions (WES) increased the number of turbines to a total of six by adding three WES80 80 kW wind turbines.

To become completely energy independent however, St. Helena's electrical grid must be substantially overhauled to be able to support new renewable generators and storage elements, together with demand-side management of large industrial loads and intelligent residential usage.

St Helena's strategy for 100% renewable energy will make the Island a leader among UK Overseas Territories. Using a combination of solar, wind and storage, St Helena intends to reduce its reliance on fossil fuels, high import costs and volatile market prices.

St Helena became famous as the place of exile of Napoleon Bonaparte. Today the island near the west coast of Africa formally belongs to the UK. Following the installation of SolarWorld photovoltaic modules, the island now has the highest proportion of wind and solar energy feeding into the grid out of all regions in the UK.

These Guidelines are interim only, pending a wider Grid Imp act Assessment of the electricity grid in St Helena. The purpose of this work is to understand how the grid is affected as increasing numbers of private PV systems are connected to the grid. The Grid Impact Assessment will quantify the safe

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