

# RENEWABLE ENERGY: DELIVERING FOR GLASGOW



Across Glasgow, Scotland's renewable energy industry is working to harness our world-leading natural resources to generate the clean energy we need to run our lives while tackling climate change.

This factsheet shines a spotlight on just some of the renewable energy projects in Glasgow which are building healthier communities, creating green jobs and investment and making vital progress in tackling the climate emergency.

## Renewable energy facts: Glasgow

1. 72% of the region's renewable energy capacity is bioenergy, followed by solar at 23% and onshore wind at 5%.<sup>1</sup>
2. Scotland has 11.9GW of renewable electricity generation capacity – 46MW are in Glasgow.

## Renewable Heat at the Athletes Village

The Athletes Village built for the 2014 Commonwealth games in Dalmarnock is at the forefront of low-carbon heating. The heating system from Vital Energi comprises a 1.68MW Combined Heat and Power (CHP) technology housed in a purpose-built new Energy Centre building which, through a 28km network of buried pre-insulated pipes, supplies heat and hot water to 704 homes across the Athletes Village, the Sir Chris Hoy Velodrome and a 120-bed care home.

Helping to reduce the overall carbon emissions at the Commonwealth Games by 95%, The Energy Centre at the Athletes' Village leads the way for a sustainable Glasgow. The project provides low-carbon heat, reduces heating bills and makes this new neighborhood an exemplar in net-zero

solutions. The Energy Centre has also created green jobs with a team of seven local engineers maintaining and operating the system 24/7. Future proofed for further expansion, this network has the potential to interconnect with other district heating schemes across Glasgow.

Scottish Renewables is calling for The Scottish Government to deliver and expand heat networks across Scotland's cities and towns.

1. <https://www.vitalenergi.co.uk/our-work/commonwealth-games-athletes-village-operation-maintenance>



## ScottishPower Renewables

Headquartered in Glasgow, ScottishPower which includes ScottishPower Renewables and ScottishPower Networks, is the first integrated energy utility in the UK to have 100% of its generation of electricity from renewable sources. Employing more than 6,000 people, ScottishPower plans to invest £3.7 billion to increase its renewable capacity across the UK.<sup>2</sup>

ScottishPower Renewables now has more than 40 operational wind farm sites which produce more than 2,800MW of clean energy and power around 2.1 million homes. This

includes Whitelee, the UK's largest onshore windfarm, which is located just 20 minutes from central Glasgow. Its 215 turbines generate up to 539 megawatts of electricity, enough to power more than 350,000 homes.<sup>3</sup>

Scottish Renewables is calling for a low-carbon assessment to be introduced into Scotland's planning system to ensure more renewables developments can proceed.



## Solar Power at Police Scotland

Scotland is blessed with long hours of summertime daylight, and with solar PV technology this resource can be harnessed to power our public buildings. Police Scotland is doing just that at its London Road site in Glasgow's East End, where it worked with Locogen Consulting to install a 28kWp solar PV system across its rooftop. Locogen designed a high performance specification to ensure Police Scotland benefited from the expected generation. Locogen then acted as owner's engineer on behalf of Police Scotland throughout

the installation of the solar PV system to ensure it was installed in line with the specification and planning approval, delivering a high quality and robust renewable energy solution.

Research for Scottish Renewables by Fraser of Allander Institute has shown that across Scotland solar PV supports a total of 1,070 jobs, helping to create the green skills we need for our net-zero future. The solar PV industry also provides Scotland with an economic output of £120 million.

The Scottish Government can lead a clean energy revolution by ensuring commercial, industrial and public sector buildings harnesses their full solar energy potential.



- [https://www.scottishpower.com/pages/scottishpower\\_at\\_a\\_glance.aspx](https://www.scottishpower.com/pages/scottishpower_at_a_glance.aspx)
- <https://www.whiteleewindfarm.co.uk/whitelee-windfarm-about-us>

To read more about how renewable energy can support your constituents, please visit our hub for MSPs

