

The Science and Industry Museum awarded £4.3m by the Public Sector Decarbonisation Scheme to place zero-carbon technology at the heart of the museum's visitor experience.

A visionary decarbonisation project

The Science and Industry Museum explores how ideas can change the world, from the industrial revolution to today, on a globally significant industrial heritage site. The decarbonisation project, funded through the Public Sector Decarbonisation Scheme, will look to combine the original and modern for a sustainable museum of the future.

Thanks to the scheme, around 515 tonnes of carbon will be saved per year, supporting the Science Museum Group's goal to reach net-zero by 2033, 17 years ahead of the national target, and contribute towards Greater Manchester's goal to become carbon neutral by 2038.

The funding will place carbon literacy and zero-carbon technology at the heart of the museum's story and visitor experience and transform its Power Hall into a landmark symbol of the future, as well as historic engineering.



Culture Secretary Oliver Dowden visiting The Power Hall, with Science and Industry Museum Director Sally MacDonald

"The museum's site represents where science met industry and the modern world began - what happened here changed the world, triggering a revolution in trade, technology, travel and time. We are delighted that this funding will enable us to continue to innovate as we create an environmentally sustainable museum for the future."

Sally MacDonald, Director at The Science and Industry Museum

**Grant value:
£4.3m**

**Annual carbon savings:
515 tonnes**

For more information...

Please contact us on **020 4542 6439**
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Technical Overview

- The power of ground water, first used on the site in the 1800s, will be will once again be utilised by the installation of a new water source heat pump network and bore holes.
- Installation of roof insulation, glazing, an electric boiler, ground source heat pump and a new building energy management system to the Power Hall (an industrial heritage gallery).
- £1.7m investment in site-wide electrification of the entire museum's heating system through additional air source heat pumps.
- LED lighting in the 1830 warehouse and instant hot water and a new building management system to monitor and control energy use of the New Warehouse.

Benefits

- 515 tonnes of carbon saved per year, the equivalent to the average emissions of over 30 UK homes annum, improving every year as the electricity grid decarbonises through increased zero carbon generation.
- 100% of energy purchased from renewable sources.
- 65% reduction in carbon emissions by 2030 enabled thanks to multiple upgrades to the 1830 warehouse.
- Upgrades to the Power Hall will reduce emissions by 60% by 2030.
- The Power Hall will help prime future progress through inspiring future scientists, entrepreneurs and innovators in developing careers and skills to help achieve a green economy and the next (green) industrial revolution.

The museum's sustainability plans

- Work originally began in 2019 to restore the Grade II listed Power Hall to implement major repairs to the roof and redisplay of the gallery content to showcase how Manchester changed the world.
- The roof has undergone a critical drying-out period whilst the museum worked hard to renew its sustainability plans to decarbonise the building before work begins on the inside of the building.
- The decarbonisation project is part of the museum's multi-million-pound restoration plan which will conserve and further open-up its globally significant buildings.
- The museum is home to the world's oldest surviving passenger railway station and worlds first railway warehouse in the heart of the first industrial city. A more sustainable museum is being created to provide inspiring experiences for everyone.
- More information about the museum's large-scale plans can be found on their website.



Public Sector Decarbonisation Scheme (PSDS)

- The Department for Business, Energy and Industrial Strategy (BEIS) launched the PSDS, which was delivered by Salix, in September 2020.
- The scheme offered £1bn of grant funding for capital energy efficiency and heat decarbonisation projects within the public sector in England.
- Information about the PSDS and further schemes can be found on the Salix website.

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