

POWER HALL + DECARBONISATION VISION

April 2021

Revolution Manchester

Innovation is in our DNA. Revolution in progress.

The Science and Industry Museum is the most visited museum in Manchester and one of the top attractions in the North. The Museum explores how ideas can change the world, from the industrial revolution to today and beyond, from a globally significant industrial heritage site.

The Science and Industry Museum is on the site of Liverpool Road Station, the Manchester terminus of the Liverpool and Manchester Railway and the world's first purpose-built passenger railway. What happened here changed the world, triggering a revolution in trade, technology, travel and time. It is where science met industry and the modern world began.

A long-term, multi-million-pound restoration programme is underway to carry out crucial restoration work and reveal new spaces and perspectives for all visitors to enjoy, play and learn in.

The Power Hall

Built in 1855 as the shipping shed for Liverpool Road Station, the world's first purpose-built passenger railway station, the Power Hall is one of the most beloved industrial heritage galleries in the country. It houses Europe's largest collection of working steam engines, the majority of which were built in Manchester. However, it needs refurbishment, both the fabric of the building and the gallery space.

Design work began in 2019 to restore the globally important Grade II listed Power Hall, thanks to £6 million from the Department of Digital, Culture, Media and Sport and additional funding from the Science Museum Group to facilitate urgent and major repairs to the roof and gallery refurbishment. In years to come, this multi-sensory gallery, full of the sounds of machines, the whistle and smell of steam and incredible personal stories will show how Manchester provided the power that changed the city and the world.

Decarbonisation

The Science and Industry Museum, part of the Science Museum Group, has been awarded £4.3 million by the Government's Public Sector Decarbonisation Scheme to substantially improve energy efficiency and lower carbon emissions across this globally significant site. This grant will enable the museum's environmental sustainability and support Greater Manchester's goal to become carbon neutral by 2038 – 12 years ahead of the national target.

In 1830 a well was built on the site to harness the power of the ground water, this natural resource will once again be utilised by the installation of a new water source heat pump network and bore holes along with the latest green technologies, this is a visionary, sector-leading project where the original and modern combine for a sustainable museum of the future.

The funding will place carbon literacy and zero carbon technology at the heart of the museum's story and visitor experience. It will transform the Power Hall into a landmark symbol of the past, present and future of engineering, inspiring future scientists, entrepreneurs and innovators in developing careers and skills to help achieve a green economy and the next (green) industrial revolution.

Project Timeline

2021: Submit applications
 2021: Public Sector Decarbonisation Scheme site-wide and Power Hall works
 2022: Remove scaffolding and start internal works to Power Hall
 2023: Power Hall reopens

Planning and Listed Building Consent Applications

The Power Hall + Decarbonisation project is to be delivered as one project. However, the Planning and Listed Building Consent applications must be split into several separate applications due to the different Listings of the buildings and the deadlines for the Government's Public Sector Decarbonisation Scheme which needs to be completed this year. Splitting the consent packages will allow construction work to start on site earlier and ensure we meet the Government deadlines.

Below is the timeline for the applications:

WORK PACKAGE	PLANNING MECHANISM	SUBMISSION DATE
1A: - Water Source Heat Pump Network (External) - Water Source Heat Pump and other associated plant in the Power Hall	- Application for Listed Building Consent for alterations to the Grade II Listed Power Hall for the creation of openings and the installation of plant plus the introduction of a services trench within its curtilage. - Application for Listed Building Consent for installation of a services trench within the curtilage of the Grade II Listed New Warehouse.	April 2021
1B: - Boiler House External Modifications (to facilitate installation of a new sub-station) - Pipework in the 1830 Warehouse (to facilitate installation of a new water source heat pump)	- Application for Planning Permission for external works to the Boiler Room including removal of an external staircase and making good in addition to the installation of a new balustrade and new doors. - Application for Listed Building Consent for alterations to the Grade I Listed 1830 Warehouse for the creation of openings and the installation of pipework plus the introduction of a services trench and borehole cover within its curtilage.	April 2021
2: Power Hall Roof and 1980s Platform Removal (to allow early investigative work)	Planning Permission & Listed Building Consent	May 2021
3: Power Hall New Roof, Windows & Doors	Planning Permission & Listed Building Consent	May 2021
4: Power Hall Gallery Refurbishment	Planning Permission & Listed Building Consent	Autumn 2021