



Paul Butler Associates

Planning, Development & Heritage Consultants

20 July 2021

Mrs Julie Roscoe
Head of Planning
Planning Department
Manchester City Council
PO Box 532
Town Hall Extension
Manchester
M60 2LA

21.1557/MossSide/ljr01dt

Dear Julie,

Moss Side Leisure Centre, Moss Lane East, Moss Side, Manchester, M15 5NN

**Application for a Lawful Development Certificate for a proposed Air Source Heat Pump System:
Town and Country Planning Act 1990: Section 192, as amended by section 10 of the Planning and
Compensation Act 1991**

Introduction

On behalf of my client, Ameresco Limited, please find attached an application for a Lawful Development Certificate to confirm the proposed installation of an Air Source Heat Pump system at the Moss Side Leisure Centre, Moss Lane East, Moss Side, Manchester, M15 5NN is lawful and does not require a planning application to be submitted for the proposed works.

Site Location

The Moss Side Leisure Centre accommodates a community library facility and a leisure centre which comprises two swimming pools, a gym, a studio, a health suite/spa, two sports halls and three squash courts. The building is open to the public from 06:30-22:00hrs Monday to Friday, 09:00-17:00 on Saturday and Sunday. The building is not nationally listed or locally listed. The building is not in a Conservation Area. No specific land use designations have been identified which relate to the premises.

The Context

Greater Manchester has been awarded over £78m in Central Government funding to support energy efficiency upgrades to more than 150 public buildings across the city-region, helping to cut emissions and create new jobs.

The award was the result of a successful bid from Greater Manchester Combined Authority (GMCA) and 14 other partners to the Government's Public Sector Decarbonisation Scheme (PSDS).

Buildings and organisations across the public estate set to benefit from retrofitting measures include Manchester University NHS Foundation Trust, Greater Manchester Fire and Rescue Service,

Transport for Greater Manchester, Greater Manchester Police, the Royal Northern College of Music, the National Cycling Centre, and facilities including leisure centres, schools, and offices.

The measures will include the installation of air source heat pumps for heating, solar panels to generate and create electricity, insulation and LED lighting to improve energy efficiency, and energy monitoring and control systems to ensure these public facilities can accurately measure their energy usage.

The application proposal forms a discrete part of this wider initiative and aims to deliver air source heat pump derived energy, thereby helping to lead the carbon neutral agenda in Manchester.

The Proposals

As part of the Public Sector Decarbonisation Scheme (PSDS), Manchester City Council are seeking to decarbonise their heating system by introducing energy efficiency improvements within their facilities. This would support their long term goals of becoming carbon neutral by 2038 across all areas of their operation. The driver for these works is maximising long term carbon savings for the site and the project involves retrofitting an Air Source Heat Pump system into the existing heating systems at Moss Side Leisure Centre.

The system would have a thermal output of approximately 120 kWth. The heat pump and the system integration are designed so as to maximise annual efficiency and maximise annual running hours. The proposed pumps will be located within the basement in an area which serves as a store and is located between an existing boiler room and plant rooms. The system will discharge clean cold air into the basement service/car park area at high level and no external elevational vents are necessary.

Each heat pump unit shall be supplied with independent MID compliant heat output and electrical input meters which are to be interfaced with the building management system for remote monitoring. Meters will be positioned to enable them to be removed for calibration without impacting any other services except the heat pump.

The design and installation shall comply with the latest UK Building Regulations and the latest European and UK standards. With regard to mechanical and electrical requirements, the system shall comply with the following standards as are relevant to the installation, including:

- BS EN 14511-2:2018 Air conditioners, liquid chilling packages and heat pumps for space heating and cooling and process chillers, with electrically driven compressors. Test conditions.
- BS EN 14825:2018 Air conditioners, liquid chilling packages and heat pumps, with electrically driven compressors, for space heating and cooling. Testing and rating at part load conditions and calculation of seasonal performance.
- BS EN 15316 Energy performance of buildings. Method for calculation of system energy requirements and system efficiencies.
- BS EN 15450:2007 Heating systems in buildings. Design of heat pump heating systems.
- BS 7671 – Requirements for Electrical Installations. IET Wiring Regulations 18th edition.

- BS EN 62305 – Protection against lightning. Risk management.
- BS 7430 - Code of practice for protective earthing of electrical installations.

It is noted that the existing solar panels at the Centre are proposed to be supported by a new battery storage system to be located inside the building for increased self-consumption by utilizing more of the generated energy on-site with a provision to access revenue streams by using the Battery Energy Storage System (BESS) for Demand Side Response Services in the future. The location of the BESS system is also proposed to be internal and does not require planning consent.

Planning Appraisal

The existing building is a Leisure Centre. The proposed works include the installation of an Air Source Heat Pump (ASHP) system comprising of three integrated and linked heat pumps which will be retrofitted into the existing heating systems of the building to deliver carbon savings for the Leisure Centre. The works do not constitute a material change of use and will take place within the basement of the building. They do not involve any exterior changes to the building envelope. Planning permission is judged not to be required.

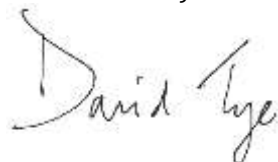
The Submission

The following information has been submitted in support of the application:

- Completed Application Form dated 20 July 2021 prepared by Paul Butler Associates.
- 01 Covering letter prepared by Paul Butler Associates: Ref 21.1557/Moss Side/ljr01dt.
- 02 Site Location Plan prepared by Ameresco.
- 03 MCC Moss side ASHP installation Existing & proposed layouts and elevations 10850-20-00-PLDWG-0006 Rev 0 prepared by Ameresco.
- 04 ASHP Technical Information (Carrier 61AF 055B).

The application fee £231 will be paid shortly after submission by Ameresco Ltd. I look forward to receiving confirmation that this application has been registered. In the meantime, if you require any further information please do not hesitate to get in touch.

Yours sincerely



David Tye BSc MTPI MRTPI
Director

CC Dipak Shah, Akash Vadher & Liam Pech (Ameresco Ltd)
Philip Owen (Zero Carbon Estate, Programme Manager, Manchester City Council)
Corporate Estates (Manchester City Council)