

Site Decarbonisation Strategy Outlines Pathway to Total Carbon Reduction

CLIENT | LOCATION

Global Pharmaceutical Manufacturer | France

SECTOR

Life Science – API

PROJECT BRIEF

The client had made the ambitious commitment to achieve net zero carbon by 2025. To successfully deliver this, support was needed to understand opportunities on-site for carbon reduction in time for this target.

In an endeavour to decarbonise, the site had already switched to renewable electricity meaning the next step was to deliver a site zero carbon strategy that would consider the remaining opportunities to reduce the site's carbon impact. These were focused on removing gas use completely, in line with organisational objectives for scope 1 and 2 emissions.

METHODOLOGY

To fulfil this, EECO2 energy experts collaborated with the client and site team to deliver a heat pump feasibility study as part of the site decarbonisation strategy. The study involved a site survey, estimation of heating load using gas consumption and a report assessing and analysing the different options available to the site, based upon temperature set-point and heating demand.

SOLUTION

As a result of this process, a total of 6 different options for site decarbonisation were explored. These options were considered on a basis of carbon and cost reduction as well as the total investment cost. The client then received recommendations from the EECO2 team as to which path to follow. The client was successfully able to visualise the practical delivery of the proposed actions thanks to an 8-step breakdown detailing the means of success for the site team.

RESULTS

Gas savings identified (per year):

6,091 MWh (100% reduction)

Carbon savings identified (per year):

1,120 tCO₂

