

On-Site Energy and Water Assessment Workshop Event at Global Pharmaceutical Manufacturer

CLIENT | LOCATION

Global Pharmaceutical Manufacturer | France

SECTOR

Life Science – Medical Devices

PROJECT BRIEF

The client was aware of an annual energy spending increase and wanted to have a greater understanding of the site's energy consuming processes but was unsure how to achieve this independently. Any identified opportunities for improving energy efficiency would need to be communicated with key stakeholders, as well as being economically viable and within the clear and defined scope.

Another challenge faced by the site team was the lack of knowledge around best practice and water management, as such any project undertaken must be both informative and educational on these matters.

METHODOLOGY

The site team collaborated with EECO2 energy experts to deliver an on-site energy and water reduction assessment workshop. The workshop allows for the transferring of best practice from EECO2 engineers to the local site team. Throughout this process, the project is supported by EECO2 data analysis that delivers a bespoke site energy and water model which is verified during the workshop process. In collaborating in this way, it is possible to rapidly identify and quantify realistic energy reduction opportunities whilst on site.

The project allowed the site team to visualize and prioritise significant energy, carbon and water reduction projects that were viable for implementation.

SOLUTION

As a result of the assessment workshop, the client was able to prioritise 26 different projects. In total 90 ideas were captured with 21 investigations taking place across the entire site. Overall, the average payback time of these projects was 3 years.

SOLUTION

To bolster the site's drive for decarbonisation, opportunities were identified for onsite solar and wind, with the combined potential for 5.8MW renewable energy generation. This was considered in conjunction with renewable heating opportunities.

RESULTS



Total savings identified (per year):

9,770 MWh (24% reduction)

Carbon savings identified (per year):

1873 tCO₂ (26% reduction)

Total cost savings identified (per year):

€615,000 (26% reduction)

With an average simple payback period of 3 years.

