

# FEASIBILITY STUDY ON HVAC PROJECTS AT API SITE

## CLIENT | LOCATION

Global Pharmaceutical Manufacturer | Ireland

## SECTOR

Pharmaceutical Manufacturing -  
Active Pharmaceutical Ingredient (API) Manufacturing

## PROJECT BRIEF

A pharmaceutical client site that manufactures APIs in Ireland was developing an energy saving plan for the whole site, to reduce energy, carbon emissions and energy cost.

The client engaged the EECO2 team to work up potential projects in more detail and also generate new ideas. EECO2 was commissioned to provide HVAC feasibility studies for energy reduction projects.

## METHODOLOGY

The team began with a data collection exercise, liaising with site team, followed by a desktop review and initial analysis.

## METHODOLOGY CONT.

The next step was a visit to the client site, to get a physical understanding of the issues, constraints and client expectations. The site survey helped to discuss and establish the critical requirements of the projects.

After the site visit, the team performed more detailed calculations and provided the site with the feasibility report and proposed the developed energy efficiency projects solutions in some detail. This included estimated cost breakdowns to allow a decision on whether the site would like to proceed in each case.

## SOLUTION

The solutions below were involved in the 5 major HVAC projects refined by the feasibility study:

- Air Change Rate Reduction
- AHU fan efficiency improvements
- Variable air flow volume system
- HVAC recommissioning to optimise system effectiveness



## RESULTS



Energy savings identified (per year):

**2,840 MWh**

Energy cost savings identified (per year):

**€174,000**

The client site continues to work through and implement the suggested projects and aims to reach the savings predicted.

## FOR FURTHER INFO

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