

# Delivering Utility Solutions from Concept Through to Completion

## At a Glance



- Delivered a New Energy Centre to replace 3rd party supplied utilities.
- Projective led from early concept through to detailed Mechanical and Electrical Engineering (M&E) design and implementation.
- Provided technology and support driven by the client's needs.
- Overcame spatial, coordination, and post-Covid supply chain challenges.
- Developed an efficient Energy Centre providing for the client's long-term goals.

## ► Client-Centric Solutions

Our client is well established globally within the pharmaceutical sector and specialises in the development and manufacture of allergy immunotherapy treatments. Their production facility had previously been supplied with utilities from a neighbouring factory. These utilities were to be disconnected, so the client required a new energy centre to be designed and built to provide ongoing utility requirements, including electrical power, steam, cooling water and compressed air.

Projective took the time to understand the client's needs, engaging with all parties from the outset to identify gaps and misalignments. Through this collaborative approach, we delivered a tailored design solution that fully supported the client's long-term goals.

## ► Design and Build Responsibility

Projective supported the project from early-stage discussions through to detailed design across mechanical, electrical and automation systems. Our design addressed key operational challenges, delivering a resilient, integrated solution. We also oversaw implementation to ensure a smooth transition from design to delivery.

Projective took on the role of both the CDM Principal Designer and the CDM Principal Contractor (for the M&E phase) for the project.



## Utility Plant Summary



### Steam System

**2 x 1.2MW**

Natural gas fired steam generators



### Compressed Air System

**2 x 22kW**

Oil Free VSD Compressors



### Cooling Tower System

**2 x 1.5MW**

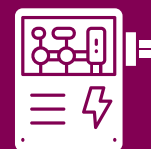
Evaporative cooling towers



### Control System

**NEW BMS**

Providing control, monitoring and alarming



### Electrical System

**2 x 1.25MVA**

Transformers, new electrical incomers and infrastructure



### Ancillary Systems

**NEW EQUIPMENT**

Mains water, process water, chemical dosing, fire alarm and gas alarm systems

## ► Navigating Challenges

Challenges to the project came from:

- Limited space availability at the site to install the required plant.
- Constructability and operability being key elements of the design process.
- Supporting the client and the client's team through the design and build process.
- Overseeing and coordinating the various utility network providers, including new off-site utility connections.
- The initial phases of the project were during and after Covid, which led to difficulties in both the completion of initial discussions and in material prices that escalated post-Covid.



## ► Future-Ready Energy Centre Delivered

Projective supported the client through the process, ensuring their needs were met. The overall solution provided the client with a new Energy Centre and electrical infrastructure that provided their production facilities with a reliable, robust and efficient utility supply.