

ENERGY ASSESSMENT AT PHARMACEUTICAL MANUFACTURING SITE IN JAPAN

CLIENT | LOCATION

Global Pharmaceutical Manufacturer | Imaichi, Japan

SECTOR

Pharmaceutical Manufacturing

PROJECT BRIEF

EECO2 was to provide the client with principle consultancy expertise to support an Energy Assessment with their GMS manufacturing chain. Along with the site team and the energy assessment team, EECO2 performed an energy assessment on the client site in Japan - focusing on HVAC improvements.

METHODOLOGY

Focusing on the HVAC system on site, the EECO2 team completed the following:

1. Data collection & energy mapping
2. HVAC data collection & modelling
3. Energy Assessment support on client site

SOLUTION

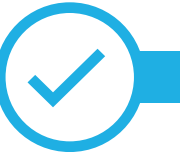
34 projects on the final project list, with 14 of them producing 80% of the savings. They included:

- HVAC Optimisations (All Site)
- Optimise Chiller Control and Setpoint of Chilled Water Temperature
- LED Upgrades
- BMS Optimisation
- Dehum Reactivation Heat Recovery (10 Units)
- Improve Condensate Recovery
- EC Fan Trials
- Switch Off Plan for Production, Offices, Labs, Comp Air Supplies

The client site has a real opportunity to deliver significant energy and cost savings over the next 5 years. Especially involving HVAC, as this is their largest saving opportunity. Any changes to the HVAC system must be done in a way that ensures no quality impact and so it is important to involve HVAC experts like EECO2.



RESULTS



4,130 MWh

Energy savings identified per year

30% reduction of site totals

38 Million Yen

Energy cost savings identified (per year)

31% reduction of site totals

1,427 tCO₂

Emissions reduction identified (per year)

The savings identified have an overall simple payback period of 3.2 years.

FOR FURTHER INFO

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