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

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 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.

FOR FURTHER INFO
T: +44 (0) 1625 660 717 E: info@eeco2.com

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