

PHARMACEUTICAL ENERGY REDUCTION ASSESSMENT WORKSHOP

CLIENT | LOCATION

Global Pharmaceutical Manufacturer | Pennsylvania, USA

SECTOR

Consumer Healthcare Product Manufacturing

PROJECT BRIEF

This was a pharmaceutical energy reduction assessment workshop including HVAC energy assessment and major capital project review.

The objectives of the workshop were to create a cost-effective plan to reduce energy consumption at the client site whilst maintaining product quality, compliance & safety. Any identified projects were expected to be practical, realistic and implementable, considering site constraints, development plans and new investments.

METHODOLOGY

Eeco2 facilitated an on-site HVAC projects and energy reduction Assessment Workshop event working together with the client site engineering team.

METHODOLOGY CONT.

- Phase 1: Data collection, analysis, energy trending and mapping
- Phase 2: On site Assessment Workshop event
- Phase 3: Final report preparation, review and action planning

Energy maps were produced by analysing the data provided by the site. The previous full year data was used to prepare the maps. These were split by uses and by buildings to identify significant energy uses and locations to focus on.

SOLUTION

The solutions below are based on 16 developed projects for the site:

- Air change reduction
- Fresh Air reduction and dehumidification
- HVAC Setback
- BAS Optimisation
- EC Fans
- Capital project design review

RESULTS



12.4 GWh

Energy savings identified per year

18% reduction of site totals

\$490,000

Energy cost savings identified (per year)

19% reduction of site totals

The savings identified have an overall simple payback period of 2.5 years and provided a strategy to deliver existing capital projects with minimum investment and maximum return.

FOR FURTHER INFO

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