

# Pharma Company Insures A Healthy Level Of Energy Efficiency Performance In New Facility

Northmore Gordon worked closely with a Singapore- based parts pharmaceutical plant over 2022 to complete an Energy Efficiency Opportunities Assessment for New Ventures as required by Singapore's National Environment Agency (NEA). The complex requirements of the Program were fully met and the report submitted on time. In addition, NG identified practical energy saving opportunities that are now being implemented as part of the new-build.

## The Client

The International Client is developing a manufacturing facility for pharmaceutical products. It is supported by utilities including Water for Injection (WFI), compressed air, air conditioning and large chiller systems, steam boilers, filling equipment, packaging systems, and cooling towers.

## The Project

To meet the requirements of the Energy Conservation Act, potential new ventures or major expansion of sites in Singapore sites that use over 54 TJ per annum need to undergo a design review, or Energy Efficiency Opportunity Assessment.

The upgrades recommended included air-cooled compressors, increase in temperature set points, heat recovery, occupancy sensors, solar PV, improved perimeter lighting, heat pumps, and optimised boiler sizing.

Northmore Gordon is a leader in environmental certificate creation and trading. We have created the most certificates of all Accredited Persons under the Victorian Energy Upgrades program, an Accredited Certificate Provider in the NSW Energy Savings Scheme, and registered agent under the Federal Renewable Energy Target.

We've provided \$100m of financial incentives for energy efficiency and renewable energy projects at over 35,000 commercial, industrial and residential sites. This has saved our clients and partners gigawatt hours of energy, millions of dollars and reduced greenhouse gas emissions by over 5 million tonnes of CO<sub>2</sub>e.

## Key Facts

- EEOA completed in line with regulation
- Annual Savings Estimates
  - Energy: 11,200 GJ
  - Carbon Abatement: 560 tCO<sub>2</sub>e
  - OPEX: ~\$200,000
- Project Details
  - CAPEX: ~\$500,000
  - Payback: ~2.5 years

## Challenges

- Competitive pressures to provide high quality service whilst minimising operating costs
- Energy bills represent a substantial cost the operations
- New equipment proposed needs to gain approval from their international parent company prior to being used.

## Additional Benefits

- Lower running costs when the new facility is built
- System flexibility whilst maintaining efficiency

## Our Role

Northmore Gordon worked very hard to complete the work to the standard required by the NEA in the line with the development timeframe. This included working with the design team, architects, and M&E contractors. The work included a detailed base case energy balance, detailed analysis of the design, identification of energy efficiency opportunities in conjunction with the Client, completion of the NEA's report template, and achieving sign-off by the Client stakeholders and the NEA.



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