

# GLOBAL PHARMACEUTICAL ENERGY REDUCTION PROGRAMME

## CLIENT | LOCATION

Top 10 Global Pharmaceutical Manufacturer | Various

## SECTOR

Pharmaceutical Manufacturing

## PROJECT BRIEF

After a successful trial in Sydney, Australia, our client went on to introduce a corporate carbon reduction programme, to be rolled out globally. EECO<sub>2</sub> worked with a further 10 of the client's key sites, in the United States (6 sites), China (2 sites), Japan, UK and Australia.

## METHODOLOGY

The EECO<sub>2</sub> team conducted the on-site energy and water reduction assessment workshop events, working together with the site engineering teams and other stakeholders. The scope included a review of opportunities in HVAC systems serving all areas, utility generation & distribution (steam, chilled water, cooling water, compressed air systems) and water systems.

## SOLUTION

EECO<sub>2</sub> recommended that the client's focus should be on rapidly implementing HVAC & BMS optimisation opportunities as these have high cost reduction, short paybacks and excellent emissions reductions.

As an example, since the event took place, one site implemented optimisation of controls on several HVAC systems, which delivered \$190k annual savings with a simple payback of 6 months.

As well as the larger energy projects, the events identified 143 'Just Do Its', which are low or no cost actions that site teams can action immediately.

The average simple payback period for all projects in this case study is 3 years.

The final report to the client showed a total avoided cost of \$50 Million per year is achievable by 2025.

The projects identified in this programme represent extremely good value investment opportunities to realise significant sustainability improvements, which will aid the client in meeting corporate targets.

## RESULTS



### Annual savings identified:

Energy cost:

**\$6.4 Million (25% reduction)**

Energy (233 Projects):

**107 GWh (22% reduction)**

Emissions:

**18,600 tonnes CO<sub>2</sub>**

Water (40 Projects):

**47 Million Gallons (22% reduction)**

...with an average ROI of 3 years.

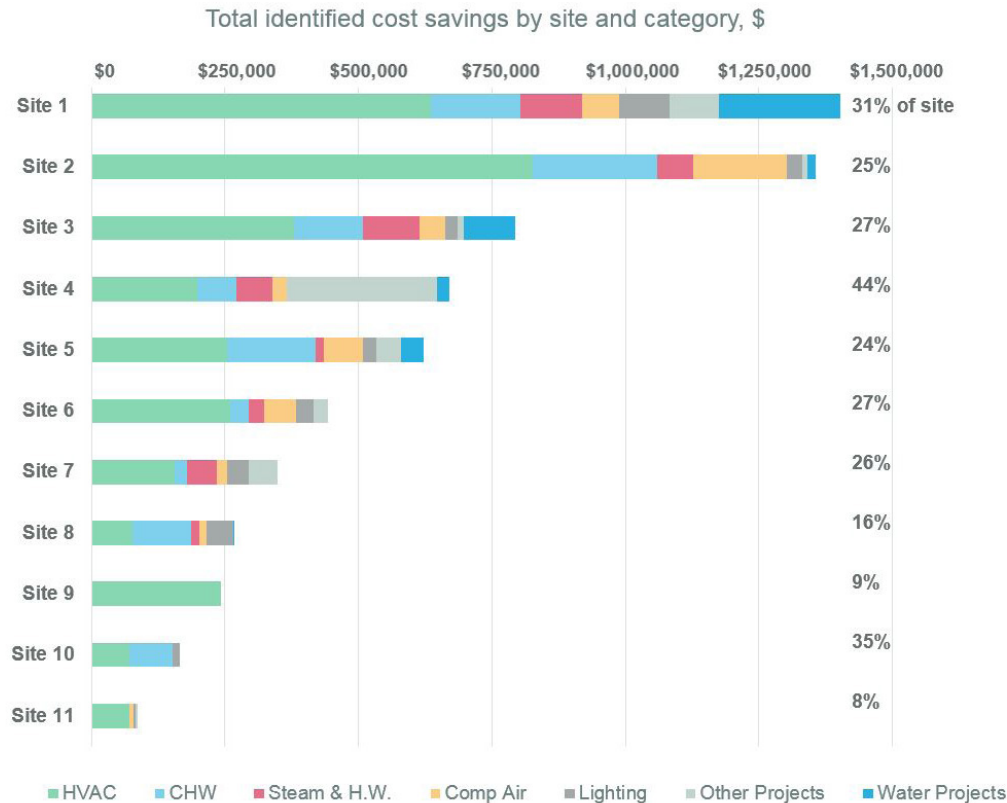
## FOR FURTHER INFO

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# GLOBAL PHARMACEUTICAL ENERGY REDUCTION PROGRAM CONT.

## RESULTS

The identified savings were quantified in each area and each site in scope. Based on 273 developed projects, if implemented according to the draft project plan developed.



## RESULTS



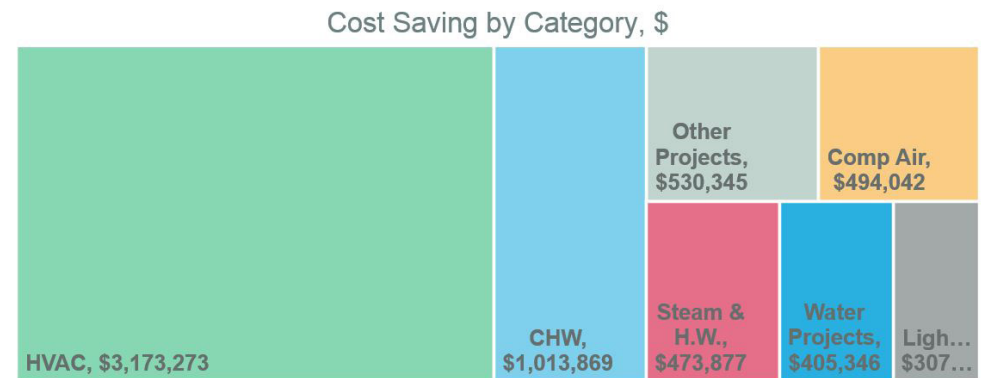
For the 11 client sites, the total annual energy saving identified was:

**107 GWh**

which is an energy cost savings of:

**\$6.4 Million per year**

...with an average ROI of 3 years.



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