

Client:	Location:	Site:	Date:	Sector:
Global Pharmaceuticals Company	Philadelphia	Upper Providence	January 2013	Pharmaceuticals & Life Sciences

## HVAC Energy Audit Outcome

### About the project:

The site is a large R&D facility located in Upper Providence. EECO2 delivered a prioritised implementation plan in order for the site to allocate budgets and resources to meet a phased implementation plan for the next 3 years in order to deliver the benefits identified.

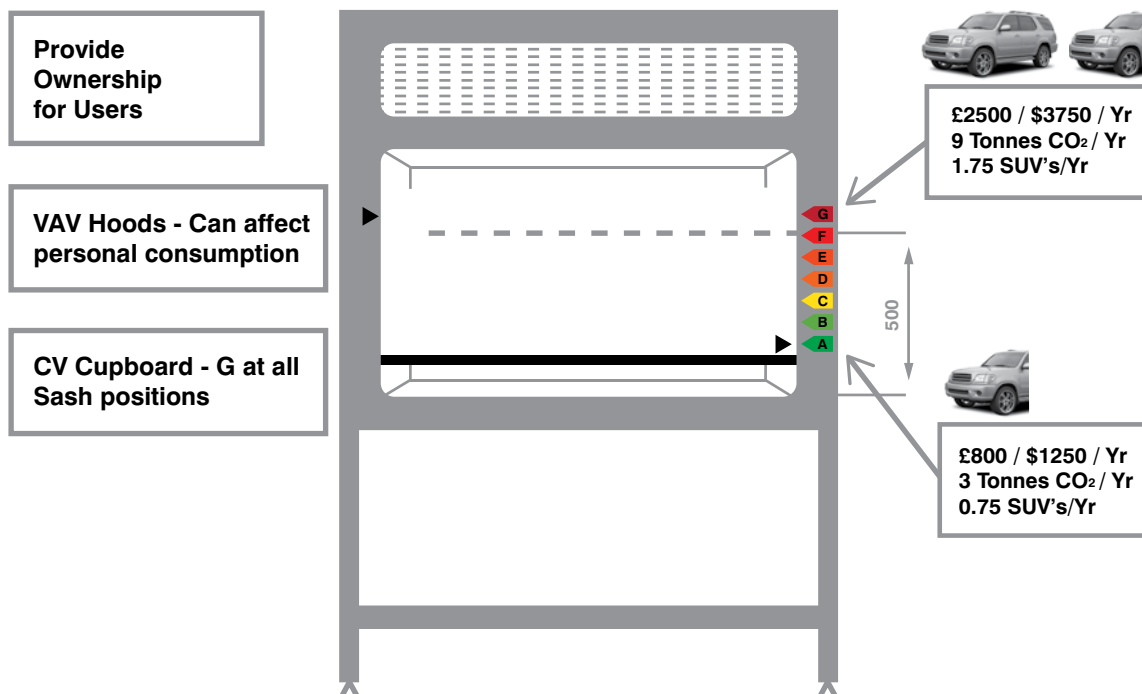
### Project Challenges:

The audit focus was to identify energy saving opportunities for the site HVAC systems that serve the extensive R&D laboratory facilities ensuring compliance with EHS best practices. The identified opportunities were prioritised based on site impact, costs and benefits and were then presented to the client with an implementation plan.

### EECO2 Energy Efficiency Services

Pharmaceutical & Life Sciences	✓
Energy Monitoring Services	
Project Management	
Energy Consultancy	✓
EPBD Compliance	
Sustainability & Renewable Solutions	





## Summary Benefits

Based on 2012 figures

Description	kWh	\$	T.CO <sub>2</sub>
Air change reduction	2,964,727	160,816	1,507
HVAC Set Back / OFF	8,540,603	374,320	2,664
Fresh Air reduction	8,556,631	197,337	2,280
BAS Optimization	5,914,446	458,313	3,006
EF Motors & VSD's	955,914	74,074	486
High Efficiency Filtration	484,305	37,529	246
Current 2012 / 2013	3,578,678	156,848	1,116
<b>Totals</b>	<b>30,995,304</b>	<b>1,459,237</b>	<b>11,304</b>
<b>% of HVAC Totals</b>	<b>35%</b>	<b>37%</b>	<b>41%</b>
<b>% of Site Totals</b>	<b>22%</b>	<b>22%</b>	<b>24%</b>

For further information:

### GENERAL ENQUIRIES & SALES

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### TECHNICAL SUPPORT

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