

# Project Knowledge – Lab AHU Heat Recovery by Oxford University



## BEFORE:

- 11,563 MWh consumed
- £260,000 /year running cost

## AFTER:

- 4 Units at £39,986 per unit installed
- £33,335 /year savings
- Payback of 4.8 years
- 232 tCO<sub>2</sub> saved per year



[Project completion date – September 2010](#)

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## Supporting Comments:

- Building designed with AHU heat recovery units but removed during value engineering exercise prior to construction, so space available.
- The expected energy and cost savings were calculated from measured air flow rates, average winter external temperature and supply temperature. Heat recovery efficiency of 48% calculated from data sheets.
- Assumed gas cost 3.5 p/kWh
- Supplier - Envira Mechanical
- Project managed by Norland Managed Services
- Detailed design required
- Close liaison with building users who demanded weekend shutdowns

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