



UNSW
SYDNEY



Energy Efficiency and Renewable Energy Integration into Industry

Using expertise in energy metering and monitoring to develop and implement energy efficiency solutions.

Competitive advantage

- The development and implementation of energy efficiency road maps
- Strategic energy metering and monitoring
- Holistic energy efficiency assessment in industry
- Energy accounting from process department to factory level
- Renewable energy integration into factories through micro-grids
- Management of energy supply and demand in factories

Impact

- Helping industry to save money and go 'greener' by increasing energy efficiency and integrating renewable energy into their operations.

Successful applications

- Significant reduction in energy cost and associated environmental footprint in the aluminium, pharmaceutical, metal fabrication, waste management and heavy engineering industries. In particular,
 - 45% energy consumption reduction in aluminium industry
 - 51% energy consumption reduction in pharmaceutical industry
 - 43% energy consumption reduction in metal fabrication
- Successful planning and implementation of an on-site micro-grid in a pharmaceutical company which resulted in 85% on-site renewable energy generation

Capabilities and facilities

- Extensive energy metering and monitoring equipment
- Proprietary energy consumption models for various industrial processes
- In-house energy flow analysis and optimisation software for industry

Our partners

- ALCOA Australia
- Baxter Australia
- Preformed Line Products Australia
- FIP Breaks Pty Ltd
- Suez Australia
- IFU Hamburg, Germany

More Information

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