Energy Efficiency Improvements

Energy Efficiency Expo and Seminar - Adelaide Convention Centre

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Agenda

- REDARC Overview
- Milestones
- Key Projects
- Key Results
- Future Improvements
- Key Drivers
Overview

South Australian based Advanced Electronics Manufacturer

180 Employees

4500m² Manufacturing space

675MWh annual energy usage

$227k annual energy spend
Milestones

Environmental Committee
Established 2010

Three audits since 2012
• 33 energy efficiency improvement opportunities
• 3 on-site energy generation & storage opportunities

17 improvement opportunities implemented
Key Projects

- Energy champion assigned
- Energy monitoring system
- Nitrogen generator isolation
- Air compressor integration
- Installed energy efficient LEDs
- New expansion designed for energy efficiency
- 100kw solar array installed
Key Results

415 MWh energy saved since Feb 2015
- $38K saved
- 204 Tonnes CO\textsubscript{2} avoided

70 MWh Solar energy generated since Dec 2017
- $12.5K saved
- 34 Tonnes CO\textsubscript{2} avoided
Future Improvements

120 kWh battery system
Advanced control systems for High Energy Usage Equipment
• PLC - production equipment
• VFD - compressed air system
Additional LED to replace existing CFL
Key Drivers

Environmentally Aware is a REDARC Core Value
Management Support
Environmental Policy
Environmental Committee Established
Energy Champion Assigned