ENERGY EFFICIENT BUSINESS TEAM

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Senior Team Leader
Energy Efficient Business
Office of Environment and Heritage
Energy Saver Program

- Energy audits and assessments (18,000 incl. 475 large sites)
- Provide businesses with EE information, resources and tools
- Develop the EE financing market
- Energy Efficiency Training (15,000 ppl)
Program evolution

2009 – program start

Energy auditing panels
Subsidy levels
Technical support
Training across disciplines
Market transforming resources

2013 – Energy Efficiency Action Plan
A new policy direction

- A market transformation approach
- Market based delivery
- Doing what only government can do to address market failures
- Cost effectiveness
- Regional delivery
- Ongoing evaluation and improvement
New Program Delivery Model

From one to one service provision  
To one to many service provision
Market failures and barriers

- Information and expertise
- Transactions costs – hassle factor
- Capital cost and payback/investment period
- Organisation structure & decision making
- Split incentives
Energy Efficient Business Actions

- Targeted investigations in priority sectors, including heritage buildings
- Industry sector and technology best practice energy efficiency guides
- Energy efficiency training workshops
- Enhance the Energy Savings Scheme Rule
- Energy Savings Scheme tools
- Environmental Upgrade Agreements and other financial contracts
Knowing Our Market

370,000 NSW businesses consume 60TWh annually

Internal OEH analysis, 2013
Total market for capital expenditure $3 Billion

Estimated Sector Opportunities - Capital Cost ($'m)

- Manufacturing
- Retail Trade
- Accommodation and Food Services
- Administrative and Support Services
- Wholesale Trade
- Professional, Scientific and Technical Services
- Health Care and Social Assistance
- Education and Training
- Mining
- Rental, Hiring and Real Estate Services
- Transport, Postal and Warehousing
- Financial and Insurance Services
- Electricity, Gas, Water and Waste Services
- Other Services
- Information Media and Telecommunications
- Arts and Recreation Services
- Agriculture, Forestry and Fishing
- Public Administration and Safety
- Construction

## Priority Sectors and Technologies

<table>
<thead>
<tr>
<th>Sector</th>
<th>Technology</th>
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<tbody>
<tr>
<td>Data Centres</td>
<td>Air compressors</td>
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<tr>
<td>Sawmills and wood product manufacturing</td>
<td>Voltage power optimisation</td>
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<tr>
<td>Polymer product manufacturing</td>
<td>Commercial refrigeration</td>
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<tr>
<td>Warehousing and cold storage</td>
<td>HVAC</td>
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<tr>
<td>Heritage buildings</td>
<td>Sub metering</td>
</tr>
<tr>
<td>Industrial or commercial premises for Environmental Upgrade Agreements</td>
<td>Cogeneration, Gas</td>
</tr>
</tbody>
</table>
Best practice energy efficiency resources

- Cogeneration
- Compressed Air
- Sub-metering
Commercial Refrigeration

Energy audit of supermarket commercial refrigeration

Retrofit doors to display cases, reduce 3 compressors to one; upgrade display case lights to LED

Finance

M&V

Public information for suppliers

Generation of ESCs
Thank you
Sustainability Advantage Program
Program Purpose

Help medium to large companies identify and respond to sustainability risk and opportunities.

Achieved through:

• Individual support
• Networking opportunities
• Facilitated workshops
Program Overview

- Currently in its 7th year
- 536 members - 50% regional NSW
- $84 million in annual member resource savings (energy, water, waste)
- $1.8 million annual budget
- 14 full time employees
Program’s Sustainability Roadmap

Most companies
Reactive
Regulatory compliance

Eco-Efficiency
Resource management

Leaders
Strategic
Competitive Advantage

Not for all
Visionary
Leadership - Set the agenda

Objectives
Program pathway

- Agreement
- Sustainability diagnostic
- Develop an action plan
- Undertake modules
- Network with other companies
- Review progress & report results
Expert Collaboration and Guidance

- Business Planning
- Staff engagement
- External stakeholder engagement
- Resource efficiency
- Supply chain management
- Environmental risk and responsibility
- Carbon management
Networking

- Aged Care
- Manufacturing
- Tertiary Education
- Government
- Property and Infrastructure
- Industrial Ecology
- Printing
- Clubs
- Tourism & Hospitality
- Food manufacturing
Direct Comparison

Recognition Scheme

Industry Benchmarking