Topics

1. Ai Group research
2. Ai Group activity
3. Learning experience
4. Current feeling
5. Next steps
Ai Group research

2010 survey: little achieved in efficiency

2012 survey: significant turnaround

2013 surveys: barriers remain
2010 – efficiency improvements

Estimated efficiency improvements (2010, manufacturing)

- Past 5 years
- Next 2 years
2012 – efficiency improvements

Efficiency improvements
(2012, all sectors)

- None or negligible
- 1-5%
- 6-10%
- 11-20%
- >20%
- Unknown

Action taken in the past 3 years
Action planned in the next 3 years
2013 – intensity improvements

Businesses reducing carbon intensity 2012-13

- **Percentage of respondents**
  - **Manufacturing**: 36%
  - **Services**: 30%
  - **Construction**: 24%
  - **Total**: 30%

[Bar chart showing the percentage of respondents in different industries reducing carbon intensity from 2012 to 2013]
Ai Group activity

Ongoing in-house energy services team

Information Grants: Energy Efficiency Assist

Clean Technology Investment Program involvement

Resource Efficiency Assist (VIC and SA) - current
# Energy Efficiency Assist SME audit

<table>
<thead>
<tr>
<th>Opportunities identified</th>
<th>TOTAL energy savings (GJ/yr)</th>
<th>GHG savings (t CO₂-e/yr)</th>
<th>Energy cost savings ($/yr)</th>
<th>Capital cost ($)</th>
<th>Payback (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Upgrade 400W high bay lamps to 150W LED equivalents</td>
<td>20,962</td>
<td>6,760</td>
<td>1,140,900</td>
<td>3,577,015</td>
<td>3.1</td>
</tr>
<tr>
<td>Upgrade 36W T8 fluorescent lamps to 22W T8 LED lamps</td>
<td>4,958</td>
<td>1,516</td>
<td>328,333</td>
<td>1,290,789</td>
<td>3.9</td>
</tr>
<tr>
<td>Compressed air leakage reduction</td>
<td>1,179</td>
<td>341</td>
<td>55,362</td>
<td>51,560</td>
<td>0.9</td>
</tr>
<tr>
<td>Installation of VSD on equipment</td>
<td>1,403</td>
<td>482</td>
<td>65,398</td>
<td>337,890</td>
<td>5.2</td>
</tr>
<tr>
<td>Installation of timer on equipment</td>
<td>515</td>
<td>157</td>
<td>14,979</td>
<td>21,785</td>
<td>1.5</td>
</tr>
<tr>
<td>Other (e.g. installation of day light sensor, insulation of pipes, hibernation setting for the computers, upgrade 18W T8 fluorescent lamps to 11W T8 LED lamps and adjust HVAC settings)</td>
<td>11,355</td>
<td>2,870</td>
<td>559,625</td>
<td>1,886,820</td>
<td>3.4</td>
</tr>
<tr>
<td><strong>Totals</strong></td>
<td><strong>40,373</strong></td>
<td><strong>12,124</strong></td>
<td><strong>$2,164,596</strong></td>
<td><strong>$7,165,859</strong></td>
<td><strong>3.3</strong></td>
</tr>
</tbody>
</table>
Australian Industry Group’s Energy Efficiency Assist Program

Episode 3: Energy Efficiency Opportunities with Process Cooling & Refrigeration

This module will take approximately 15 minutes to complete.

Audio is used in the module so make sure you have speakers turned on or headphones plugged in.

CONTINUE
Learning from experience

• Information:
  • Still in demand
  • Needs to be well pitched
  • On site assistance makes a difference
• Opportunity is there…
• … but transaction costs need to be low…
• … and SMEs need individual support to identify and implement
• Policy / budget vagaries are damaging
Current attitudes

Awareness of energy cost imperatives

Wider economic conditions are a more constant worry

Caution about policy flux

Pause in activity as incentives wind down
Next steps

Retail energy prices at sustained highs or rising further

Future generation options are expensive

Manufacturing in transition

Efficiency remains imperative to competitiveness, abatement