



AUSTRALIAN INDUSTRY GROUP

Energy efficiency policy & SMEs

EMAK Workshop

February 27 2014

Topics

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

Ai Group research

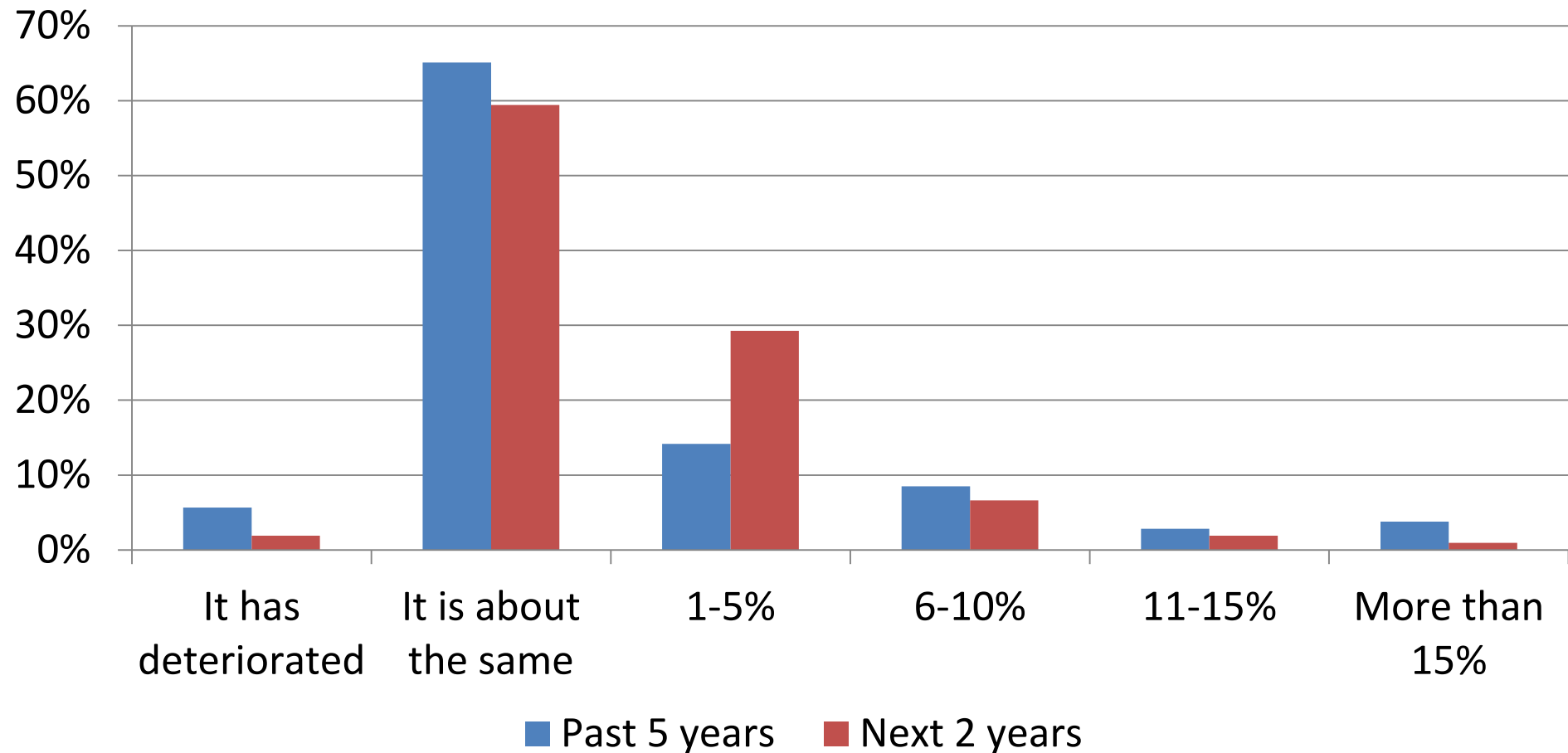
2010 survey: little achieved in efficiency

2012 survey: significant turnaround

2013 surveys: barriers remain

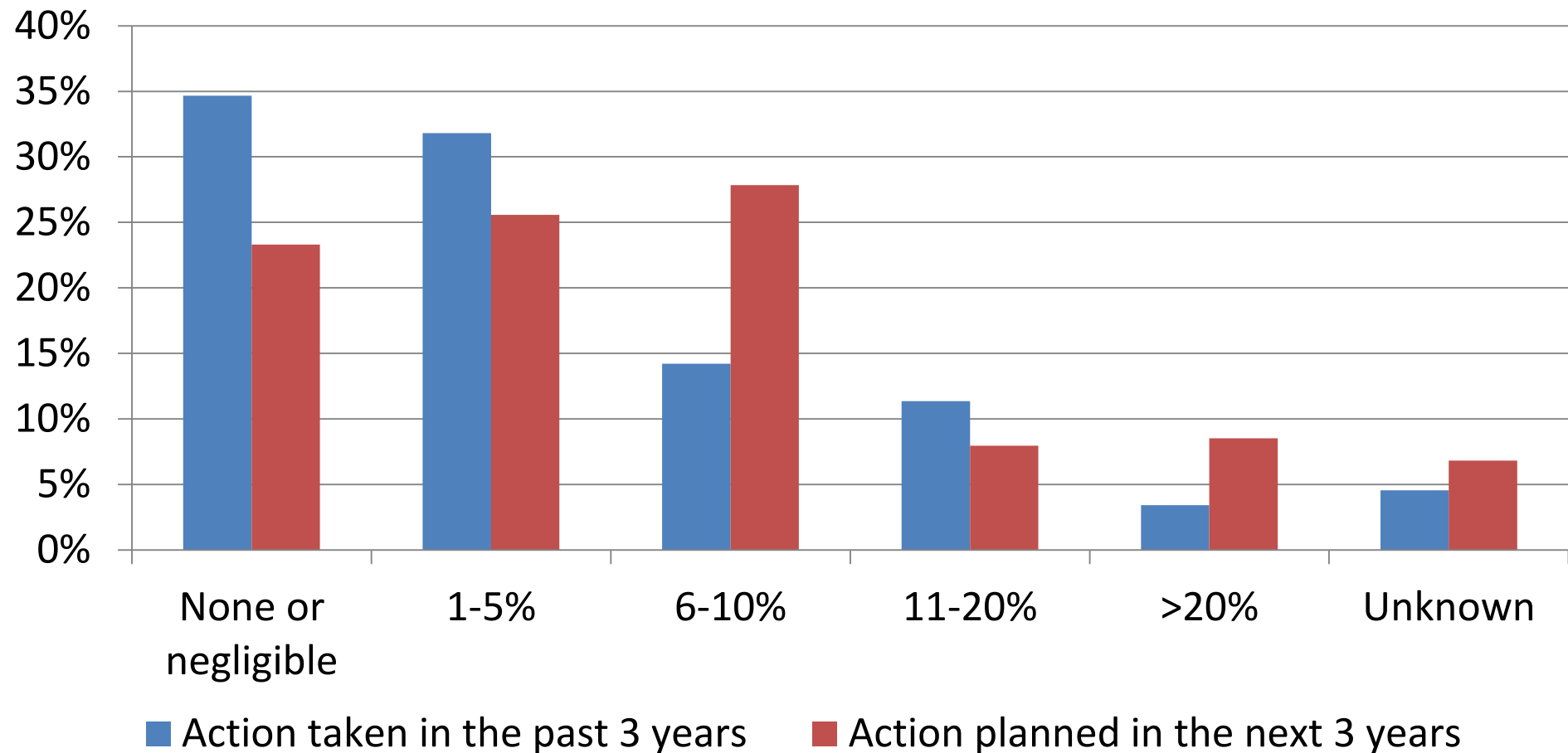
2010 – efficiency improvements

Estimated efficiency improvements (2010, manufacturing)



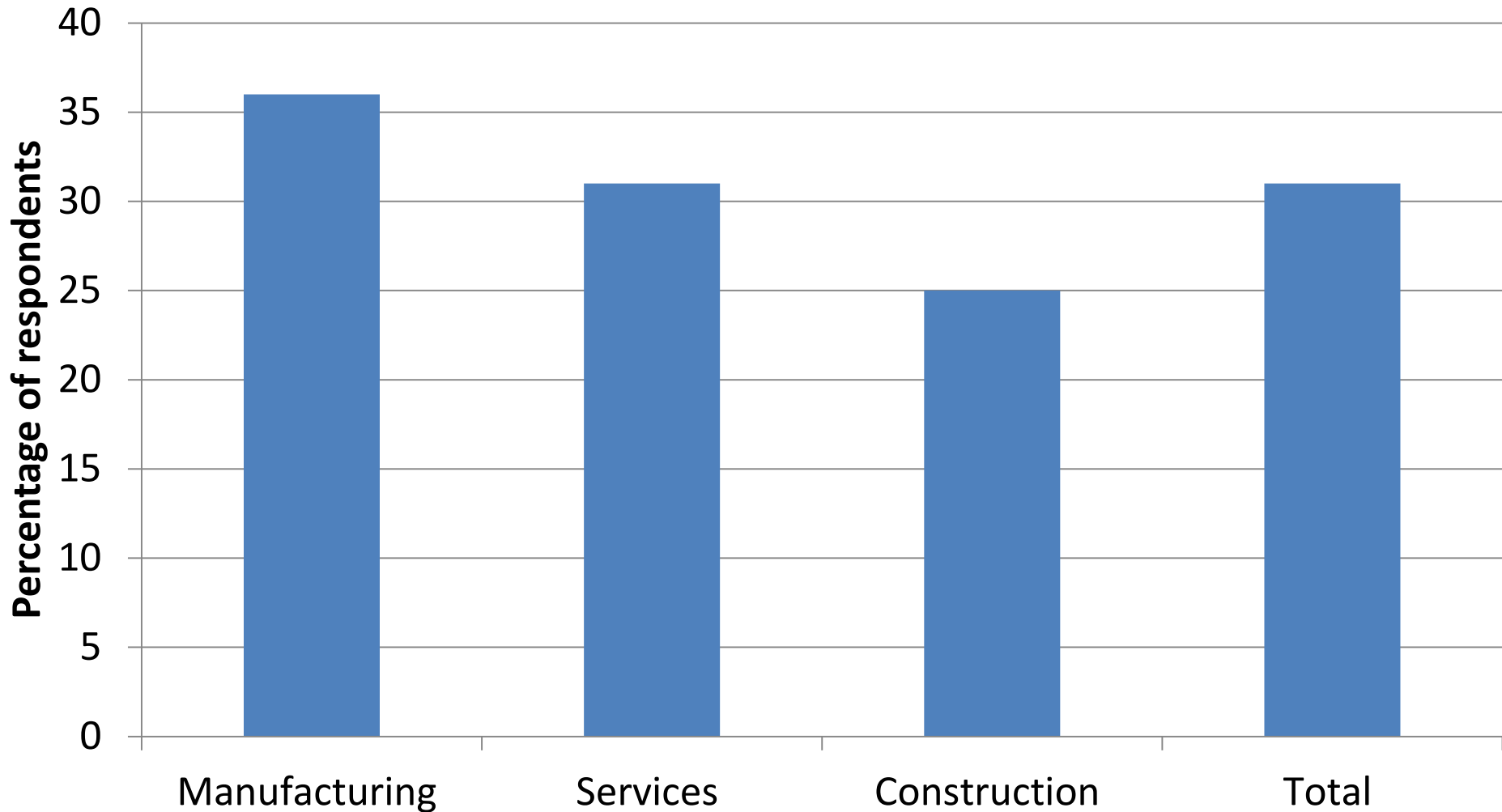
2012 – efficiency improvements

Efficiency improvements (2012, all sectors)



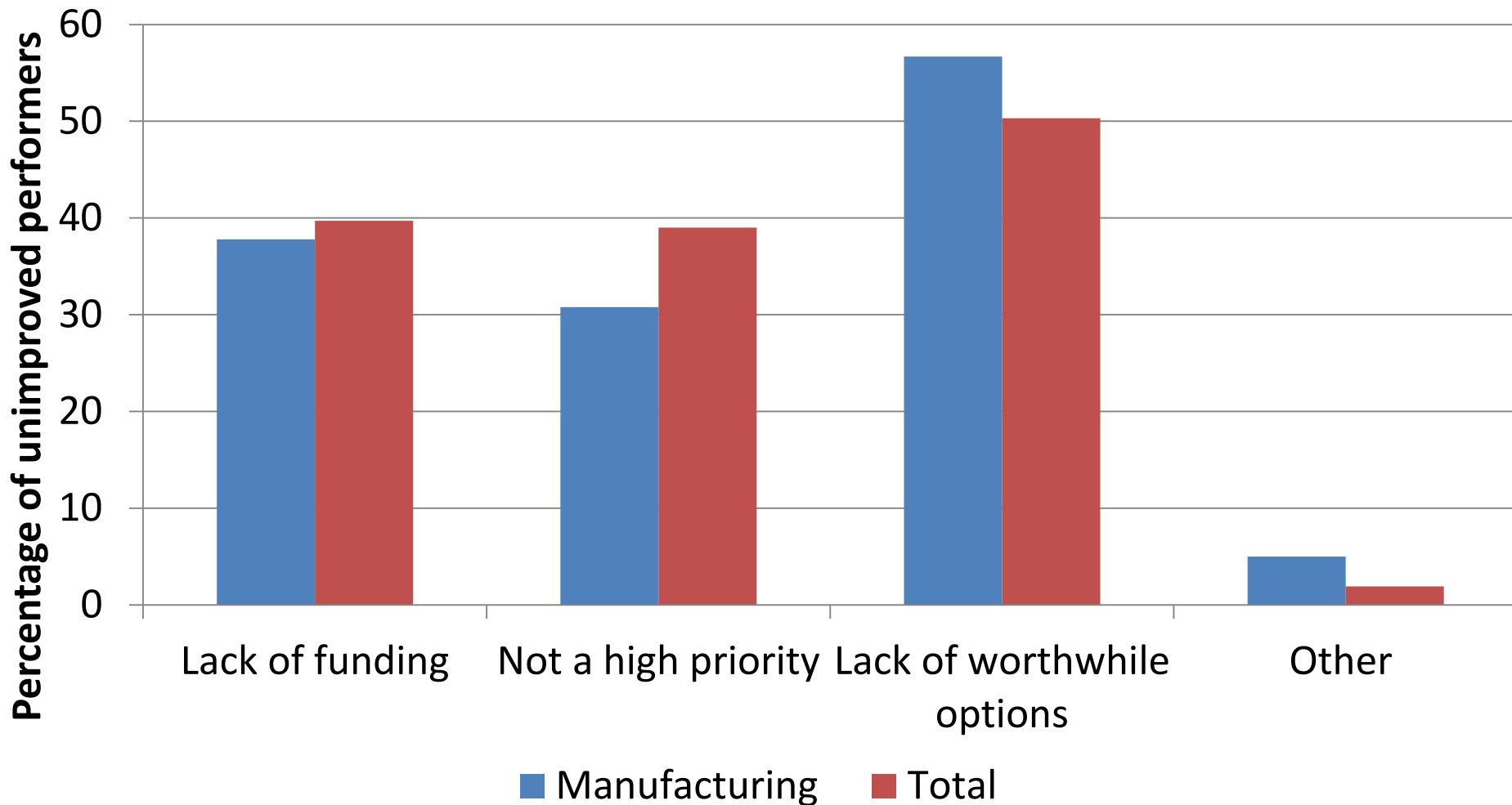
2013 – intensity improvements

Businesses reducing carbon intensity 2012-13

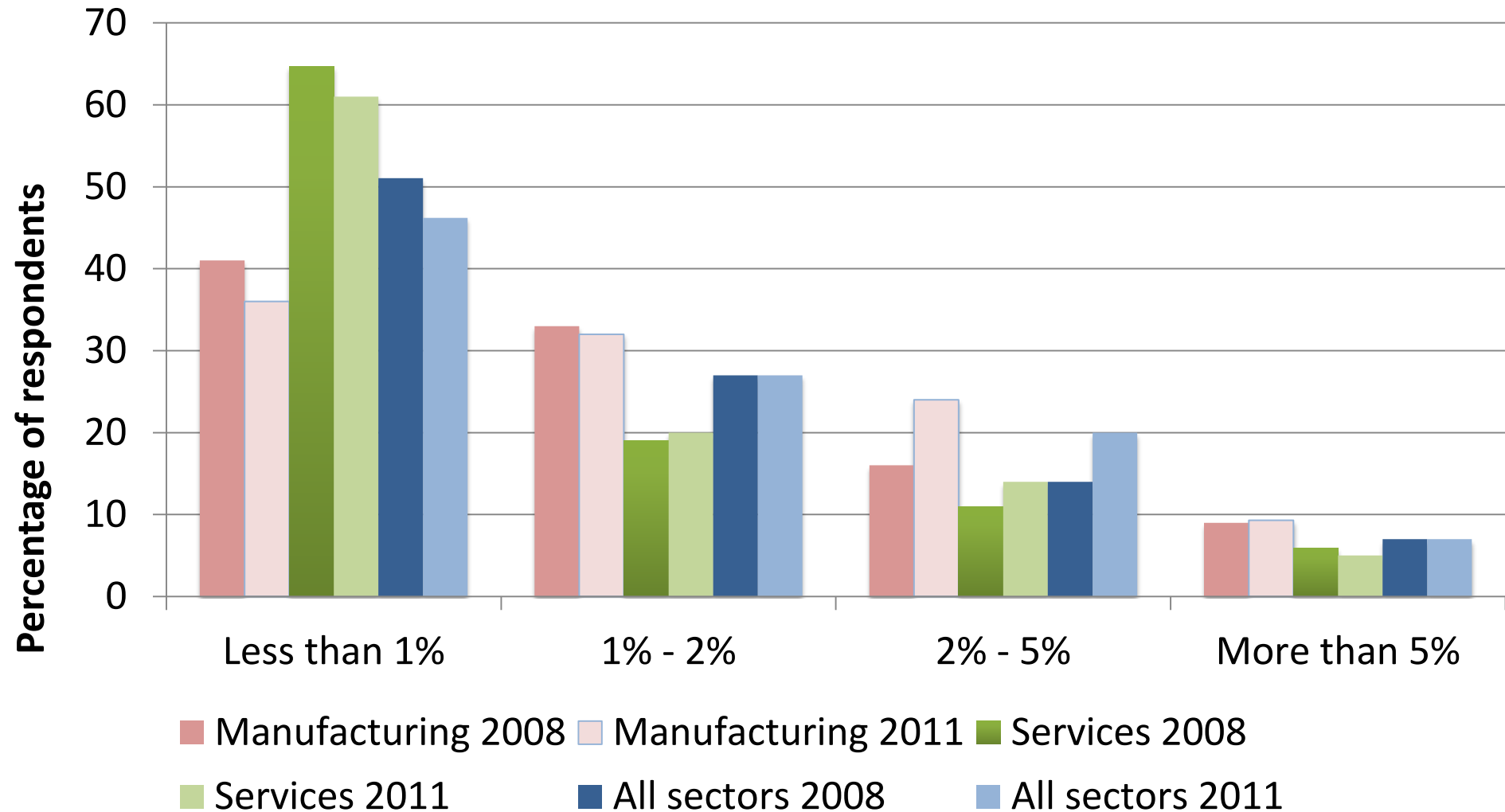


2013 – barriers to improvement

Barriers to carbon intensity improvement (2012-13)



Energy spend as % turnover



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

Opportunities identified	TOTAL energy savings	GHG savings	Energy cost savings	Capital cost	Payback (years)
	(GJ/yr)	(t CO ₂ -e/yr)	(\$/yr)	(\$)	
Upgrade 400W high bay lamps to 150W LED equivalents	20,962	6,760	1,140,900	3,577,015	3.1
Upgrade 36W T8 fluorescent lamps to 22W T8 LED lamps	4,958	1,516	328,333	1,290,789	3.9
Compressed air leakage reduction	1,179	341	55,362	51,560	0.9
Installation of VSD on equipment	1,403	482	65,398	337,890	5.2
Installation of timer on equipment	515	157	14,979	21,785	1.5
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)	11,355	2,870	559,625	1,886,820	3.4
Totals	40,373	12,124	\$2,164,596	\$7,165,859	3.3

energyefficiencyassist.com.au

Australian Industry Group's Energy Efficiency Assist Program



Ai AUSTRALIAN INDUSTRY GROUP

ENERGY EFFICIENCY ASSIST

Empowering SMEs in the manufacturing sector to make informed decisions about energy efficiency

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 >



Australian Government
Department of Climate Change
and Energy Efficiency



Office of
Environment
& Heritage



Government of South Australia
Zero Waste SA

Sustainability
victoria



This activity received funding from the Department of Climate Change and Energy Efficiency as part of the Energy Efficiency Information Grants Program.
Disclaimer: The views expressed herein are not necessarily the views of the Commonwealth of Australia, and the Commonwealth does not accept responsibility for any information or advice contained herein.

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