

Australian Government

Department of the Environment and Heritage Australian Greenhouse Office



Charles Edlington Australian Greenhouse Office

Mark Ellis Mark Ellis & Associates

Energy Star – International Partners Meeting March 2005



Almost 20 million people (7m households)

Approx same size as mainland US

Australian Context

Approx 1.5% of world emissions



Overview

- Energy Star's integral role in product sectors
- Ongoing communications work
- www.energyallstars.gov.au
- Australian technical contributions

Energy Star in Australia



- Managed and delivered by the AGO on behalf of all jurisdictions
- Products currently include:
 - Office equipment (1999)
 - Home entertainment (2001)
- Partners include nearly all key industry players new round of PA's out shortly
- Considering product coverage expansion...

National Standby Strategy – 2002 - 2012





- Released November 2002
- One-Watt for most products by 2012
- Identifies and categorises problem products
- A two-stage process
 - Stage 1 voluntary measures
 - Energy Star key role
 - Stage 2 mandatory options
 - MEPS & mandatory labelling

Specific Product Profiles – 28 published





Contents include:

- Product description
- Current overseas policies
- Relevant modes
- Known standby data for new/installed products
- Emissions
- Government target and proposals

Energy Star Specs for IT

Energy Star Communications Strategy



- Aimed to raise awareness & understanding of logo amongst retailers (primary target) and consumers (secondary target)
- Information Kits distributed to head offices of all major retailers
- Main consumer promotion run through leading retailer with broadest rep. of products
- Ads in major daily newspapers

Energy Star Consumer Promotion



Outcomes :

- Level of awareness in retail sector (particularly for Home Electronics) is low but growing
- Logo issues:
 - Need for logo on product as well as packaging
 - Confusion with other labels ie Energy Rating
- Media attention was significant





- Energy Ministers called for database of high performing products – similar to FEMP
- AGO working with relevant govt procurement bodies to implement preferencing policy
- Audience
 - 1. Govt
 - 2. Business
 - 3. Public
- May include non energy aspects in future ie water





- New initiative to promote the highest performing products
- Database and web-based procurement tool
- Shows information requested by purchasing officers
- Voluntary registration
- Verified by checktesting program
- Likely to me the most significant marketing incentive for Energy Star products in Australia



Energy Allstars lists only the top energy performing appliances

You can use this site to compare products, work out how much running them will cost, and how much energy and water they will use. Only the most energy efficient models are listed. More products will be added as it is developed.

This website is a joint initiative of the Australian Government, and State and Territory Government Agencies

🚰 http://energyallstars.gov.au - clothes washers - Microsoft Internet Explorer																											
File Edit View Favorites Tools Help																											
**** *	tenergyallstars																										
Home	P	Produ	ucts B	uyers	Sup	plie	rs (Cons	ume	ers																	
Cloth	ies '	Was	shers													all	Ener	gy Al	lstar	s clo	thes v	washer	s are Top E	inergy	Saver A	ward w	, ^
				_															H	ome >	<u>Produ</u>	<u>icts</u> > <u>Cl</u> i	othes Washer	s Searc	<u>h Filter</u> >	Detailed	
Show basic information Electricity cost: 0.15 SMVh Warm washes per week: 7 Exclude Purchase Price																											
Help on headings & content 0.15 s/k/wh Cold washes per week: 0 Exclude Furchase Fride																											
Do another search Water cost: 1 \$MI Show costs for: 10 years Calculator help Re-Calculate																											
													-														
Your sea	Your search returned 5 clothes washers using these filters: Description: All, Load: All, Brand: All																										
					tion	y	ions		2		ed warranty	n time	eeds	ater	nection	hsi	nsing	/ warm wash	ings warm	/ cold wash	load	ings / load	reset	nits	& water cost g purchase	savings	
		and	ountry	odel	escrip	apacit	mens	olours	arrant		dende	ogran	ain sp	eats w	ot con	old wa	ad se	rergy	'g sav	rergy	ater /	'g sav	RР	o. of u	tergy cludin	rerage	
show		B	ŭ	W	ă	ී ka	Crn	ŭ	≧ vrs	•	ଘି vrs 9	کت 18 min	් rom	Ĥ	н	ŭ	Γo	Ш KVVP	₹ KWł	ш kWh	≧ litres	≷ litres	€ \$	Ň	ய்.≦ \$/10∨rs	₹ \$/10vrs	1
selected		▼ ▲	▼▲	•	▼▲	▼ ▲			▼ ▲					•	▼ ▲	•	• •	•		▼ ▲	▼▲		▼ ▲		,	,	
	1	MIELE	Germany	VV 310	Front loading	5.5	H:850 VV:600 \ D:600	White	2	L&P		121	400,600,900,1300	~	~	~	~	0.39	1.32	N/A	55	80.6	1999	1	2421	1009	r
	ف	MIELE	GERMANY	VV1986	Front Ioading	6.5	H:850 W:600 \ D:715	White	2	L&P		96	500-1200	~	~	~	~	0.45	5 1.64	N/A	63.42	104.48	2999	1	3494	1260	r
		<u>LG</u>	Korea	WD- 1025FB	Front Ioading	7.5	H:850 W:600 \ D:600	White	2	Ρ		153	1000rpm	~	~	~	~	0.55	5 1.75	i N/A	77	98.3	1600	1	2191	1304	r
	L.	MIELE	GERMANY	VV487	Front Ioading	5.5	H:850 W:600 \ D:600	White	2	L&P		118	400,600,900,1200,1500,1800		~	~	~	0.44	1.28	N/A	56.2	79.4	3399	1	3856	974	r
		<u>LG</u>	Korea	WD- 1470FD	Front loading	7	H:850 W:600 \ D:600	White	2	Ρ		160	1400rpm	~	~	~	~	0.57	1.52	N/A	78	89.9	2124	1	2736	1143	r
Your sear	ch ret	turned	15 clothes v	washers	s using th	nese	filters:	Desc	riptio	n: Al	l, Loa	d: Al	l, Brand: All]-
register hare login country of foreigned line (house)																											
register	nere	5	Jann Cop	yngnt and	raisciaim	erip	nvacy sta	acemen	I TAC	cessi	Dinty	otaten	neur 1											Scomn	ionwearth	or Austral	ы





- Current products listed: regulated in Australia
- By mid-2005: products will include those covered by Energy Star in Australia
- Specifications will be Energy Star for:
 - Personal Computers
 - Computer monitors
 - Imaging technology
 - External power supplies

Lighting	Linear fluorescent lamps Compact fluorescent lamps Low voltage lighting transformers	Lighting ballasts Sensor lights				
Office Equipment	Personal computers Computer monitors Computer speakers Printers Photocopiers	Faxes Multifunction devices Scanners Modems External power suppliers				
Household appliances	Air conditioners Electric water heaters Gas water heaters Gas space heaters Electric space heaters Refrigerators and freezers Dishwashers Clothes washers Clothes dryers	Microwaves Electric rangehoods Coffee Machines Breadmakers Smoke alarms Alarm systems Rollerdoors				
Home entertainment	Video players/recorders DVDs	Televisions Set-top boxes				
Commercial equipment	Ice Makers Boiling and chilled water dispensers Refrigerated display cabinets	Vending Machines Motors Distribution transformers				

Other Developments



- Australian policy:
 - to promote international harmonisation
 - test methods and performance levels (where feasible)
 - to promote international trade (WTO, APEC)
- External Power Supplies
 - Part of international co-operation, round robin testing, etc
 - Australia to mandate from April 2006 = Energy Star tier 1 spec
 - Marking requirement from April 2007
 - Aus will propose test method to IEC

Other Developments



CFLs

- Australia proposing MEPS and endorsement label
- Promoting international harmonisation at RL6 Shanghai, May 2005
- Single test method for all criteria
- Range of performance standards for MEPS and labels
- Dialogue with Energy Star, China, EU

Personal Computers & Monitors

- Australia to mandate MEPS from 2007
- Based on Energy Star test method
- Computers: High Efficiency level = Energy Star spec
- Monitors: MEPS level = Energy Star spec

Other Developments



- Imaging Technology
 - High Efficiency products = Energy Star spec
 - Based on Energy Star test method
- Water Dispensers
 - Australia to mandate MEPS from 2007
 - Based on Energy Star test method
 - Same spec as Energy Star

Air Sourced Heat Pumps



Energy Star Spec for ASHP

- Need to explicitly include "mini-split" (US term) or non-ducted split airconditioners (international term)
- US EPA asked AGO to develop spec, as mini-split represent 60%+ sales in 2004

Current Draft prepared by EnergyConsult and reviewed by Lloyd Harrington

• Draft to EPA in March 2005

Includes proposed definition, levels, test standard and analysis

• Feedback and review by EPA required

Proposed Mini-split Airconditioner Energy Star Spec



- Product Definition
 - Same as ISO 5151
- Test Method
 - ASHP Energy Star method for US
 - International requirements ISO 5151 or equivalent
- Energy Star Levels Proposed for 2006
 - based on US Eff Standards, International MEPS and available product

	Cooling only	Heat pumps only					
SEER (USA)	EER (Inter	national)	HPSF (USA)	COP (International)			
14	13.1 btuh/w	3.84 W/W	8	3.0 W/W			

• Passive standby \leq 2W

International Comparison of MEPS Levels for Cooling ACs, Type = Split

International Comparison of MEPS Levels for Cooling ACs, Type = Split





Australian Government

Department of the Environment and Heritage Australian Greenhouse Office



www.energystar.gov.au

<u>www.energyrating.gov.au</u> <u>www.energyallstars.gov.au</u> <u>www.greenhouse.gov.au</u>