

Australian Phase-out of Inefficient Incandescent Lamps - Update

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Overview

- Based on International work with the intent to migrate to IEC Standards when available
- Australian and New Zealand Interim Standards for incandescent lamps and final standards for CFLs have been published – <http://www.saiglobal.com>
 - Incandescent: AS/NZS 4934.2(Int)2008
 - CFL: AS/NZS 4847.2:2010



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Implementation

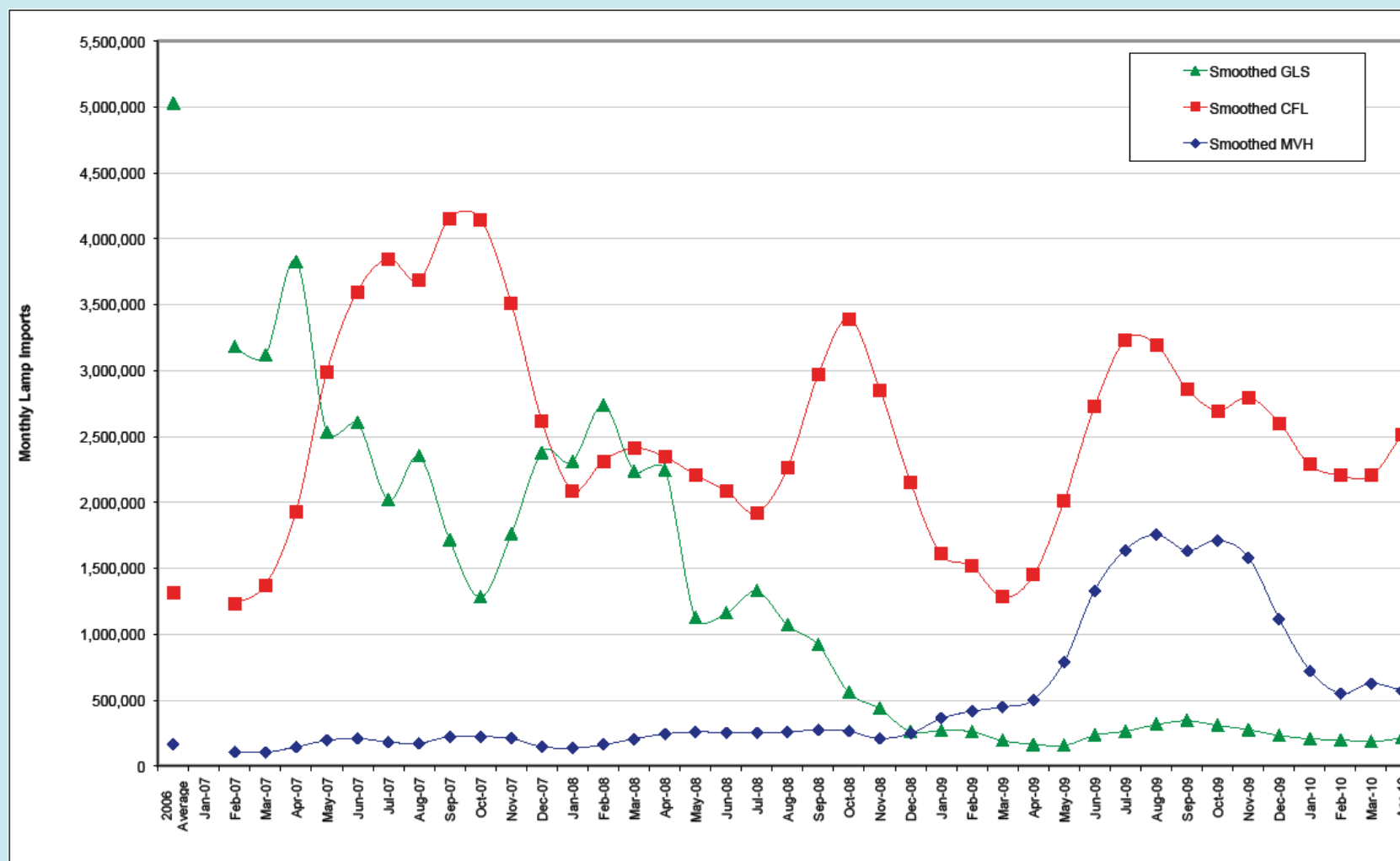
- February 2009 – Prohibition on import of incandescent GLS lamps.
- November 2009 - Standards were incorporated into state regulations which control what products can be sold in Australia.
- Lamp import data shows that, from 2007 to 2009, some 65 million GLS lamp sales have been substituted with lower wattage halogen (14 million) and CFL (51 million).



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Results – Lighting Import data



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Incandescent Performance Standard

- The standard specifies:
 - Test methodologies
 - A curve describing Initial lamp efficacy (15 lumens/watt @ 900 lumens)
 - lifetime ($\geq 2000\text{h}$)
 - lumen maintenance (80%, measured at 75% of rated life)



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CFL Performance Standard

- The Standard for CFLs is consumer friendly and includes:
 - Start time
 - Lifetime
 - Lumen maintenance
 - Power factor
 - Colour (xy, CCT and CRI)
 - Mercury level
 - EMC
- Automatic qualification with:
 - ELI certification
 - UK Energy Saving Trust certification
 - plus a few parameters not included in those performance levels needing measurement.



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Issues

■ Packaging requirements:

- Light output in lumens
- Wattage in watts
- Lamp Lifetime
- Mercury (From May 2011)
- Standards flag that more detailed packaging may be required in future including efficacy.

■ Equivalency

- Claims of equivalence with GLS lamps must comply with table in standard from May 2011 (EU table)



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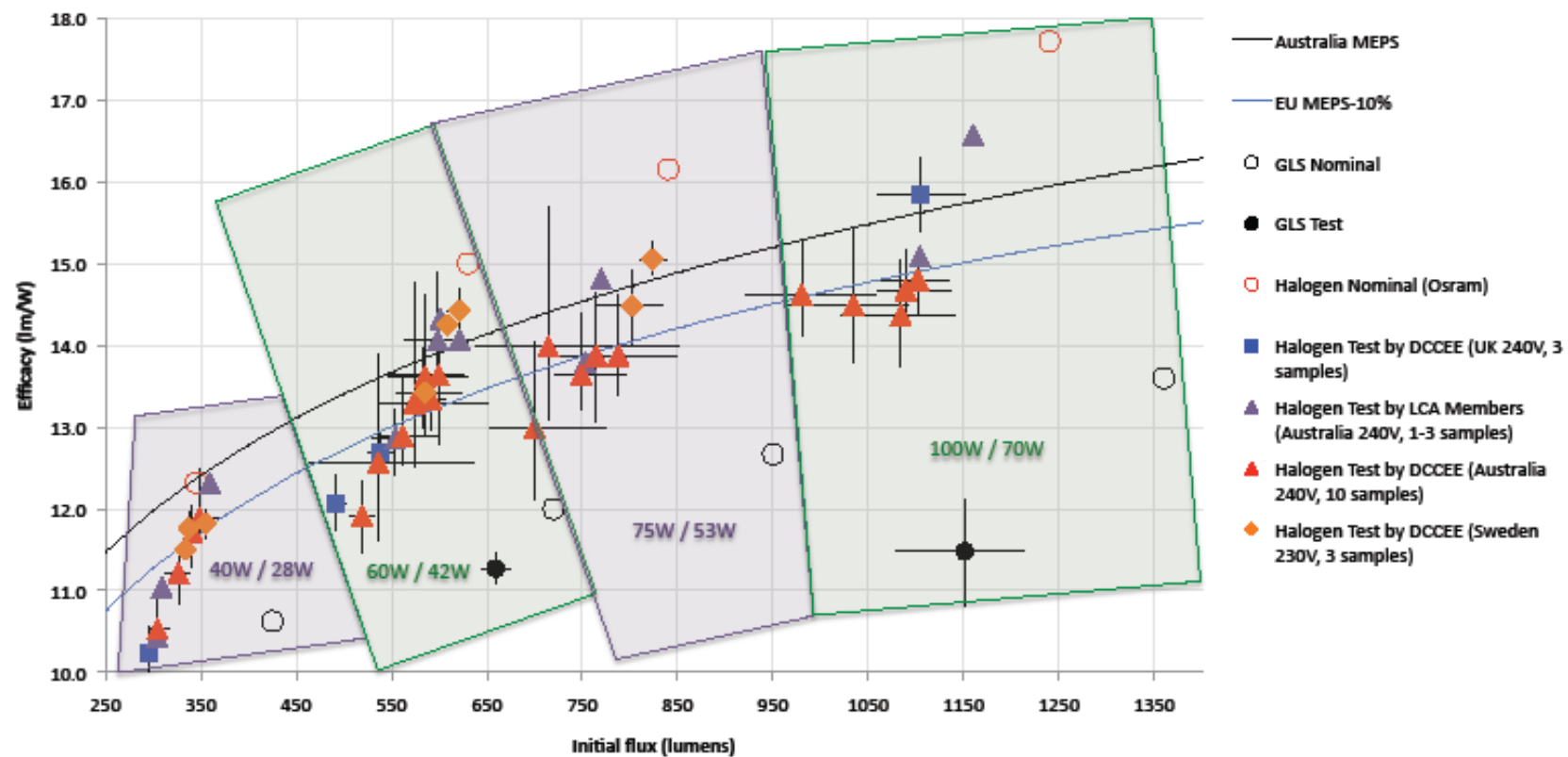
Issues

- Still considering need for UV emission limits for CFLs – looking at (EC) 244/2009
- Finalising alternative light sphere test method for reflector lamps
- Assessing ability of mains voltage halogen lamps to meet the standard.
 - Industry concerns that MVH will not meet efficacy curve.
 - Testing of Australian and overseas products indicates problems with some wattages.



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More Information

- Information on the Program is on the web at:

www.changetheglobe.energyrating.gov.au



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