Towards a sustainable water environment and stable water supply



Stuart Wilson Deputy Executive Director JWWA International water forum Saitama October 2015



- I will discuss four areas:
 - 1. Australian climate change
 - 2. Planning the water supply
 - 3. The role of water efficiency
 - 4. Technology



Temperature increase



Rainfall decrease (mostly)



Record floods



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Water supply planning



NSW water supply equation

Dams+ Recycling + Desalination + Water Efficiency = Water (a) life

Perth Metropolitan Water Supply



Diverse supply

Area	Dams	Groundwater	Desalination	Recycled water
Sydney	93%	0	0	7%
Melbourne	96%	0	0	4%
Southeast QLD	89%	3.5%	0.5%	7%
Perth	17%	42.5%	38%	2.5%
Adelaide	55%	0	41.5%*	3.5%

Source: National Performance Report 2013/14

*During the period Adelaide Desalination Plant was operating as part of its proving period

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A major shift in water use (Sydney)



Impact of water conservation (Melbourne)

Savings through water conservation in Melbourne 2002-2011



Water Efficiency Labelling and Standards scheme (WELS)

Choosing more efficient products helps Australia save water









WATER SERVICES ASSOCIATION OF AUSTRALIA

working with utilities Smart WaterMark



Smart Approved WaterMark

smartwatermark.info

- 3-year investment
- 17 Utilities across all states
- **Expansion into non-residential**





Australia's label identifying and certifying products and services that

industry and government with a epresentatives from Federal & State

mments, water utilities and e founding industry Associations Water Association ralia, Nursery & Garde dustry Australia & Water Services ssociation Australia.

Smart Approved WaterMark Certification

fficient Water Use

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WSAA



witter



Water efficiency programs

- Leak detection
- Every Drop Counts Business Program (focus on large users)
- **Rebates** (washing machines, rainwater tanks transformed the washing machine market nationally)
- Exchange programs (showerheads and toilets)
- Water Fix (low cost service to install efficient fittings in homes)
- Education campaigns (TV ads, schools, raising awareness, changing behaviour)
- WELS (Water Efficiency Labelling and Standards scheme)
- SAWM (Smart Approved WaterMark)
- **BASIX** (Building Sustainability Index)





Smart Approved WaterMark



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Technology is the enabler



How to find us





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