This presentation premiered at WaterSmart Innovations

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ACHIEVING SUSTAINABLE WATER CONSUMPTION TARGETS IN MELBOURNE, AUSTRALIA

08 October 2010



OPENING SUMMARY ACHIEVING SUSTAINABLE CONSUMPTION TARGETS

- Set scene:
 - Water management structure in Melbourne
 - Who/where is South East Water?
 - Drivers: Drought/climate change/Population growth
- Government
- South East Water
- Customers

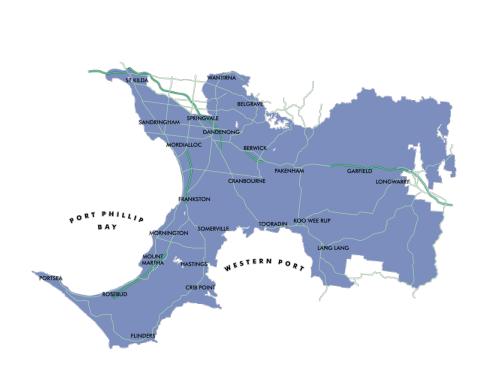


SETTING THE SCENE



WHERE IS SOUTH EAST WATER?







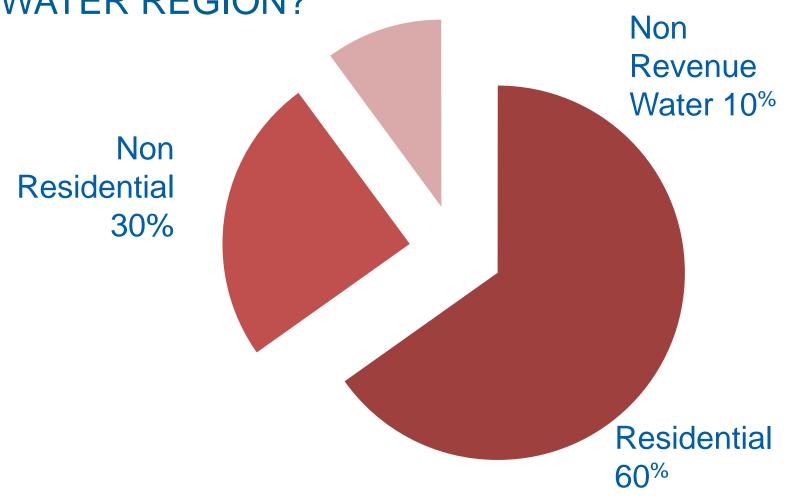
WHO IS SOUTH EAST WATER?

- Providing water, sewerage and recycled water services in the south-east region of Melbourne
- 1.4 million people served in a 3640 square kilometre area (1405 square miles)



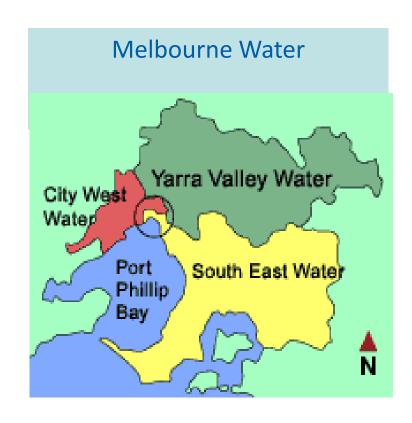


HOW WATER IS USED IN THE SOUTH EAST WATER REGION?



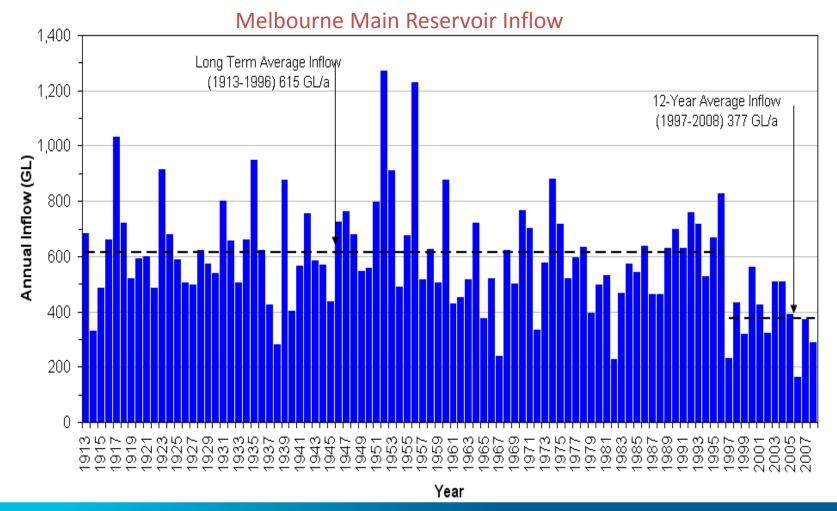
WATER MANAGEMENT STRUCTURE IN MELBOURNE?

- State Government owned
- One Wholesaler
 - Melbourne Water
- Three Retailers
 - South East Water
 - Yarra Valley Water
 - City West Water

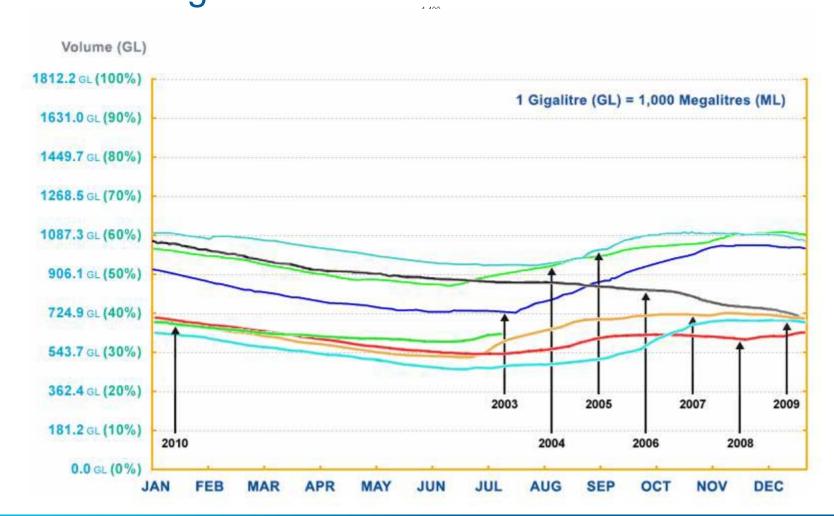




TEN YEAR DROUGHT/CLIMATE CHANGE Inflows into water storages



TEN YEAR DROUGHT/CLIMATE CHANGE Water storages









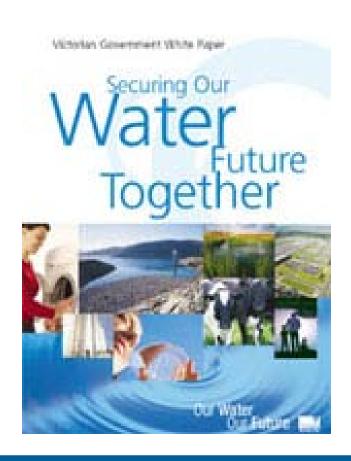
HOW IS GOVERNMENT ACHIEVING SUSTAINABLE WATER CONSUMPTION



GOVERNMENT

Achievement of sustainable consumption?

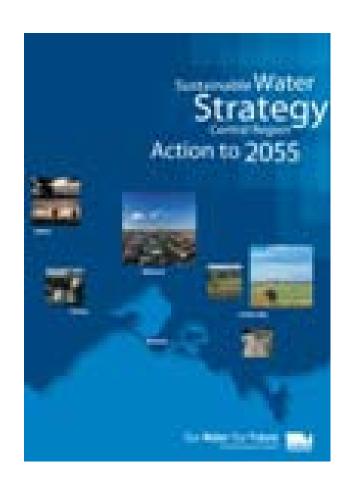
- Strategic planning:
 - Define targets and supply augmentations
- Regulations:
 - Restrictions
 - Mandated water conservation programs
- Education/Incentives
 - Mass marketing
 - Rebates
 - Voluntary targets





GOVERNMENT Strategic Planning

- Development of a 50 year
 'Central Region Sustainable
 Water Strategy'
- Defined sustainable water targets:
 - 296 litres/person/day or174 litres/person/day(residential) = 78 gal/p/dor 46 gal/p/d
- Supply augmentations



GOVERNMENT Regulations

- Water Restrictions
- Mandated programs:
 - Showerhead exchange program
 - WaterMAPs
- Support for National Water Efficiency Labelling Scheme (WELS)

STAGE 3a water restrictions are in place across Melbourne













Lawns must not be watered at any time with drinking water

RESIDENTIAL GARDENS

Watering Days

EVEN and no-numbered numbered properties can water plants on Seturday and Tuesday twithin specified times.

ODD surribored properties can water plants on Sanday and Wednesday Avithin specified timest.

Watering is NOT permitted on Monday. Thursday and Friday.

Watering Times

Manual Watering

Manual dripper systems, a hand-field hose fitted with a trigger receiv, watering dans and buckets. can be used to water plants as required on specified withring days bebiesen Earn - Ram.

Households with at legst one resident aged 70 years or over may water their plants. manually on specified welening days between Gare - Barn or Barn - 10am

Automatic Watering

Automatic dripper systems can be used to water plants as required on specified watering days between midnight - 2am.

VEHICLE WASHING

An efficient commercial car wasts that uses 70 items. of water or less per vehicle can be used. Cars may not be wested at home with drinking water.

A bucket filled from a two can be used to clean windows, mirrors and lights; and spot remove

SPORTS GROUNDS

Generally, 1 in 4 sports grounds as reminered by council can be watered. Exempt playing surfaces may be watered: furl cricket wickets, golf ties and greens (not fairways), terms courts, bowling greens. hockey atches, nurring tracks, conquet greens.

INDUSTRY*

Businesses using 10 megalitres of water or more per year must complete a water conservation. action plan mater/VVPs program.

POOLS AND SPAS

A new pool or spe of any size capacity cannot be filled with drinking water. However, a new or making awarming pool or spa may be filled with an alternative water source such as groundwaler.

An existing prof or app of less than 2,000 litrus. may be filled by means of a watering can or bucket filled directly from a tap.

An existing pool or spalof greater than 2,000 titres must not be filled except in accordance with a water conservation plan (contact your local water frusiness for more information).

An existing pool or agai must not be topped up. avoept by means of a watering can or bucket, filled directly from a tap Hoses must not be used.

Greywater, narrowater and recycled water can be Used at anytime. For guidelines on safe use, visit www.epa.vic.gov.au : Restrictions do not apply to ranwater collected in a storage task, provided it is not supplemented with drinking water supply.

Penalties and enforcement

Stand Da water restrictions must be tollowed and Write patrols are out in force agrees. Neithouries.

To export a breach, call 13WWTER (139 2837).

visit are viet site of www.purwater.vie.gov.au ar

South East Water 131 067 www.southeastwater.com.au Yarra Valley Water 131 221 www.yarmyalleywatar.com.au Our Water Our Future



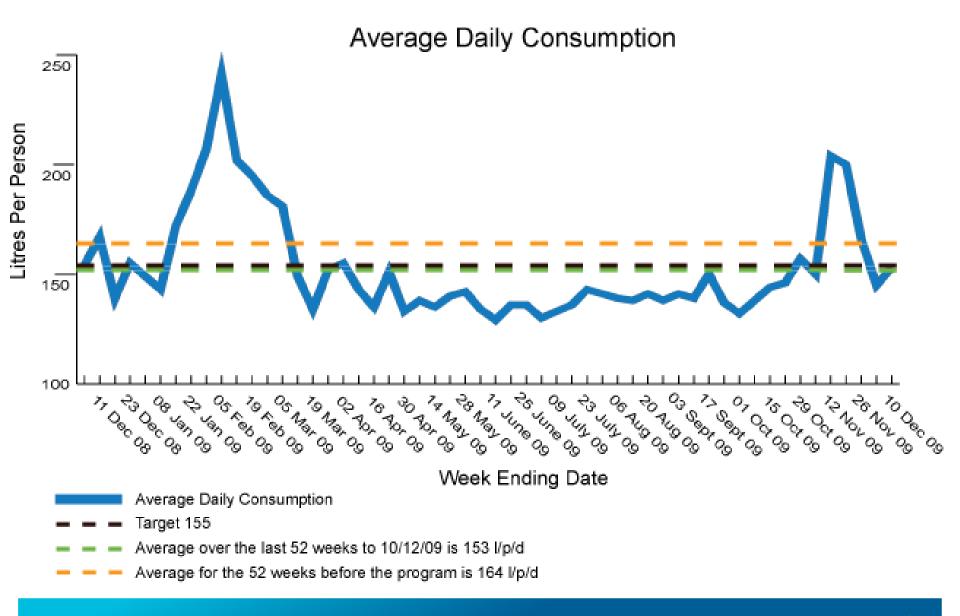


GOVERNMENT Education/Incentives

- Our Water, Our Future
 Melbourne wide campaign
- Rebates for residential customers
- Voluntary consumption target









HOW IS SOUTH EAST WATER ACHIEVING SUSTAINABLE WATER CONSUMPTION



SOUTH EAST WATER Achievement of sustainable consumption?

- Delivery of mandated programs
- Delivery of non-mandated programs
- Other opportunities
 - Integrated Water Management



SOUTH EAST WATER **Program Delivery**

- Mandated programs:
 - Showerhead exchange program (residential)
 - 170,914 showerheads exchanged since 2006/07
 - Water Management Actions Plans (non-residential) for customers using >10ML/year
 - 478 waterMAPS in 2009/10



SOUTH EAST WATER Program Delivery

- Non-mandated programs
 - Toilet Retrofit Program
 - Audits and retrofits
 - Behaviour change program
 - Rebates for nonresidential customers
 - Business water grants
 - Fire services
 - Leakage
 - Schools smart metering



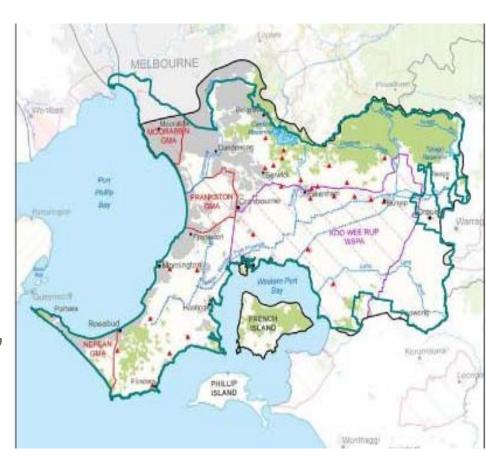




SOUTH EAST WATER Other opportunities

Selling rainwater tanks

- Development of an Integrated Water Management Strategy for the south east region
 - Groundwater, stormwater, recycled water

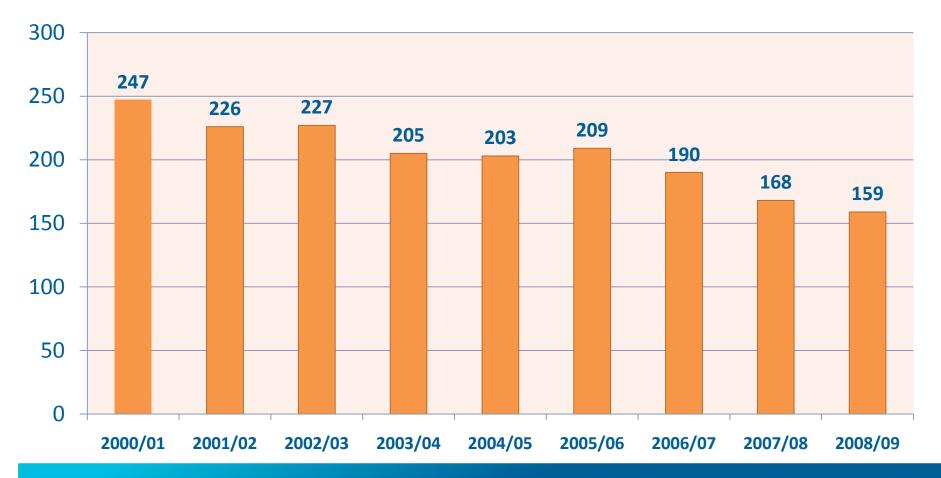




HOW ARE CUSTOMERS ACHIEVING SUSTAINABLE WATER CONSUMPTION



CUSTOMERS Average residential consumption (litres/per/day)





CUSTOMERS Expectations/Pricing

- Community expectations have changed:
 - Redefining social norms
 - More awareness of issues
 - Want to do the right thing
- Supply augmentations resulting in increased water prices
 - Save money



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