

Aurora – the new standard of living.





Aurora - Creating the suburb of the future

- Victoria's first and only 6-star energy efficient community
- Successful helping to reduce our ecological footprint
- All-encompassing view of sustainability incorporating:
 - Environmental
 - Built form
 - **Community**
- Raising the standard in environmental and urban design excellence
- Current and future residents will reap the benefits of living cleaner and greener through more efficient use of valuable resources
- "An exemplar project for sustainable development"



- ▶ Located in Epping North, 20km north of the Melbourne CBD (via freeway – adjacent to Craigieburn Bypass)
- ▶ 634ha master-planned residential development
 - ▶ Up to 8,000 6-star energy rated homes
 - ▶ Resident population of approximately 25,000
 - ▶ Project life of approximately 20 years (2025)
- Most sustainable development of its kind in Australia, with initiatives focussing on:
 - Water
 - Energy
 - Biodiversity
 - Recycling



 Urban design excellence based upon a master-planned approach – transit oriented development



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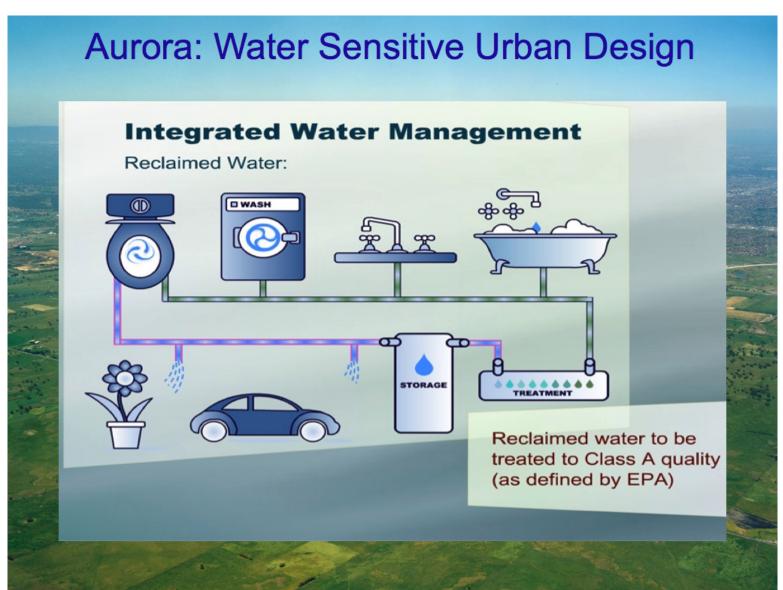
- Walkable neighbourhood
- All homes within:
 - ▶ 200m of a park
 - ▶ 400m of a bus stop
 - ▶ 800m of schools and local shops
- ▶ 20km of paths and walkways
- Creeds Farm retail / community hub
- 2 mixed-use town centres
- 5 schools
- 4 Community Activity Centres (CAC)
- 5 football / cricket ovals
- 4 soccer pitches
- 8 tennis courts
- ▶ 135ha of open space (approx 21% of site)



Water

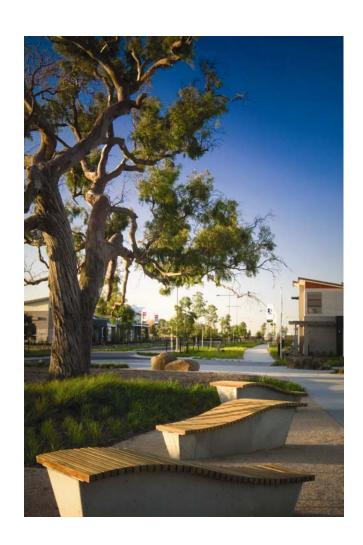
- Recycled water
 - Third-pipe system connect to every home and all parkland
 - On-site waste-water treatment plant
 - Will deliver Class A recycled water
 - ▶ Takes waste water from showers, basins, toilets, etc to treatment plant
 - Recycled water delivered back for re-use in toilets, gardens, parks
 - ▶ Recycled water available once 1,000 homes connected
- Water Sensitive Urban Design (WSUD)
 - Management of storm water using bio-retention trenches in swale drains
 - Raingardens
 - ▶ Flow restrictions fitted to taps and shower roses
 - Also looking at using rainwater for hot-water
- ▶ 100,000 glasses of drinking water could be saved per household annually





Biodiversity

- Parks, reserves, waterways recognised and enhanced / upgraded
 - ▶ Edgars Creek
- Significant conservation areas identified and protected
 - 48ha dedicated to conservation
- Significant flora and fauna species found on site:
 - Matted flax lily
 - Golden sun moth
 - Growling grass frog
 - ▶ 400 year old river red gums
- Over 130 species of indigenous plants
- Landscaping incorporating native and locally indigenous species



Energy

- 6-star energy rated homes
 - Solar orientation of homes key component
 - ▶ Minimise sun in summer, maximise sun in winter e.g. eaves
 - Designed to minimise overshadowing and overlooking
 - Improved insulation
 - Improved cross-ventilation
 - ▶ 4 & 5 star heating / cooling and cooking appliances
 - Gas boosted solar hot water
 - ▶ Reduce greenhouse emissions by up to 5 tonnes per year
 - Comparable to taking car off the road for a year
- Also undertaking a 'remote metering' program to measure performance and consumption of 6-star houses at Aurora

Recycling

- Eco-Selector
 - Specifies environmentally preferable materials
 - ▶ Each home required to meet (or exceed) specified environmental hurdle
 - ▶ Purpose is to reduce environmental impact by using materials which minimise:
 - Embodied energy
 - ▶ Resource consumption
 - ▶ Toxicity
 - ▶ Biodiversity impact
 - ▶ Eg. Use of plantation timber, steel frames, fly-ash in concrete slabs
- Construction waste
 - Recycled for use in retaining walls, paving, road works etc
 - ▶ Aims to reduce construction waste going into landfill by 85%
 - ▶ Of note, approximately 40% of all waste going into landfill is from construction and demolition

Affordability

- Increased density focused upon activity nodes
- Increased levels of public amenity
- Increased level of community services
- Well located
 - Services / jobs / transport
- House and land packages
 - ➤ VicUrban and builder partners pre-plan housing
 - ▶ Ensures highest levels of sustainability can be achieved for every home
 - ► House and land package prices highly competitive
 - ► Cleaner, greener and more affordable living



Community

- Emphasis on early delivery of community infrastructure and services
- Creeds Farm Hub
 - ► Early Learning Centre (child care centre)
 - Living and Learning Centre
 - Multi-partner development
 - ▶ Local governance structure
 - ▶ Independent primary school
 - ▶ Retail convenience store / cafe
 - Community activities & programs
 - ▶ Community governance
 - ▶ Incorporation of public art





Fibre to the Home (FTTH)

- Optic fibre cabling connected to every home
 - ▶ Free-to-air television
 - ▶ Telephony services
 - Broadband internet
 - ▶ Video on demand (VOD)
 - ▶ Foxtel pay television service
- Currently approximately 10 times faster than regular broadband
- Speed is virtually unlimited
- Way of 'future proofing' the community



