



Wyndham City 2016-2017

State of Environment Report



www.wyndham.vic.gov.au

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Wyndham City Overview



This 2016-2017 State of Environment Report for Wyndham City Council provides a snapshot of Wyndham's environment. Further, it promotes Council's environmental achievements and progress towards the Wyndham City Environment and Sustainability Strategy 2016-2040 targets.

This Report describes recent actions undertaken by Council and the Wyndham community to protect and enhance the natural environment and improve sustainability in Wyndham.

The City of Wyndham is located on the south-western edge of metropolitan Melbourne. Wyndham covers an area of 542km² and features 27.4km of coastline along Port Phillip Bay, and is adjacent to the municipalities of Greater Geelong, Moorabool, Melton, Brimbank and Hobsons Bay.

Wyndham is one of Melbourne's designated growth corridors and has one of the fastest growth rates in Victoria. Wyndham's total population in 2016 was 217,122 people, with a projected population of 384,000 in 2036. This increase in population has put strain on the natural environment of Wyndham and requires ongoing investment to keep up with demands for sustainable services like water management, waste and renewables.

Wyndham is home to many significant waterways, wetlands, coastal areas and grasslands, such as the Werribee River, Skeleton Creek, the Port Phillip Bay coastline, the Truganina Cemetery remnant grassland, the Point Cook Coastal Park and the Western Treatment Plant Wetlands.

Wyndham City Environment and Sustainability Strategy 2016-2040 - Our Environment, Our Climate, Our Future

Wyndham City's strategy for environmental sustainability is an active document, setting the environmental agenda for our municipality until 2040. It provides short and long term pathways and targets as we endeavour to move toward a genuinely sustainable future.

While global issues such as climate change, traffic congestion, population growth and consumption patterns will affect us, we also have the opportunity to provide local responses unique to Wyndham and be leaders in providing sustainable outcomes.

This State of Environment Report will provide an update on the progress towards the short-term targets and actions and has been broken up into three broad themes:

- Sustainable City - Progressing towards a sustainable City
- Valuing Nature - Conserving and improving natural values, rural areas and the urban environment
- Council Leadership - Guiding Council's functions and governance

The progress made in 2016/2017 has been demonstrated with a coloured dot to show the movement towards the short-term targets. Red indicates that no progress has been made from the 2015/2016 baseline, yellow shows that a small amount of progress has been made, green indicates that significant progress has been made towards achieving the target and a tick indicates that the target has been achieved.

Overall this first year of the Strategy has been very successful as summarised below for all targets:

5 work not started (●)

18 some progress (●)

27 significant progress (●)

6 achieved (✔) - however ongoing effort is needed to ensure these remain at or above target.



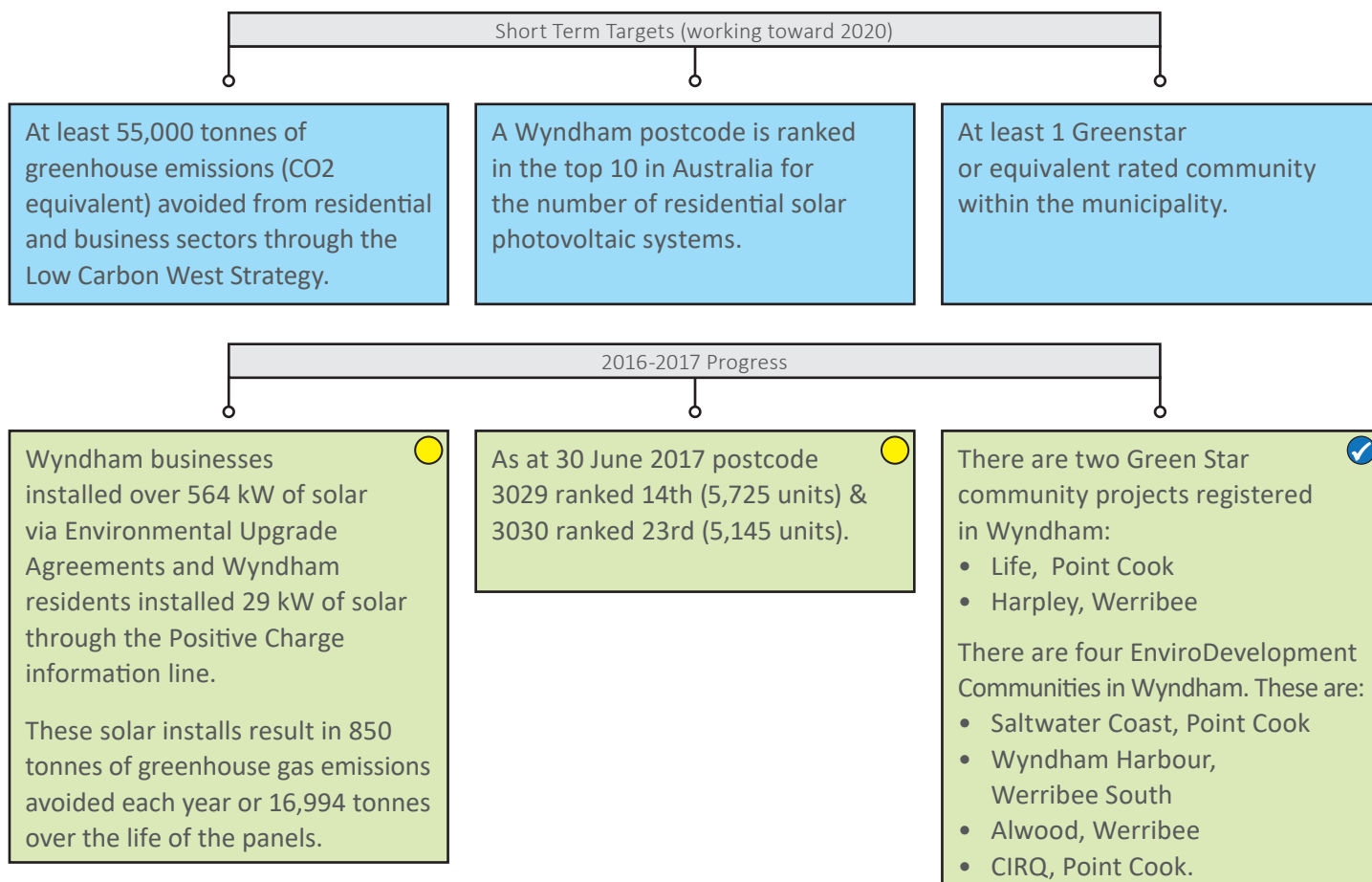
Sustainable City

Rapid growth and urban expansion has led to a number of environmental challenges facing the City, including rising greenhouse gas emissions, growing congestion on road networks, increases in waste generated and gaps in planning for a changing climate.

In order to address these changes a collaborative approach with community, regional groups and government agencies is required to achieve consistent and broad reaching improvements that will provide benefits to Wyndham and the surrounding area.

1.1 Community Energy and Greenhouse Gas Reduction

Assisting our residential community and business/industrial sectors to save energy and use alternate power sources will have long term financial and environmental benefits for our region.



Wyndham City Environment and Sustainability Strategy 2016-2040 - Our Environment, Our Climate, Our Future

1.2 Refuse Disposal Facility (RDF)

The Werribee RDF has been declared a waste hub of state-wide significance in Victoria's State-wide Resource Recovery Infrastructure Plan. Advancements in infrastructure and technology can ensure the RDF is a best practice operation leading the way in resource recovery, job creation, renewable energy and greenhouse gas abatement.

Short Term Targets (working toward 2020)

Newly developed and operational Transfer Station established.

Increase in collected recycled materials from the Transfer Station of 15%.

75% of landfill gas generated at the RDF is captured for renewable energy generation and flaring.

2016-2017 Progress

Planning for this target will commence in 2017/2018. ●

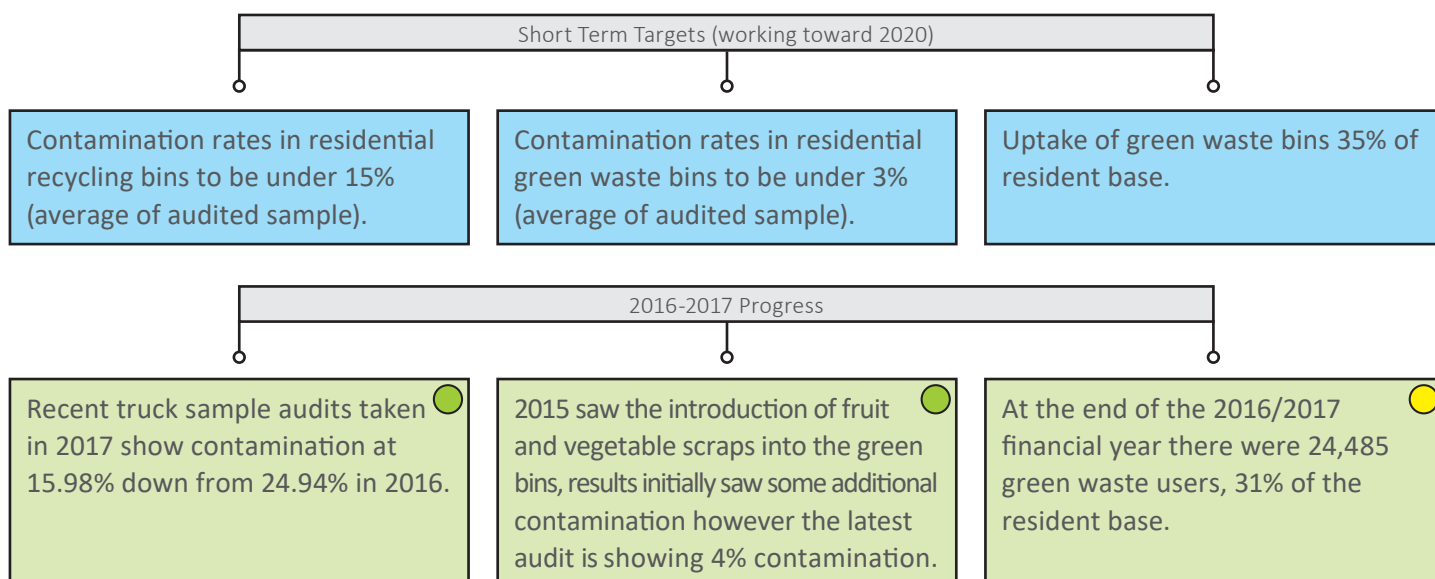
Due to changes in contractors some measurements are not comparable to baseline data. Baselines for 2016/2017 have now been established and can be tracked going forward. ●

- E-waste - 64.9 tonnes
- Tyres - 19,967 items
- Batteries: car 668 items & 754kg handheld
- Fluorescent tubes - 501kg
- Mattresses - 12,825 units
- Green Waste - 7,179 tonnes
- Plastic (hard) - 30 cages
- Metal - 1,187.325 tonnes
- Gas Cylinders - 432 units
- Paint - 65.5 tonnes

The RDF was able to capture 75% of the landfill gas generated. ✔

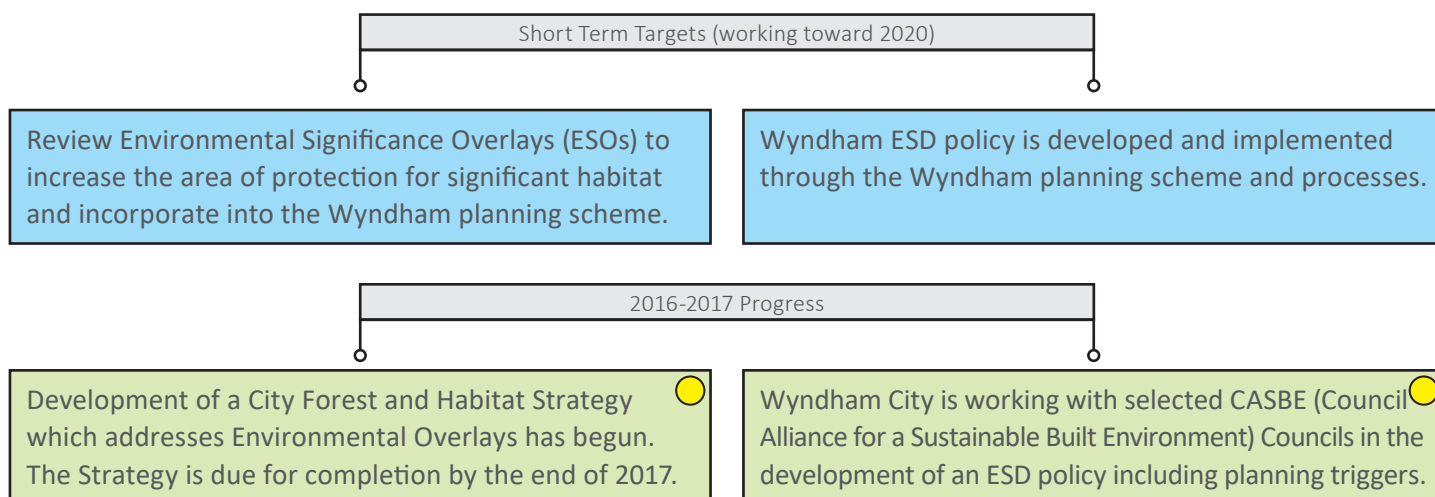
1.3 Waste and Recycling Services

There are many benefits to diverting waste from landfill; including preservation of natural resources, reduced energy and water use and reductions in greenhouse gases. Education campaigns are required to ensure Wyndham’s diverse and growing community is well informed on waste avoidance and diversion methods.



1.4 Planning Controls and Growth

An efficient way to protect Wyndham’s environmental values and reduce environmental impact is by implementing effective statutory planning requirements. Strong policy and planning controls relating to environmentally sustainable design (ESD) will significantly reduce the impact of development on the broader environment.



Wyndham City Environment and Sustainability Strategy 2016-2040 - Our Environment, Our Climate, Our Future

1.5 Urban Ecology

Urban habitat for flora and fauna is essential for community interaction with nature and providing corridors that connect with larger natural areas inside and outside the municipality. These areas will be protected through statutory planning controls, community action and management.

Short Term Targets (working toward 2020)

Wyndham Habitat Plan developed and implemented through the Wyndham Planning Scheme, identifying key ecological values and natural places within Wyndham, and linkages between values.

At least 12% tree canopy cover within urban public open space.

2016-2017 Progress

The Wyndham City Forest and Habitat Strategy is due for completion by the end of 2017.

As of 2017, Wyndham City has approximately 9% urban tree coverage within the 2010 Urban Growth Boundary.

Reverse Vending Machines

Wyndham City became the first Victorian Local Government to install reverse vending machines in December 2016.

Three machines are located at AquaPulse, Eagle Stadium and Stockland Point Cook with a fourth machine soon to be installed at the Hoppers Crossing Shopping Centre. Reverse vending machines accept used (empty) beverage containers and return vouchers to the user.



1.6 Transport

With rapid population growth and development pressures, Wyndham's road network is increasingly congested, driving the need for more sustainable transport options and alternative ways to travel across, in and out of the City.


Short Term Targets (working toward 2020)


Increase weekday train patronage from Wyndham stations to the City to 15% of Wyndham's population.


Increase weekday bus patronage to 10% of Wyndham's population.

A minimum of 3 km of new bike lane/pathway is constructed each financial year.

2016-2017 Progress

In 2016 weekday train patronage was 10.5% of Wyndham's population. Wyndham City now has a dedicated Integrated Transport Policy and Strategy to guide its approach to transport. 

In 2016 weekday bus patronage was 7.9% of Wyndham's population. Wyndham City now has a dedicated Integrated Transport Policy and Strategy to guide its approach to transport. 

22 kilometres of shared pathways were constructed in Wyndham in 2016/2017. Figures include both Council and Developer built paths. 

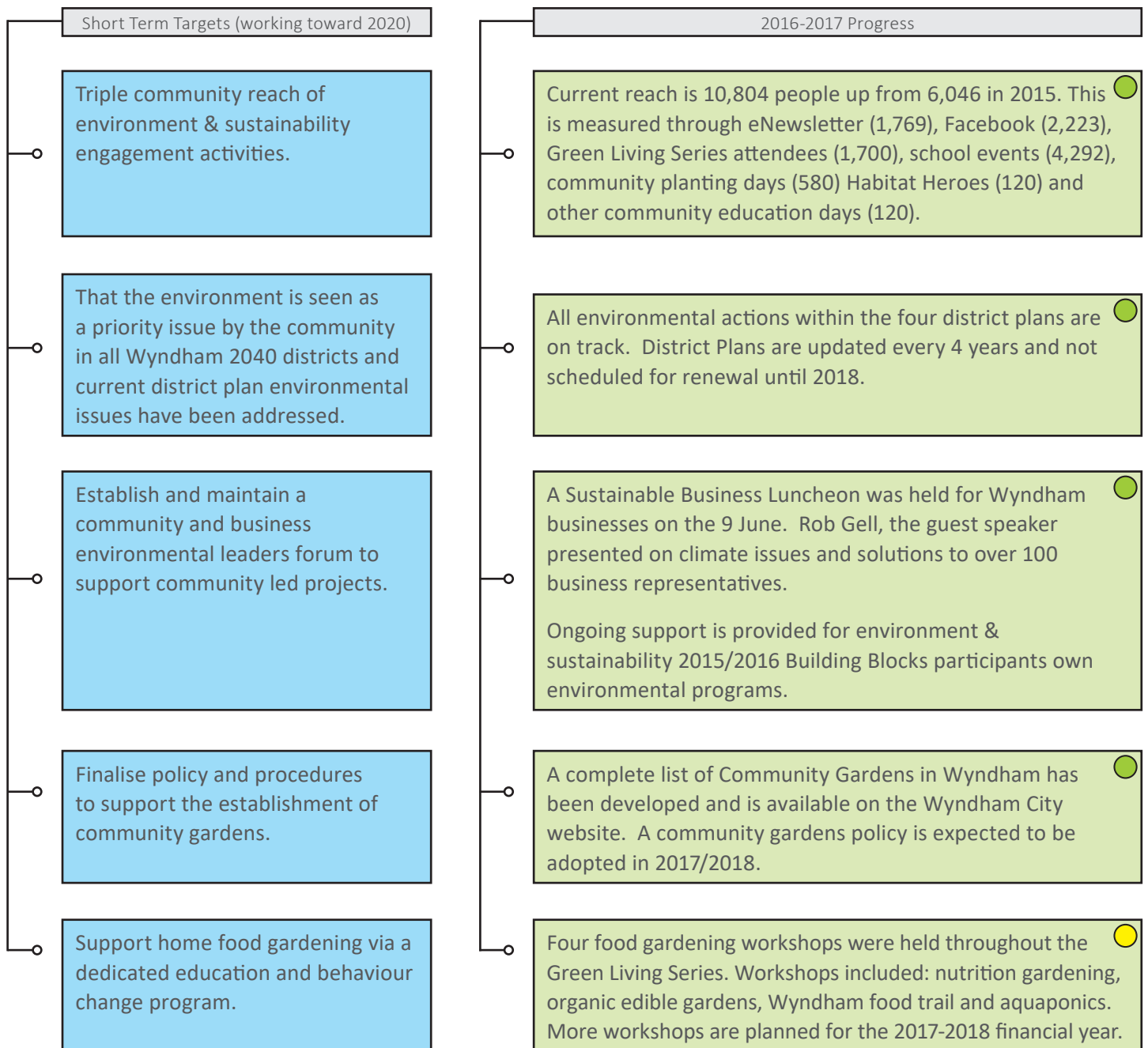
*Figures based on 6 months of 2016 data. Updated figures will be provided when available.

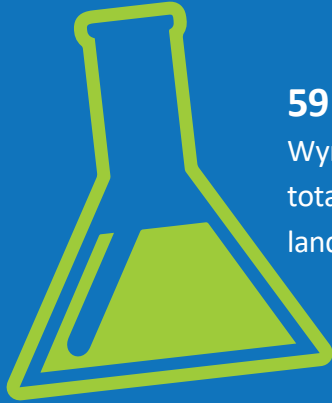


Wyndham City Environment and Sustainability Strategy 2016-2040 - Our Environment, Our Climate, Our Future

1.7 Community Engagement

Community engagement leads to more connected neighbourhoods and districts, and a stronger sense of place. There are many benefits for having targeted and planned involvement with the community; such as building capacity and leadership, reaching 'disengaged' individuals and to instil positive behaviour change amongst the community.





59 residents took part in the **Detox Your Home** day in Wyndham, diverting an average of **29.26kg** per person. This totals to **1,727kg** of household chemical products saved from landfill, a **24% increase** in materials from last year.

The Compost Revolution Program noticed a big increase in orders of worm farms and compost bins with **352 orders placed** in the year, this was an **increase of 163% compared** to the 134 orders in 15/16. Since program commencement **133,933kg** of food waste has been diverted from landfill, saving over **213,878kg** of CO₂ emissions.



305 vehicles took part in the Pop Up Recycling Day, diverting **21.4 tonnes** of material from landfill including **89 large items** which were collected by the West Welcome Wagon.

An environmental dividend policy was adopted by Council in March 2017, this policy sees a portion of profits from the **Refuse Disposal Facility** cordoned off to help fund environmental initiatives.



Case Study – Sustainable City

Lighting up Werribee

More than 1000 street lights across the city, including the Werribee CBD, are being upgraded from the existing high pressure sodium (HPS) globes to energy efficient LEDs.

The project will save more than 500 tonnes of greenhouse gases per year - the equivalent of taking about 150 cars off the road, and saving Wyndham City Council roughly \$100,000 per year.

Unlike the existing lights, LEDs don't contain toxic chemicals like mercury which can be released when damaged. An LED light lasts between 10 and 20 years, which is up to five times the life of the existing lights.

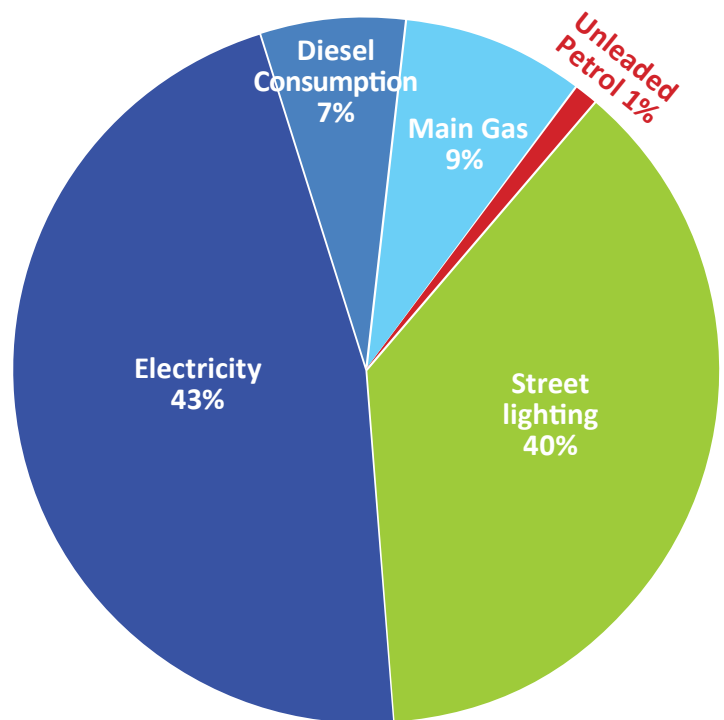
Almost 12,000 streetlights were upgraded in residential streets across the municipality as part of the Lighting the West project, a partnership between Wyndham City, Moonee Valley, Maribyrnong and Hobsons Bay councils with Federal Government funding.

The original Lighting the West project ran from July 2014 to May 2016. Wyndham City has decided to continue the project by changing lights through town centres and major roads. It will begin in Werribee's City Centre, and then continue into main areas of other Wyndham suburbs and major roads.

For more information visit www.lightingthewest.com.au

Emissions Breakdown for Wyndham City Council (tonnes CO₂e)

In 2016/2017 electricity consumption in Council buildings was the greatest contributor to Council's greenhouse gas emissions. This is the result of an increase in the number and use of community buildings.



Includes estimated data where bills are not yet available. Excluding RDF Emissions.



Valuing Nature

Wyndham is home to a number of significant waterways, wetlands, coastal areas and native grasslands, including the Werribee River, Little River, Skeleton Creek, the coastline, Truganina Cemetery remnant grassland, Point Cook Coastal Park and Western Treatment Plant Wetlands. The security of these significant sites cannot be taken for granted as most native vegetation types they support have been cleared elsewhere and are now classified as endangered, vulnerable or depleted.



Valuing Nature

2.1 Coast

Wyndham's coastline is likely to experience increasing use and visitors over the coming years. Increasing access and climate change will present varied issues, and will need to be well managed and supported to ensure the quality of coastal natural assets is maintained and enjoyed by all.

Short Term Targets (working toward 2020)

Wyndham Coastal Strategy developed and implemented through the Planning Scheme.

Conduct an audit of assets, infrastructure and environmental values along Wyndham's coastline to assess current and future risks from coastal processes.

Wyndham coastline remains undeveloped and its environmental values protected.

2016-2017 Progress

Work will commence on developing a Wyndham Coastal Strategy later in 2017. Wyndham also contributed to the Association of Bayside Municipalities Bay Blueprint - a Port Phillip Bay plan for coastal adaptation www.abm.org.au

Work will commence in 2017/2018.

A baseline coastal flora and fauna study has been completed.



2.2 Land Management

Wyndham's rural land and natural areas need to be maintained and managed to reduce the impacts of weeds and feral animals on environmental and agricultural values.

Short Term Targets (working toward 2020)

Increase in area of private rural land managed through the Land Protection Grant Scheme or equivalent land management program by 20%.

Increase in weed control awareness and accountability among rural landowners through local education programs.

2016-2017 Progress

This year the Land Protection Grant Scheme delivered:

- 939 hectares of landowner works undertaken on 44 properties – an increase of 69% from 2015/2016
- 1,400 plants, planted on 4 properties
- 405 ha of contractor weed control and revegetation works on 15 properties.

3 community events were run targeting rural landowners with approximately 186 attendees.

Brochures and letters were sent with weed control information to relevant residents.

Habitat Heroes

60 properties took part in the Habitat Heroes program planting over **1,800 indigenous plants** and installing **62 nest boxes in residential yards** to create habitat stepping stones.



Valuing Nature

2.3 Biodiversity

Wyndham’s rural land and natural areas need to be maintained, enhanced and protected as destinations of enjoyment and appreciation for the community. Showcasing the unique natural features for Wyndham will instil a sense of pride and contribute to a positive quality of life for our community.

Short Term Targets (working toward 2020)	2016-2017 Progress
<ul style="list-style-type: none"> Increase in overall extent and condition of native habitat conservation sites on Council land whilst protecting cultural heritage and being informed by indigenous land management practices. 	<ul style="list-style-type: none"> Council has increased communication with Traditional Owner groups to incorporate indigenous land management techniques into our conservation management programs. Areas of You Yangs Rd Reserve have been walked with indigenous land managers and preliminary planning continues for a potential bush tucker food larder. ●
<ul style="list-style-type: none"> Commence an enhanced biodiversity monitoring program on Council managed conservation sites. 	<ul style="list-style-type: none"> Methodology trial will commence in 10 high value areas across 3 waterways in Spring 2017 with a roll out proposed for 2018. ●
<ul style="list-style-type: none"> All Council managed conservation sites to have a site action plan prepared, implemented and reviewed annually. 	<ul style="list-style-type: none"> There are 38 active site action plans in place and the remaining 15 sites will be completed and implemented in the field by the end of Spring 2017. ●
<ul style="list-style-type: none"> Protect the entire Western Grassland Reserve from development or encroachment. 	<ul style="list-style-type: none"> The future Western Grassland Reserve remains incorporated in the Wyndham Planning Scheme as a State Government acquisition and asset. State Government officers have advised 1,243 hectares of the Western Grassland Reserve (8.3%) have currently been acquired by the State Government. ●
<ul style="list-style-type: none"> Advocate for dedicated State resources to manage pest plant and animals in the Western Grassland Reserves and surrounding areas. 	<ul style="list-style-type: none"> Council advocated for a Weed Management Group which has now been formed to address weed issues on land yet to be acquired for the Western Grassland Reserves. In 2016/17 additional funding was secured from the State Government to address priority weed issues in areas affecting Wyndham landowners. ●

2.4 Litter

Litter is Wyndham's most visible form of pollution; it is imperative that a combined approach of education, infrastructure and enforcement is utilised to tackle this issue.

Short Term Targets (working toward 2020)

Increase in number of community litter reports by 25%.

Develop baseline on infringements issued against illegal dumping events by 2018.

Develop robust reporting and classification of littering data (e.g. separation of street sweeping, litter bins, dumping, roadside litter figures).

25% reduction of litter at 15 regularly monitored locations including rural, urban, industrial, developing, waterways and coastal areas

2016-2017 Progress

In 2016/2017 we had 2,722 litter reports, an increase of 35% from baseline. ✓

- 2,231 building site infringements were issued
- 51 general litter infringements were issued
- 2 court cases relating to illegal dumping.

Baselines have been established. ●

Baseline data has been established at 15 locations. These baseline results will be compared in the coming years. ●



Valuing Nature

2.5 Waterways

Wyndham’s waterways are some of our community’s most valued natural areas, providing habitat for a diversity of native plants and animals, they are highly frequented places of recreation and wildlife appreciation.

Short Term Targets (working toward 2020)	2016-2017 Progress
<p>Completion of an audit of all gross pollutant traps (GPT’s) within the municipality, measuring the design, maintenance and source of litter for each outlet.</p>	<p>Review of all of Council’s GPT and Wetland assets has been completed using grant funding from Melbourne Water’s Living Rivers Fund. Next steps include measuring the source of litter from each asset and continue rectification works based on the review recommendations. ●</p>
<p>Water quality monitoring locations and/or modelling to measure and report water quality status on the lower reaches of the Werribee River</p>	<p>Lower reach water quality monitoring conducted by Werribee River Association/Waterwatch at Bungeys Hole. ●</p>
<p>Agreement from all relevant authorities to increase environmental flows to lower reaches of Werribee River, including the water resources to be used.</p>	<ul style="list-style-type: none"> • Additional environmental flows were secured for the 2016/2017 summer ● • The Central Region Sustainable Water Strategy has identified 6,000 ML/year of additional future environmental flows, including a portion of savings from the Werribee South irrigation upgrade project that is now underway. • The State Government released the new State Water Plan: Water for Victoria with the Werribee River listed as one of 36 priority river systems.
<p>Improved environmental flow compliance as reported in the Melbourne Water seasonal watering proposal.</p>	<p>Most environmental flow objectives for the Werribee River in Wyndham were at least partially met. Increased flow compliance was due to good rainfall in the upper catchment and environmental flow releases. 2016/2017 saw the largest ever environmental flow release in the Werribee River which will be positive for platypus and native fish species. ●</p>
<p>Decrease in the frequency and duration of summer blue green algae blooms in the lower Werribee River.</p>	<p>The 2016/2017 summer did not see any algal blooms in the Wyndham stretch of the Werribee River. ●</p>



15 sites across Wyndham participated in **Clean Up Australia Day** and collected over **700kg of litter**.



580 people took part in community planting days to **help plant 16,200 trees**.



The Hook, Line & Litter project saw a **reduction of 63%** in litter at key fishing monitoring sites. As part of the program, signage and **ten fishing litter bins were installed** along the Werribee River and foreshore.



Throughout 2017, Council will have **planted just under 7,000 street trees** around the municipality.

Two prescribed burns were conducted entirely by Wyndham City's Conservation Unit at Cobbledicks Ford Reserve and Gleeson's Road Reserve. **Eleven prescribed burns** are planned for 17-18 which **will then be sown with 278 bags of indigenous wildflower seeds**.



This year the Wyndham City Council:

- **Planted 29,700 tube stock plants.**
- **Cast 21.3kg of indigenous grass seed.**
- **Translocated 8 endangered plants** from an area where development would have seen them lost. These plants include featherheads, spiny riceflower and creamy candles.

Case Study - Valuing Nature

Habitat Heroes – Creating Wildflower Meadows in the Suburbs

Carol from the Spring 2015 round of Habitat Heroes has done a wonderful job of creating a wildflower meadow and haven for birds, and insects in her own front yard.

Carol started the program with no idea on what could be created in her garden. After learning more about grasslands, she decided that she loved the look of the local wildflowers and wanted to create a wildflower meadow of her own.

Carol and her husband Les worked hard to control the grass in her yard, creating a garden bed and putting organic matter into the soil before planting out her meadow.

The plants are now thriving and Carol has noticed an increase in butterflies, bees, insects and birds in her yard. She has also put out some basking rocks and hopes that lizards will soon come for a visit. She has planted out another couple of sections within her front and back yards and has plans to extend it even further.



Case Study - Valuing Nature

Habitat Trees

Dying or dangerous trees which would have previously been removed are now being trialled as habitat trees.

After much of the tree is removed, different sized hollows are made in the remaining trunk for locally indigenous animals such as sugar gliders, possums and bats.

Tree hollows are important for many of our indigenous animals, including many threatened species, which require hollows for shelter and nesting. Unfortunately, tree hollows usually take a long time to form (usually

between 100-150 years), so this kind of habitat is becoming increasingly rare. Habitat Trees and nest boxes are a necessary part of replacing these lost shelters.

If the tree needs to be removed from a location, logs are starting to be milled into park furniture such as benches for the community to use. It's a great way to ensure that even if a tree is removed it is still providing benefit.



Council Leadership

As an organisation which provides multiple and varied services including; buildings, open spaces, facilities and community events, Wyndham is in a position to role model and showcase environmental principles and practice across a broad range of functions.

With residents accessing facilities and events on a regular basis, there are many opportunities to inspire and share learnings on enhancing the environmental benefits of building design and operational programs which the community can adopt and use in homes and businesses. Further, embedding a more sustainable approach to how we operate our facilities will result in a longer life of assets and significant long term cost savings in relation to energy and water use.



3.1 Greenhouse Gas and Air Pollution Reduction

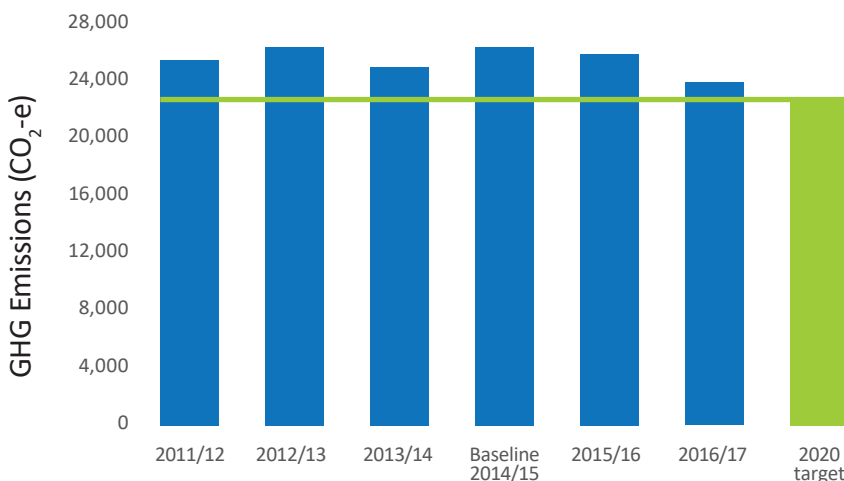
Improving energy efficiency of Council’s buildings, fleet, facilities and operations will result in long term financial savings and reduce Council’s carbon footprint.

Short Term Targets (working toward 2020)

- Reduce Council’s corporate greenhouse emissions (CO₂ equivalent) by 12% below a 2014/2015 baseline, excluding the RDF.
- 85% of Council’s fleet cars and utes will be 4 cylinder engine capacity.
- 80% of Council’s passenger vehicles will be powered by a source other than diesel including a review of diesel vehicle air quality emissions.
- An alternative fuel (e.g. electric) passenger vehicle trialled for consideration in Council’s future fleet purchases.

2016-2017 Progress

- Council’s corporate greenhouse emissions in 2016/2017 have reduced by 8% compared to the baseline year (2014/2015).
- Currently 77% of Council’s fleet cars and utes have 4-cylinder capacity.
- Currently 72% of Council’s passenger vehicles are powered by a source other than diesel. A review of diesel vehicle air emissions will be part of the new Motor Vehicle Policy.
- Wyndham has trialled and are currently purchasing Hybrid vehicles. Plug in hybrid SUVs have also been trialled and they are being considered as a replacement for diesel vehicles.



Wyndham City Council’s Annual Greenhouse Gas Emissions

Even though Council experienced significant growth, greenhouse gas emissions from Wyndham City Council’s operations decreased by 8% or 2,069 tonnes in 2016/2017. This has been achieved mainly through the bulk changeover to energy efficient streetlights. This reflects Council’s resolve to realise its 2020 greenhouse reduction target of 12%.

Includes estimated data where bills are not yet available. Excluding RDF Emissions.

Council Leadership

3.2 Integrated Water Management

As a significant user of water and stormwater manager, Council has an important role to play in saving water and supporting healthy waterways.


Short Term Targets (working toward 2020)


Achieve Council water use efficiency (mains and recycled) of 2.3 KL/per resident/per year.


At least 32% of Council's water use demand to be from alternative water sources.

At least a 10% increase in the number of Council stormwater treatment wetlands that meet Melbourne Water's Constructed Wetlands Design Manual best practice design standards (2015).

2016-2017 Progress

Council's 2016/2017 water use was 2.19KL/per resident, achieving the 2020 target. 

Alternative water supplies contributed to 16% of Wyndham City's water demand in 2016/2017 which is a decrease from last year. 

Rectification works for the poorest functioning wetlands have been programmed. 



3.3 Environmentally Sustainable Design (ESD)

Council owns and operates a number of buildings of varying size and functionality. Operational costs and environmental impacts demonstrate the necessity for environmentally sustainable design.

Short Term Targets (working toward 2020)

All major new buildings and refurbishments achieve a minimum of 5 Star Green Star.

All minor new buildings and refurbishments achieve a minimum 50% score using the CASBE Built Environment Sustainability Scorecard.

All furniture and equipment upgrades and building maintenance meets Council ESD Framework Standards.

2016-2017 Progress

The Wyndham Aboriginal Community Centre and Integrated Family Centre commenced planning. This project has been designed to meet 5 Star Green Star specifics. This major project is expected to be completed in 2019 and will be the first Council project to reach this exceptional standard of design. This is the only major new building to commence in the 2016/2017 year.

12 minor new building and/or refurbishment projects took place in 2016/2017. Out of these 12 projects, 83% were compliant with meeting the ESD Council Framework.

Work will commence in 2017/2018.



Council Leadership

3.4 Council Facilities Operational Waste

With growing financial and environmental costs associated with landfilling waste, Council facilities and events need to apply measures to limit waste generated and increase resource recovery.



All sports buildings will have recycling facilities.

30% of Wyndham Civic Centre organic waste (by weight) diverted from landfill.

Contamination rates in the comingled, paper and cardboard recycling will be no higher than 5% at the Wyndham Civic Centre.



48 of the 55 sporting clubs currently have a recycling service.

56% of the waste stream (by weight) is made up of organic material, this is a 4% reduction from the baseline. Equating to a diversion rate of 21%.

Changes in bin infrastructure at the Civic Centre resulted in an update to the audit method. An audit will take place in May 2018.



3.5 Climate Change Adaptation

Uncertainties around climate and extreme weather events ensure we must plan, design and implement facilities, which can withstand increases in temperature, droughts, storms and flood risks. Ensuring our community is responsive to these events will contribute to future prosperity and wellbeing.

Short Term Targets (working toward 2020)



Wyndham will complete all of the actions in the Climate Change Adaptation Strategy.

2016-2017 Progress



- In 2016/2017 the following Climate Change Adaptation Strategy actions were completed:
- Development and reporting on climate change indicators as part of the regional 'How Well Are We Adapting' project.
 - Development of an Integrated Water Management Plan.

3.6 Sustainable Procurement

Reducing the environmental impact of Council's purchases by selecting environmentally sound goods and services, including locally provided products is important. As a large purchaser of goods and services (capital and operating) Council has the potential to provide a significant positive impact on supply chains.

Short Term Targets (working toward 2020)



5% of all Council procurement to meet sustainable procurement standards.



All tenders above \$500,000 to have an environmental schedule within the tender specifications that is weighted and scored during the selection process.

2016-2017 Progress



4.5% of all Council procurement met sustainable procurement standards, with total expenditure on sustainable products remaining well above the baseline.



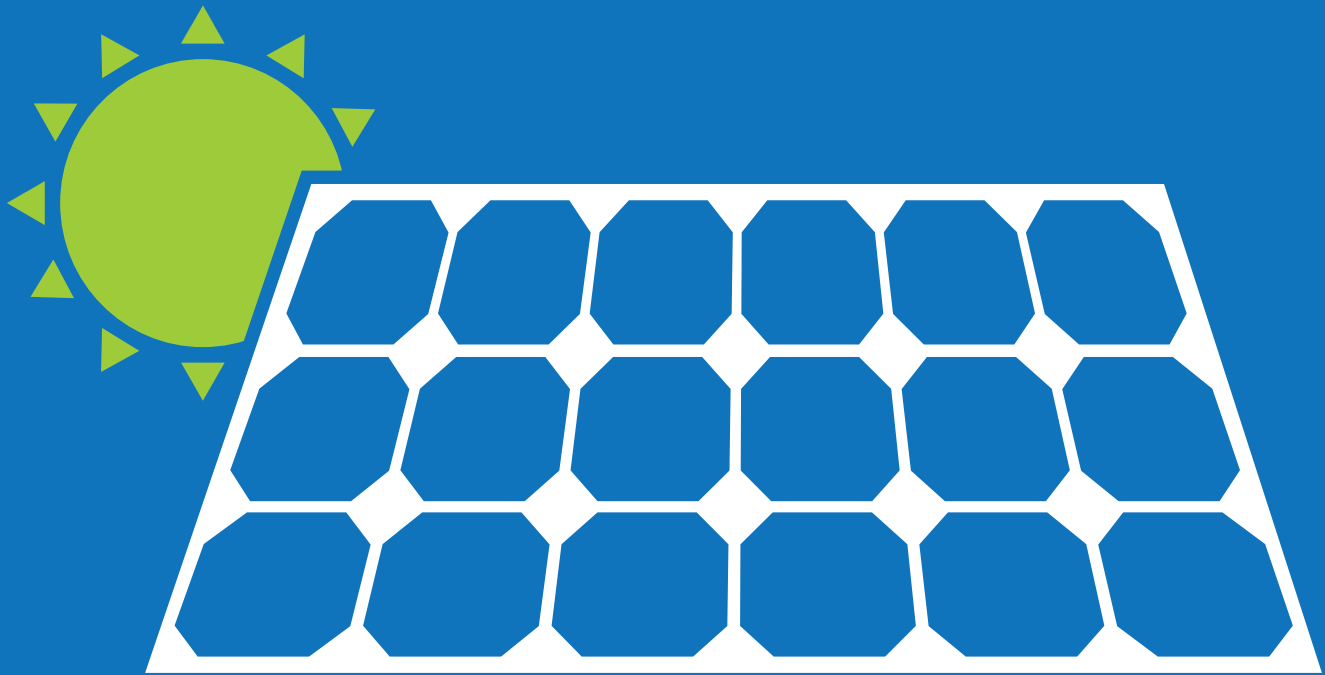
93% of tenders above \$500,000 included the environmental schedule.

Council Leadership

Currently Council has the **capacity to generate 1,292,370 kWh per year from renewable energy**. This could provide enough energy to **power 263 Victorian households** (Electricity Bill Benchmarks, March 2015)

Current **savings of \$146,000/year** are expected from the large scale solar scheme.

A total of **983 kW of solar PV panels** have been **fitted across 24 Council buildings** under the large scale solar rollout program, including community centres, kindergartens and sporting pavilions.

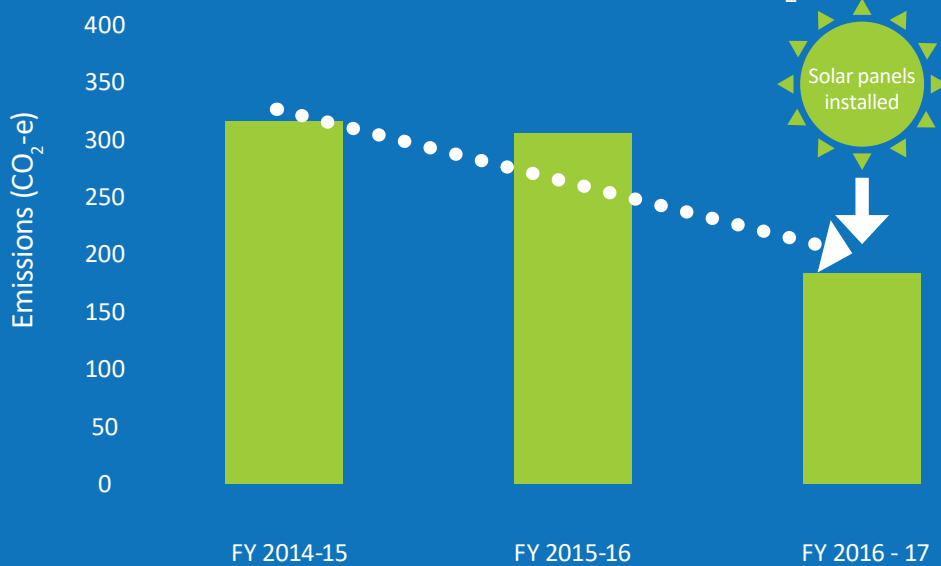


1,408 tonnes of greenhouse emissions per year will be offset annually from Large Scale Solar projects which is **equivalent to taking 464 medium sized vehicles off our roads each year** (<http://www.greenvehicleguide.gov.au/>)

1,000 Main Road lights have been **retrofitted to LED**

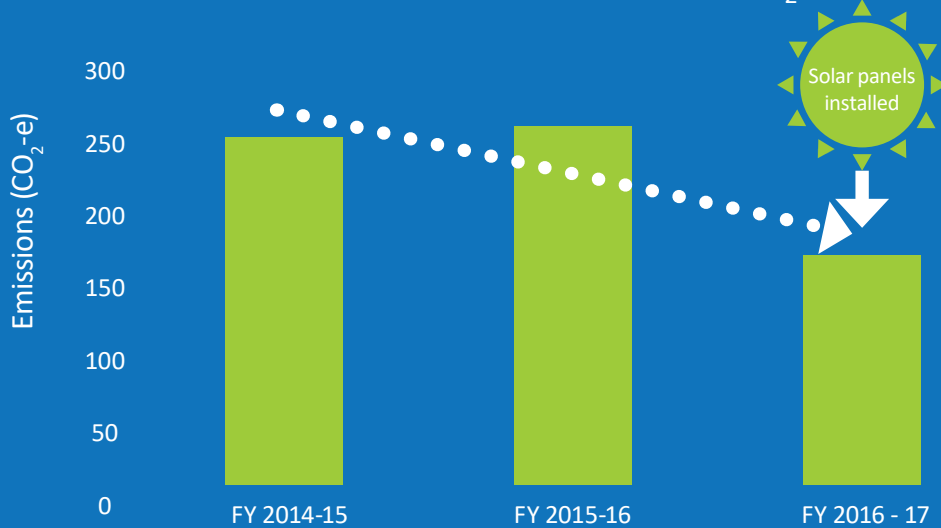
455 Open Space lights have been **retrofitted to LED**

Wyndham Vale Community Centre Greenhouse Emissions (tonnes CO₂)



137kW of solar was installed at the Wyndham Vale Community Centre reducing greenhouse gas emissions by 40%. This reduction is equivalent to taking 41 medium sized vehicles off our roads each year.

Youth Resource Centre Greenhouse Emissions (tonnes CO₂)



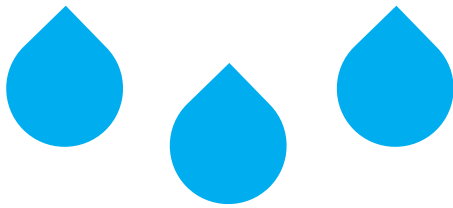
77kW of solar was installed at the Youth Resource Centre reducing greenhouse gas emissions by 36%. This reduction is equivalent to taking 30 medium sized vehicles off our roads each year.

Includes estimated data where bills are not yet available.

Council Leadership

Wyndham Integrated Water Cycle Management Plan

In July 2017, Wyndham City adopted an Integrated Water Cycle Management Plan which will plan and manage water supply and quality over the years to come. The Plan recognises the social, economic, and environmental values of water to its community.



sustainable purchasing summary 2016-17
Wyndham City Council

\$8,305,133 total spend on sustainable goods and services

by spend types

- Green services
- Energy and greenhouse
- Green power
- Refurbished
- Other green services
- Recycled content

Sustainable procurement example

In 2016-17, 90% of Wyndham City Council's capital works tenders included an evaluation of tenderers' responses to the Environmental Management System Questionnaire, and was included as a weighted criteria.

sustainable spend versus peer groups

relative sustainable spend

4.5% of total council expenditure

\$99 per rateable property

top five sustainable purchases

1. Asphalt (recycled content)
2. Building and construction (energy efficient)
3. Vehicles (energy efficient)
4. Lighting (energy efficient)
5. Mobile garbage units (recycled content)

environmental savings

Savings from the purchase of paper and mobile garbage bins have contributed to environmental savings of:

0.3 hectares of land

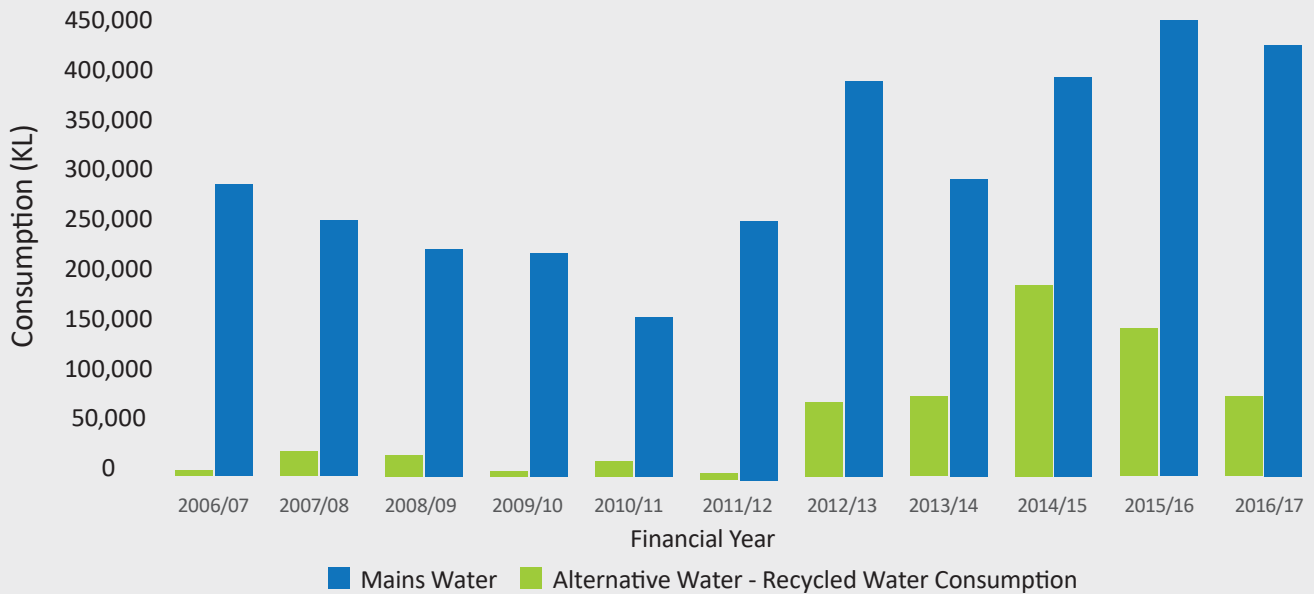
171 tonnes of carbon dioxide equivalent

recommended actions

1. Install solar panels at Eagle Stadium, Point Cook Community Centre, Wyndham City Council Depot, Saltwater Community Centre and various other sites.
2. Implement stage 3 energy efficient outdoor lighting upgrades.
3. Program and funding for stage 3 energy efficient street lighting upgrades.

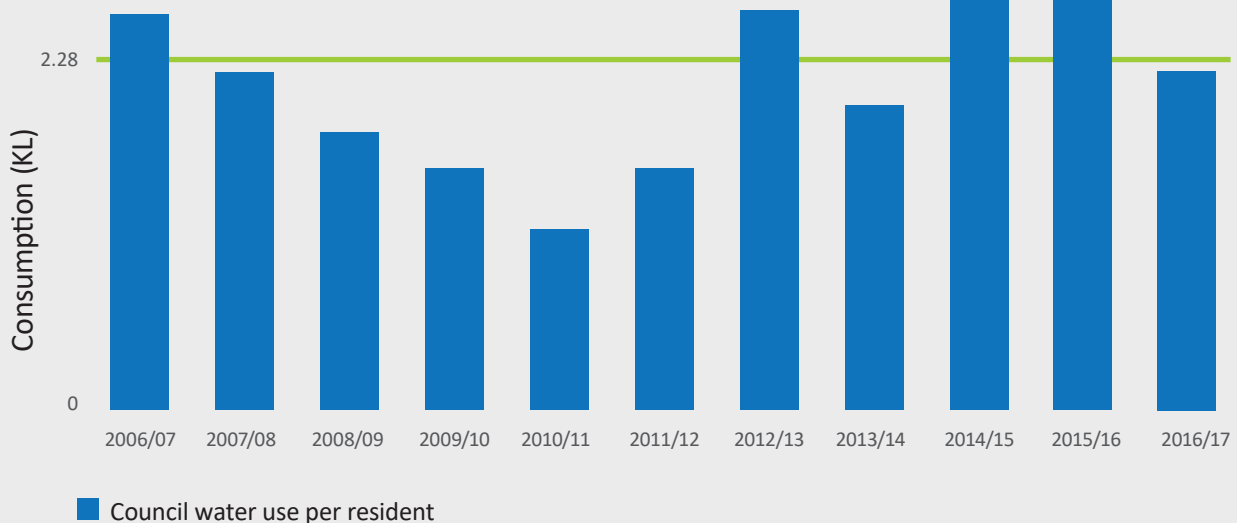


Wyndham City Council's Water Use



Alternative water supplies contributed to 16% of Wyndham City's water demand in 2016/2017. Overall Council's water usage has reduced by approx. 14% compared to 2015/16. The decrease is largely due to the installation of a new central control irrigation system, and a wetter than average spring in 2016.

Wyndham City Council's Water Use Efficiency (Mains and Alternative Water)



Council has achieved its 2020 target of 2.3 kL/per resident, in 2016-2017 Council's use efficiency was 2.19 kL/per resident.

With thanks...

To the members of the Wyndham community for providing information for this report. Are you doing any environmental monitoring in Wyndham?

If so, we would like to hear from you!

Please contact Wyndham's Department of Environment and Water on **9742 0777** or mail@wyndham.vic.gov.au

