



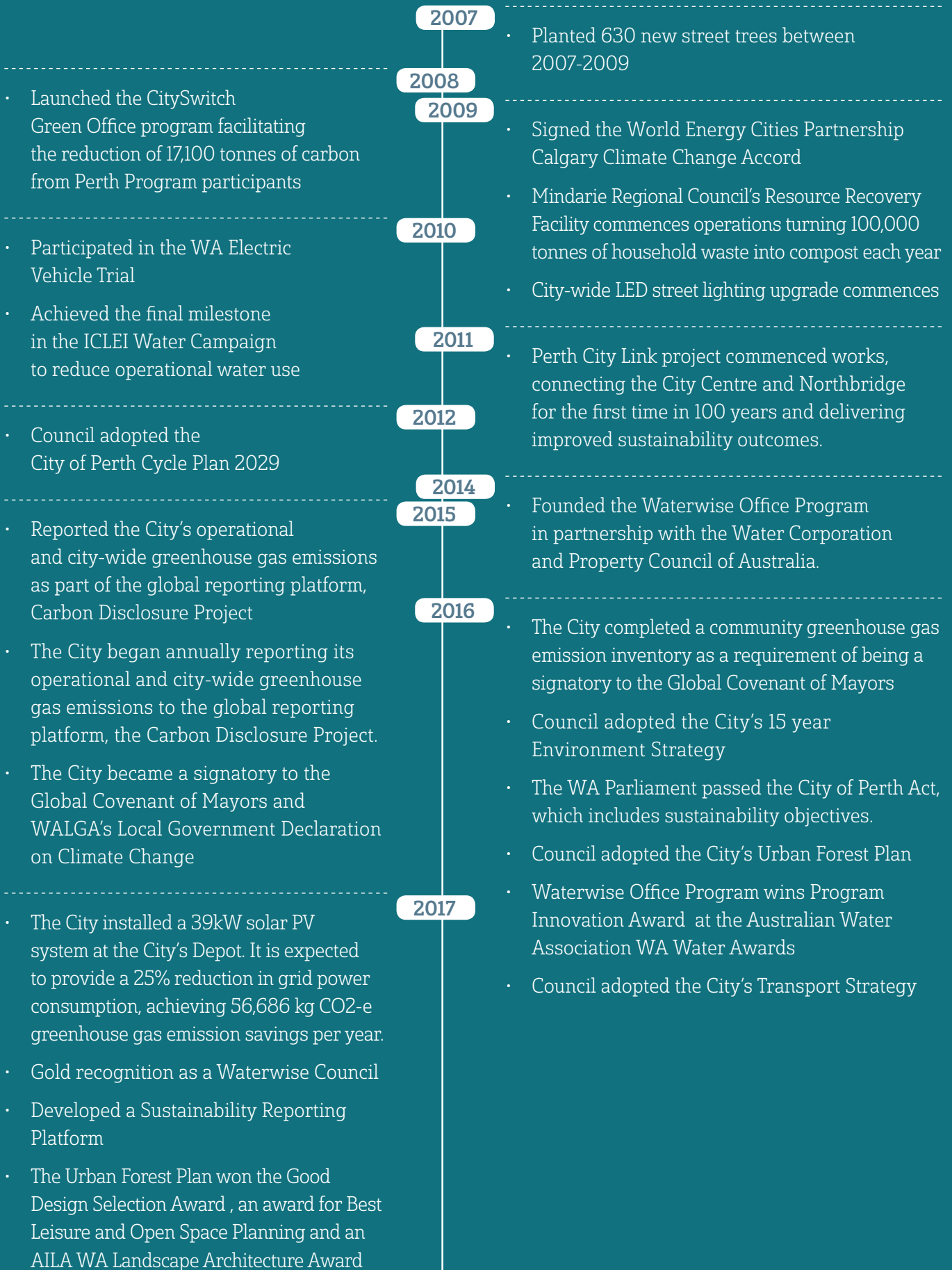
City of Perth

Environment Snapshot

July 2017








Sustainability Achievements





City of Perth Environment Strategy

The City of Perth has adopted the following targets to guide our sustainable direction for the future

Focus area	City of Perth Operational Targets	Community Targets
 Environmental Sustainability and Health	<ul style="list-style-type: none"> Reach 50,000 community members per year to raise awareness of environmental sustainability by 2030 	<ul style="list-style-type: none"> 30% of net lettable area of existing office space participates in environmental programs, such as CitySwitch Green Office and Water Wise Office by 2030
 Climate Response	<ul style="list-style-type: none"> All City of Perth Asset Management Plans incorporate climate response considerations by 2030 	<ul style="list-style-type: none"> The city scores 50% or above in disaster resilience as assessed by the United Nations Office for Disaster Risk Reduction by 2030
 Energy Resilience	<ul style="list-style-type: none"> Reduce City of Perth operational emissions by 30% (2011 baseline) by 2030 Source 25% of the City's operational energy from renewable or low carbon sources by 2030 	<ul style="list-style-type: none"> Work with the community to achieve 30% reduction in city-wide greenhouse gas emissions (BAU baseline) by 2030 Work with the community to achieve 20% of citywide energy use from renewable or low carbon sources by 2030
 Water Sensitive City	<ul style="list-style-type: none"> Reduce scheme water use in City of Perth operations by 25% and increase use of alternative water sources by 2030 	<ul style="list-style-type: none"> Work with the community to achieve residential water use below 78kL per person per year by 2030
 Waste Conscious City	<ul style="list-style-type: none"> Achieve 65% recovery of municipal solid waste, 70% recovery of commercial and industrial waste, and 75% recover of construction and demolition waste by 2020 and develop new recovery targets set for 2030. 	

This publication is available in other formats on request.
 Download City of Perth Environment Strategy at perth.wa.gov.au/environment
 or visit the City of Perth website at www.perth.wa.gov.au



City of Perth



Environmental Sustainability and Health

City Switch

CitySwitch is a high-value no-cost service which supports commercial office tenants to improve energy efficiency, reduce carbon emissions, manage office waste, and create buildings conducive to human health, wellness and productivity. Through CitySwitch, program signatories ultimately aim to achieve a 4.5 star or higher National Australian Built Environment Rating System (NABERS) Energy rating.

Sustainability Reporting Platform

The City has developed a new tool for measuring, monitoring and reporting its corporate organisational and citywide sustainability progress. The Sustainability Reporting Platform collects, analyses and visualises the City's energy, water and emissions data assisting the City to understand its progress towards its targets outlined in the City's Environment Strategy. The Platform provides visualisation of the effects of urban development on citywide emissions, and energy and water use. The City plans to use the Platform to communicate progress of the City's actions to the community.



Environmental Sustainability and Health

Flora and Fauna

The presence of two threatened ecological communities, listed under the Environment Protection and Biodiversity Conservation Act 1999, have been recorded in the City, including:

- Banksia Woodland of the Swan Coastal Plain; and
- Subtropical and Temperate Coastal Saltmarsh.

The Subtropical and Temperate Coastal Saltmarsh at Heirisson Island supports two ant species and a butterfly that are only present in this region because of the saltmarsh.

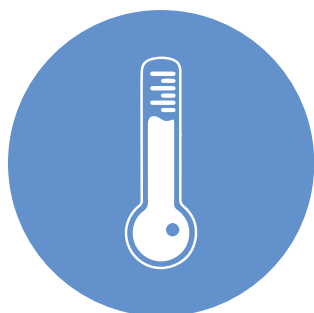
The City completed a Green Infrastructure and Biodiversity Study in June 2017. Some interesting findings include a Brush-tailed Possum, *Trichosurus vulpecula*, known to the Noongar people as Coomal, spotted in John Oldham Park and five birds of national significance including the distinctive Forest Red-tailed Black Cockatoo, *Calyptorhynchus banksii naso*, known to the Noongar people as Karrak.

Sustainability Risk Management

A Risk Assessment Project was completed that considered the impact of hazards on the City's environment and other factors. The project covered five priority hazards as identified by the Risk Management Group drawn from members of the City of Perth Local Emergency Management Committee: Earthquake, bushfire, storm, flood and human epidemic. The impacts of these five hazards or sources of risk were assessed across five impact sustainability related categories of: people, economy, environment, public administration and social setting. The outcomes (risk statements) will be now be assessed and determinations made on how each risk should be treated. This process will form a platform for continued improvement in the management of risks by the City.

Natural Area Management

The City hosted two community based clean up events, two corporate based clean up events and one school planting event. Ten thousand native plants were installed to create habitat and 20 microbat nesting boxes were installed as part of the Green Army Program. Surface water and sediment quality monitoring has been implemented for all surface water bodies; as well as the continued delivery of the soil and tissue nutrient analysis programme. Four hundred linear metres of riverbank remediation was undertaken. The growth of sedge plants in gabions (wire cages filled with rocks) was trialled at Point Fraser Reserve with the results demonstrating no significant difference in success rates for different plant species. The City is also concluding Part One of the Point Fraser dye tracer study which tracks the flow of water through the wetland to assess hydraulic efficiency and dispersion.



Climate Response

Urban Forest Plan

The Urban Forest Plan received the award for best Leisure and Open Space Planning initiative for its planning excellence and the vital community benefits it delivers. The accolade is the second recognition the Urban Forest Plan has received, after recently winning a Good Design Selection Award from prestigious organisation Good Design Australia. The Urban Forest Plan is a strategic action plan for integrated management of the City's urban forest. It recognises and values the urban forest as an important asset and a key element of infrastructure capable of delivering a range of benefits; community physical and mental well-being, overall liveability, landscape character, biodiversity and climate resilience of our city.

An Urban Forest Addendum Report was completed in April 2017 addressing street and parkland trees in the newly acquired Crawley/ Nedlands area. The Urban Forest Plan also received an AILA WA Landscape Architecture Award."



Energy Resilience

Lighting

Lighting is a major consumer of energy in the city with the interior lighting of commercial buildings accounting for 35% of greenhouse gas emissions. While street lighting is less than 1% of citywide total greenhouse emissions, it is a significant component of the City's corporate emissions (21%). The Lighting Master Plan and Good Lighting Practice Guide will provide the vision and guidelines to ensure future projects align with the objectives of the Lighting and Environment Strategies.

City of Perth Car Parks

Electric vehicle charging facilities are available at 12 City of Perth car parks, three of which have dedicated electric vehicle charging bays: Elder St, Pier St and Convention Centre. These facilities have 15 amp outlets and are suitable for most Australian electric vehicles and, besides the parking fee, charging is free.

The City has continued to make sustainable improvements in the operation of its car parks, including the upgrade of Carbon Monoxide Monitoring and Mechanical Ventilation systems. A solar grid power supply has continued to support the Elder Street car park with an output of 27,040 kWh per year and CO₂ emissions savings of 24,218 kg per. A parking bay location indicator system at the Perth Convention and Exhibition Centre has continued to reduce emissions through efficient car movement within the car park. Improvements have also been made to wind turbine and solar powered lighting of carparks.



Water Sensitive City

Waterwise Office Program

Showing commitment to a sustainable future, the City of Perth has earned Gold Recognition as a Waterwise Council in May 2017. Recognised by the Water Corporation and the Department of Water, the City of Perth was awarded for its efforts to implement seven water efficient actions in the previous financial year, over and above the requirements for participating councils. The City was successful in receiving a Waterwise Council grant for 2016/17 to support an investigation into alternative water sources for irrigation within the City.

Water Sensitive Transition

The City of Perth completed a Water Sensitive Transition Study in 2016/17 which identified opportunities to transition the City to an urban hydrological cycle. Under a Memorandum of Understanding with the Cooperative Research Centre for Water Sensitive Cities, the City completed the Water Sensitive City Indexing project and identified areas for improvement. In 2017/18 The City will use this information to develop priority areas and initiatives.

Alternative Water Sources for Irrigation Purposes

The City engaged consultants to deliver a feasibility study to analyse and compare a range of alternative water sources for irrigation of public open space. The report includes recommendations for demand management and efficiency options in the short term, in addition to long term options for supplementary water sources. A comprehensive review of all available water sources was carried out, with options ranked according to water availability, regulatory support, environmental benefits, storage requirements, and financial implications.



Waste Conscious City

Switch Your Thinking

The City of Perth and Switch Your Thinking have continued to roll out the national Responsible Cafes program. Participation of cafes within the City of Perth has grown from 2 to 15 cafes in the last 6 months! Following the War On Waste TV series, interest in this program has heightened and the City is continuing to promote Responsible Cafes on their website and participating cafes on social media.

Organic Recycling Bin Collection Services

In May 2017, the City of Perth introduced an organic recycling bin collection service. This service collects food waste, including off-cuts, peels, bones, shells, and other organic type waste, from commercial premises in the City such as restaurants and cafes. The waste is then taken to the Richgro facility in Jandakot, where it is fed into an industrial digester. The methane produced by the bacteria drives Richgro's electricity producing turbine, which feeds electricity back into the grid. Once it's gone through this +/- 30 day cycle, the waste is then sterilised to kill any pathogens, and turned into compost. In just seven collection days, 14.56t of the City's organic waste is diverted from landfill by utilising this process.
