



2016-17 Annual Sustainability Report



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Executive Summary

An environmentally sustainable city – a key strategic objective

The Council Plan 2017-21 identifies sustainability and the environment as a high priority for the City of Greater Dandenong. Two of its six key strategic objectives reflect this commitment and the views of the local community – ‘A healthy, liveable and sustainable city’ and ‘A city planned for the future’.

Guiding Council’s approach to achieving this is the Greater Dandenong Sustainability Strategy 2016-30 (the Strategy) and its vision:

By 2030 the City of Greater Dandenong is one of the most sustainable cities in Australia.

Delivering on this vision will have ongoing benefits for the environment, as well as the health and wellbeing of residents and businesses. Council has the ability to realise this vision by implementing key projects and programs, within its own control, but it cannot do it alone.

Working in collaboration with the community, stakeholders and key partners is essential, and we need everyone to act.

The Strategy provides the strategic framework to achieve this vision, by informing decisions, helping to shape plans and activities undertaken across the municipality and region.

Achieving this vision will not occur overnight, but the implementation of many of the Strategy’s identified key priorities and future key strategic actions are already underway and progress is being made.

Council’s efforts are increasingly being recognised, with Greater Dandenong City Council recently winning four awards at the 2017 Keep Victoria Beautiful Sustainable City Awards, including the Sustainable Council Award.

Reporting Our Progress

The Annual Sustainability Reporting is a transparent management reporting tool to both monitor our progress towards the strategy’s goals and objectives, as well as inform our policies and practices that guide our activities.

This report focusses on the strategy’s 10 themes and associated goals, objectives and targets.

Where council has direct operational control, corporate objectives and targets were identified. For those areas outside of Council’s direct control, community objectives and aspirational targets were identified where Council can support the community.

Performance Indicators are provided for each objective. These provide a summary snapshot of our progress towards the 2020 targets, based on:

Performance Indicator Against 2020 Target			No.s
Exceeds Target	Currently exceeding Target		3
On Target	On track to meet Target		50
Off Target	Measures in place - not on track to meet Target		21
Action Required	Action required - not on track to meet Target		0
Not Available	Status not available due to limited data		8

1. Biodiversity & Open Space

Our understanding of biodiversity within the municipality is limited. While larger patches of remnant vegetation within Council reserves have been assessed in detail, there is still further work required, particularly on private land holdings, including the Green Wedge area.

While open space across the municipality has been increasing, it is not keeping up with a growing population, particularly in established areas where access to open space is limited for residents.

Council’s Parks Team continues to undertake a wide range of activities to increase the community’s awareness on the value and benefits of our Biodiversity and Open Space.

The table to the right provides an indication on how Council is tracking against the Objectives in the Biodiversity and Open Space Theme.

Corporate Objectives

BO – 1.1 Ecological Value

BO – 1.2 Open Space

BO – 1.3 Vegetation

Performance Indicator



Community Objectives

BO – 2.1 Ecological Value

NOT AVAILABLE

BO – 2.2 Open Space



BO – 2.3 Green Wedge



BO – 2.4 Planning



BO – 2.5 Awareness





2. Water & Stormwater

Drought and increasing water charges have led to a reduction in the community's use of mains water in recent years. Despite Council's significant efforts to reduce mains water, such as the use of grass species that need less water, the irrigation needs of Council's sports fields still fluctuates with yearly rainfall levels. While Council has acted to increase alternative water sources to reduce its mains water use, further action is required.

While stormwater management has primarily focussed on flood management, there is an increasing focus on stormwater quality. While Council's objective is to achieve best practice across its assets, there is currently limited data available to monitor Council's performance with regard to these stormwater targets.

Council will continue a range of activities to increase the community's awareness on the management of Water and Stormwater.

The table to the right provides an indication on how Council is tracking against the Objectives in the Water and Stormwater Theme.

Corporate Objectives	Performance Indicator
WS- 1.1 Mains Water	
WS - 1.2 Stormwater	NOT AVAILABLE
WS - 1.3 Alternative Water	NOT AVAILABLE
Community Objectives	Performance Indicator
WS - 2.1 Mains Water	
WS - 2.2 Stormwater	NOT AVAILABLE
WS - 2.3 Planning	
WS - 2.4 Awareness	

3. Waste & Resources

Measures recently put in place see Council on track to reduce waste to landfill and increase recycling from its offices. While Council has in place measures to improve resource efficiency and sustainable procurement, further action is required.

Implementation of Council's 2015-20 Waste and Litter Strategy's annual Action Plan and annual Waste Education Plan provides an ongoing focus on effective waste and litter management systems that has helped the community to reduce its waste to landfill and increase recycling rates.

Council's Waste Education and Litter Prevention officers each year undertake a wide range of activities to increase the community's awareness to reduce waste and litter as well as our unnecessary use of resources.

The table to the right provides an indication on how Council is tracking against the Objectives in the Waste and Resources Theme.

Corporate Objectives	Performance Indicator
WR - 1.1 Waste to Landfill	
WR - 1.2 Recycling and Reuse	
WR - 1.3 Resource Efficiency	
WR - 1.4 Procurement	
Community Objectives	Performance Indicator
WR - 2.1 Waste to Landfill	
WR - 2.2 Recycling and Reuse	
WR - 2.3 Litter Prevention	
WR - 2.4 Planning	
WR - 2.5 Awareness	

4. Transport & Movement

Private motor vehicles are the major mode of transport in Greater Dandenong, for both staff and the broader community.

Last year's survey of Council employee's mode of travel to work showed a small increase in both walking and the use of public transport. While still waiting for 2016 Census data, the 2011 Census indicated a reduction in the community's travel to work by active transport (walking and cycling) but an increase in their use of low carbon transport (public transport).

Council continues to work with its partners to expand the shared user path network, a baseline has been established to monitor changes in community access to public transport.

While Council undertakes activities to promote community awareness on the benefits of sustainable transport, there is further work to be done.

The table to the right provides an indication on how Council is tracking against the Objectives in the Transport and Movement Theme.

Corporate Objectives	Performance Indicator
TM - 1.1 Active Transport	
TM - 1.2 Low Carbon Transport	
TM - 1.3 Fleet	
TM - 1.4 Walking and Cycling	
Community Objectives	Performance Indicator
TM - 2.1 Active Transport	
TM - 2.2 Low Carbon Transport	
TM - 2.3 Public Transport	
TM - 2.4 Planning	
TM - 2.5 Awareness	



5. Climate & Energy

Council continues to play its part in reducing the impacts of global warming through recent actions such as the energy efficient street light program and the energy audits of 18 of its high energy using buildings. Council's uptake of renewable energy sources such as solar panels has been limited to date, but this will change with the implementation of current actions.

While available data shows community solar panel capacity has increased by 94% since 2013, changes in community greenhouse gas emissions is not known due to limited data. Council is implementing a number of new actions to reduce community emissions and improve data.

While Council promotes community awareness towards climate change and increasing resilience, there is further work to be done. The Council Plan 2017-21 outlines that a Strategy will be developed to help the city prepare for climate change.

The table to the right provides an indication on how Council is tracking against the Objectives in the Climate and Energy Theme.

Corporate Objectives	Performance Indicator
CE – 1.1 Carbon Emissions	
CE – 1.2 Energy Efficiency	
CE – 1.3 Low Carbon Energy	
CE – 1.4 Climate Change	
Community Objectives	Performance Indicator
CE – 2.1 Carbon Emissions	NOT AVAILABLE
CE – 2.2 Energy Efficiency	
CE – 2.3 Renewable Energy	
CE – 2.4 Planning	
CE – 2.5 Awareness	

6. Buildings & Places

While energy use across Council's buildings and facilities has reduced, energy and water charges have increased. To reduce costs and increase the Environmentally Sustainable Design (ESD) outcomes for all Council buildings, a draft Sustainable Buildings Policy has been developed.

Council is strengthening its existing measures in the planning system to improve the sustainability outcomes of new development projects. In addition it is also looking at opportunities to help reduce energy and water usage from existing buildings through new programs such as the introduction of Environmental Upgrade Agreements.

Council's increased focus on improving the walkability and sense of place of the local activity centres is benefitting our local community.

The table to the right provides an indication on how Council is tracking against the Objectives in the Buildings and Places Theme.

Corporate Objectives	Performance Indicator
BP – 1.1 Existing Buildings	
BP – 1.2 New Buildings	
BP – 1.3 Economic Performance	
Community Objectives	Performance Indicator
BP – 1.1 Existing Buildings	
BP – 2.2 Places	
BP – 2.3 Walkability	
BP – 2.3 Planning	
BP – 2.5 Awareness	

7. Environmental Pollution

Data relevant to pollution within the municipality is currently limited. This applies to both data from Council as well as other government agencies.

To manage pollution risks across Council's operations, its contractors and subcontractors are required to have a compliant Environmental Management System and /or Plan in place for works conducted in the municipality.

Council's improvements to its customer request system will provide greater insight into the pollution issues across the municipality that Council responds to and associated outcomes.

Council's programs to increase awareness and reduce pollution are increasingly being recognised by both the community and other stakeholders.

The table to the right provides an indication on how Council is tracking against the Objectives in the Environmental Pollution Theme.

Corporate Objectives	Performance Indicator
EP – 1.1 Land Pollution	
EP – 1.2 Water Pollution	
EP – 1.3 Air Pollution	
Community Objectives	Performance Indicator
EP – 2.1 Land Pollution	
EP – 2.2 Water Pollution	
EP – 2.3 Air Pollution	
EP – 2.4 Planning	
EP – 2.5 Awareness	



8. Local & Sustainable Food

While Council is in the process of updating its existing policies to include sustainable food procurement, it has increased staff awareness towards healthy diets as well as reduced food waste from across its offices.

Council is working to increase resident's ability to produce fresh fruit and vegetables in the urban environment. This is important, given that:

- many residents are identified to have greater access to fast food outlets than fresh food outlets.
- for families on low incomes, the relative amount of income spent on a healthy food basket still indicates affordability issues.

Agriculture is an important land use within the Green Wedge, supported by Council's Green Wedge Management Plan and Regional Food Strategy.

Council undertakes a broad range of activities to promote healthy and local sustainable food options.

The table to the right provides an indication on how Council is tracking against the Objectives in the Local and Sustainable Food Theme.

Corporate Objectives	Performance Indicator
LF – 1.1 Procurement	
LF – 1.2 Food Waste	
LF – 1.3 Awareness	
Community Objectives	Performance Indicator
LF – 2.1 Urban Agriculture	
LF – 2.2 Access	
LF – 2.3 Affordability	
LF – 2.4 Green Wedge	
LF – 2.5 Planning	
LF – 2.6 Awareness	

9. Local Community & Culture

A staff survey to benchmark Council's organisational culture identified sustainability as important. While Council delivers actions to demonstrate its commitment to Corporate Social Responsibility, there are opportunities to further integrate social procurement into Council's existing policies.

Council is delivering, with its partners, a range of programs centred on issues included in the Profile of Health and Wellbeing in Greater Dandenong 2016. Issues of particular focus include Health and Wellbeing; Culture and Diversity; Crime and Safety; and Affordability.

While existing Council policies and plans include consideration of climate change impacts, the development of a specific Climate Change Strategy is intended to facilitate increased resilience.

The table to the right provides an indication on how Council is tracking against the Objectives in the Local Community and Culture Theme.

Corporate Objectives	Performance Indicator
CC – 1.1 Culture	
CC – 1.2 Social Responsibility	
Community Objectives	Performance Indicator
CC – 2.1 Health and Wellbeing	
CC – 2.2 Culture and Diversity	
CC – 2.3 Crime and Safety	
CC – 2.4 Climate Change	
CC – 2.5 Affordability	
CC – 2.6 Awareness	

10. Local Business & Economy

While Council supports its staff through professional development programs, there is limited data on training around key sustainability issues.

While Council already purchases fair trade products such as tea and coffee, it is exploring how to incorporate fair trade principles into its operations.

Council is actively working with local businesses to save them money by improving their operations to reducing energy and water use, as well encouraging manufacturers to address resource efficiency.

While Council supports local green investment by business and works with education providers, data is currently limited.

The table to the right provides an indication on how Council is tracking against the Objectives in the Local Business and Economy Theme.

Corporate Objectives	Performance Indicator
BE – 1.1 Development	
BE – 1.2 Fair Trade	
Community Objectives	Performance Indicator
BE – 2.1 Green Investment	NOT AVAILABLE
BE – 2.2 Operations	NOT AVAILABLE
BE – 2.3 Resources	
BE – 2.4 Education and Skills	NOT AVAILABLE
BE – 2.5 Awareness	



BIODIVERSITY & OPEN SPACE



Imagine a Greener City that places a value on its natural assets, protects existing levels of biodiversity and works hard to enhance biodiversity levels for the future.

OUR GOAL: A GREENER CITY

Background

Open space contributes to the liveability and sustainability of the urban environment. A high quality public realm is important for both mental and physical health with access to public open spaces increasing our wellbeing. In addition, the environment and its biodiversity provide us with the air we breathe, the water we drink and the food we eat.

Council has established open space and biodiversity objectives and targets that will improve the extent and quality of open space across the municipality, as well as protect and enhance local biodiversity, inform and engage our community on the value of our local parks, plants and wildlife, and achieve a healthier community and environment.

Corporate Objectives

Performance Indicator

BO – 1.1 Ecological Value	Habitat Score 38 per Hectare / 29.3 Ha (2013-14) Re-assessment scheduled for 2017-18	
BO – 1.2 Open Space	4.3 Ha. / 1,000 Residents (2017)	
BO – 1.3 Vegetation	Planted 2,100 trees 19,500 seedlings (2016-17)	

Community Objectives

Performance Indicator

BO – 2.1 Ecological Value	Limited Data	NOT AVAILABLE
BO – 2.2 Open Space	Good Access = 76% of Residents (2016)	
BO – 2.3 Green Wedge	Assessment scheduled for 2017-18	
BO – 2.4 Planning	20% of Development Applications (2016-17)	
BO – 2.5 Awareness	95 events and activities 4,048 attendees (2016-17)	



Corporate Objective: BO – 1.1 Ecological Value

Identify, protect and enhance the ecological value (EV) of Council land within the municipality.

2020 TARGET

Identify and protect EV of Council Land

BASELINE

Hectares (Ha) - 29.3
Av. Habitat Hectare (HHa) Score – 38
(2013)

PERFORMANCE

Re-assessment scheduled for 2017-18

OFF TARGET



Figure BO-1.1 shows the location of reserves within Greater Dandenong with significant patches of remnant native vegetation.

Council has completed mapping in eight of its reserves that contain extensive areas of remnant native vegetation.

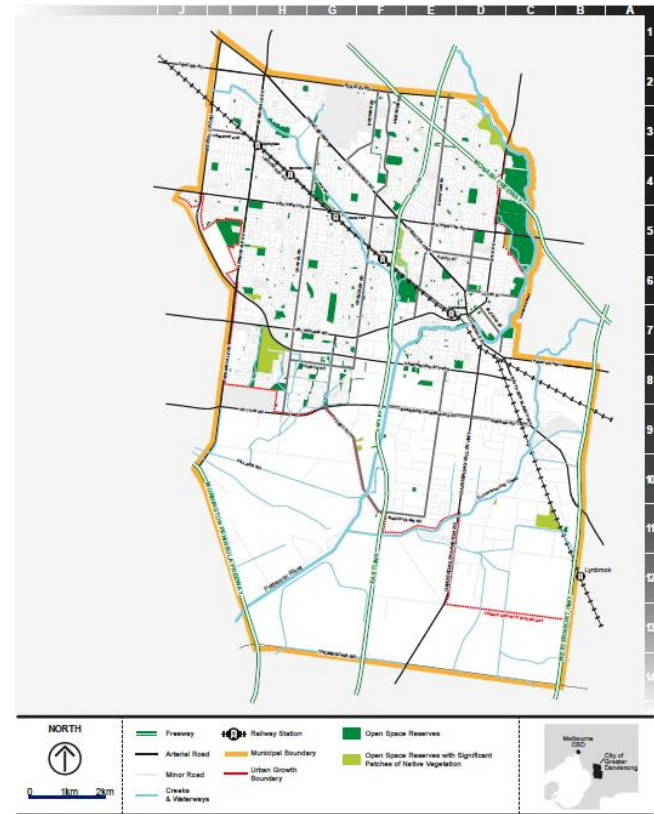
Council uses the Habitat Hectare (HHa) Score to measure and benchmark the condition of native vegetation in these reserves.

HHa score can range from 0 to 100 – with 0 HHa = no native vegetation and 100 HHa = for vegetation within a large national park

Assessments identified 29.3 Hectares (Ha) of native vegetation. Benchmarking using the HHa methodology identified scores ranging from 22 to 48 out of 100.

Figure BO – 1.1 Council Reserves with significant remnant native vegetation.

ECOLOGICAL VALUE (BO - 1.1)



Refer to <http://sustainable.greaterdandenong.com>

Highlights

Revegetation works commenced as identified in the National Drive Reserve Management Plan.

Establish 'Discover Dandenong Creek' Project - 3 year revegetation and engagement program along the creek corridor.

Current Actions

Current Actions	Status
Investigate opportunities to improve viability of billabongs within Fotheringham Reserve.	In Progress
<ul style="list-style-type: none"> 2015-18 Responsibility – Infrastructure Services & Planning 	In Progress
Update reserves Habitat Hectare Scores based on most recent assessments.	In Progress
<ul style="list-style-type: none"> 2017-18 Responsibility – Infrastructure Services & Planning 	In Progress
Investigate stormwater harvesting to increase viability of red gums within Coomoora Reserve.	In Progress
<ul style="list-style-type: none"> 2015-18 Responsibility – Infrastructure Services & Planning 	In Progress
Ongoing implementation of Reserve Management Plans.	Ongoing
<ul style="list-style-type: none"> Ongoing Responsibility – Infrastructure Services & Planning 	Ongoing
Investigate Native Vegetation Offsets for permitted clearing within reserves local biodiversity.	In Progress
<ul style="list-style-type: none"> 2016-18 Responsibility – Infrastructure Services & Planning + Planning & Design 	In Progress
Implement the 'Discover Dandenong Creek Project' including weed control and revegetation works.	In Progress
<ul style="list-style-type: none"> 2016-20 Responsibility – Infrastructure Services & Planning 	In Progress

Completed Actions

Update of management plans for Council's Fotheringham and National Drive Reserves.	✓
Weed and biodiversity mapping completed as part of the Discover Dandenong Creek Project.	✓



Corporate Objective: BO – 1.2 Open Space

Increase the quality, quantity and connectivity of open space owned by Council.

2020 TARGET

4.5 Ha per 1,000 residents

BASELINE

4.4 Ha per 1,000 residents (2009)

PERFORMANCE

4.3 Ha per 1,000 residents (2017)

OFF TARGET



Figure BO-1.2 shows the location of open space reserves owned or managed by Council. There is a total of 672 Hectares (Ha) of parks and reserves within the municipality (June 2017).

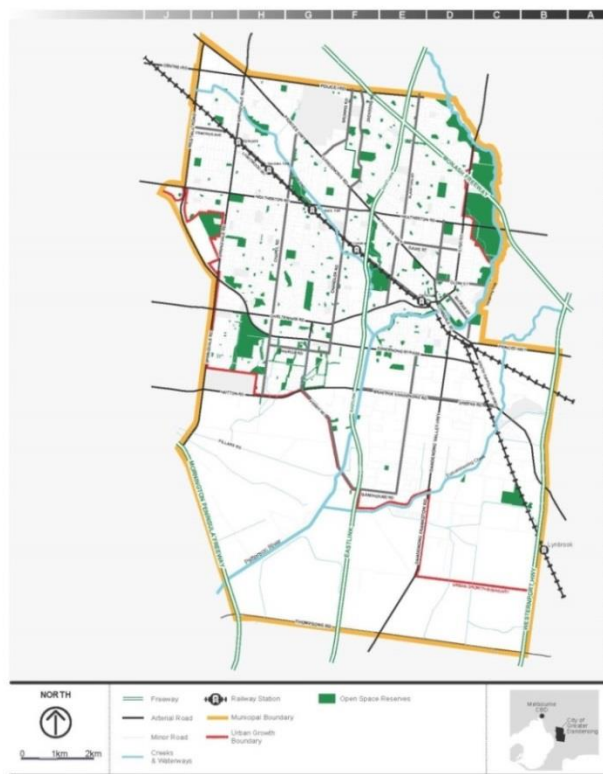
This is an increase of 92 Ha from the 580 Ha identified in the 2009 Open Space Strategy and is mainly due to the development of new residential estates in Keysborough South and Dandenong.

The population of Greater Dandenong is estimated to have increased from 130,000 in 2009 to 157,000 in 2017. As a result there has been a decrease in Ha per 1,000 residents from 4.4 Ha in 2009 to 4.3 Ha in 2017.

Council continues to implement a range of measures that aim to improve the quality and connectivity of open space reserves within the municipality.

Figure BO – 1.2 Council Open Space Reserves

OPEN SPACE (BO - 1.2)



Refer to <http://sustainable.greaterdandenong.com>

Highlights

Redevelopment of the Springvale Civic Precinct to include a new major open space.

Establishment of open space corridor as part of the Caulfield to Dandenong level crossing removal project.

Current Actions

Current Actions	Status
Implementation of Open Space and Playground Strategy to improve quality throughout municipality. <ul style="list-style-type: none"> ▪ Ongoing Responsibility – Planning & Design + City Improvement 	Ongoing
Improving park connectivity through new reserves created in residential and industrial areas. <ul style="list-style-type: none"> ▪ Ongoing Responsibility – Planning & Design 	Ongoing
Incorporation of open space requirements as part of the Springvale Civic Precinct Masterplan. <ul style="list-style-type: none"> ▪ 2016-19 Responsibility – Planning & Design + City Improvement 	In Progress
Develop the design and commence implementation of the Dandenong Park North precinct. <ul style="list-style-type: none"> ▪ 2017-18 Responsibility – Planning & Design + City Improvement 	In Progress
Review the Open Space Strategy 2009 and Action Plan 2010. <ul style="list-style-type: none"> ▪ 2017-19 Responsibility – Planning & Design 	In Progress
Work with Level Crossing Removal Authority on creation of open space corridor at Ross Reserve. <ul style="list-style-type: none"> ▪ 2016-19 Responsibility – Planning & Design 	In Progress

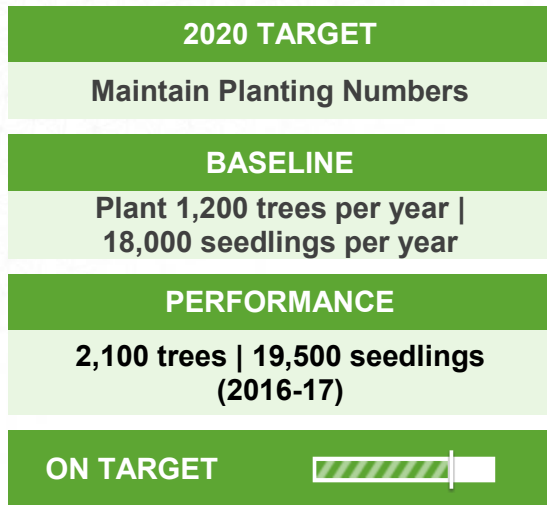
Completed Actions

Dandenong Park Northern Precinct concept design completed.	✓
Completion of two neighbourhood playgrounds: Lois Twohig Reserve and Harold Box Reserve	✓
Completion of two local playgrounds: Corio Reserve and Maralinga Reserve.	✓



Corporate Objective: BO – 1.3 Vegetation

Increase quality and quantity of vegetation cover on Council land to provide a net gain in the municipality.



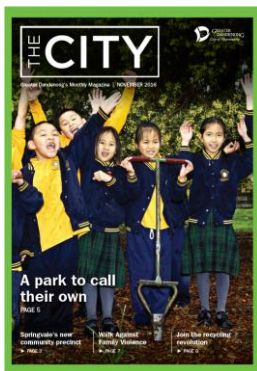
In 2016-17, Council planted 2,100 trees in streets and parks, as well as 19,500 indigenous tube stock seedlings in open space reserves and school grounds throughout Greater Dandenong.

As part of the review of the existing street tree strategy, called Leafy Legacy, Council has identified the following information:

- a total of 55,276 street trees in Greater Dandenong
- the street trees are worth approximately \$182m and provide a range of environmental benefits
- approximately 240 different tree species and cultivars
- 76% of street trees are in good health
- 90% of street trees have good structure
- 10,249 identified vacant tree planting sites within streets.

The new strategy and action plan is being finalised and is planned for adoption in 2017-18.

Figure BO – 1.3 Council Planting Numbers 2016-17



19,500 Seedlings planted in our parks and reserves

2,100 Trees planted along our streets and in our parks



Highlights

Heat Mapping undertaken for the activity centres and as part of the Leafy Legacy Review.

Revegetation along Dandenong Creek Corridor as part of Council's 'Discover Dandenong Creek' Project.

Current Actions

Current Actions	Status
Implement the 'Discover Dandenong Creek Project' including weed control and revegetation works.	In Progress
<ul style="list-style-type: none"> ▪ 2016-20 Responsibility – Infrastructure Services & Planning 	
Finalise Greater Dandenong Tree Management Strategy and Action Plan.	In progress
<ul style="list-style-type: none"> ▪ 2016-18 Responsibility – Infrastructure Services & Planning 	
Ongoing planting program of street trees across the municipality.	Ongoing
<ul style="list-style-type: none"> ▪ Ongoing Responsibility – Infrastructure Services & Planning 	
Ongoing planting program of indigenous seedlings within Council's reserves.	Ongoing
<ul style="list-style-type: none"> ▪ Ongoing Responsibility – Infrastructure Services & Planning 	
Investigate opportunities to provide Native Vegetation Offsets within Council's reserves.	In Progress
<ul style="list-style-type: none"> ▪ 2016-18 Responsibility – Infrastructure Services & Planning + Planning & Design 	

Completed Actions

Street Tree inventory completed on status of existing street trees as part of Leafy Legacy Strategy.	✓
Weed and biodiversity mapping completed as part of the Discover Dandenong Creek Project.	✓



Community Objective: BO – 2.1 Ecological Value

Identify, protect and enhance the ecological value of land throughout the municipality.

2020 TARGET

Identify and Protect EV of Land in Greater Dandenong

BASELINE

State Government Mapping (2005)

PERFORMANCE

Limited Date

NOT AVAILABLE

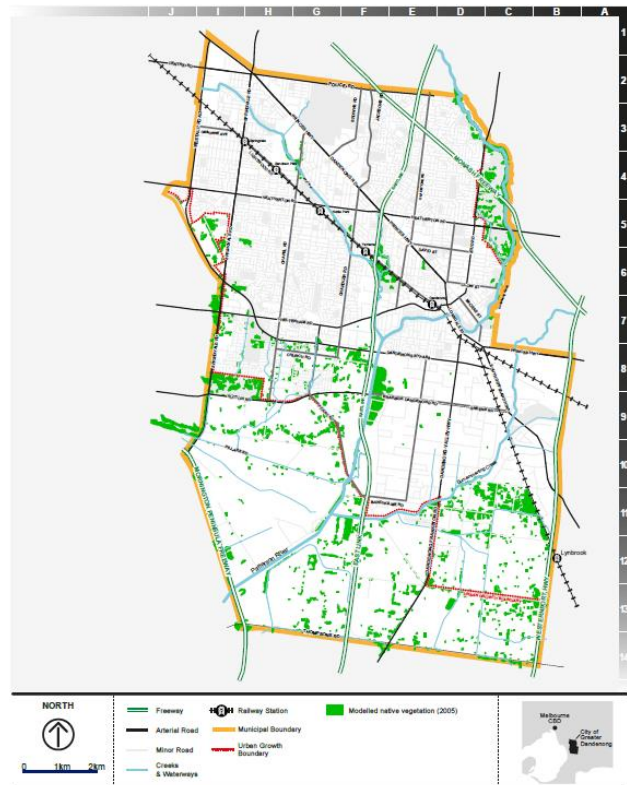
While remnant vegetation within reserves owned by Council has been assessed, there is limited information available on the status and location of native vegetation across the municipality.

The extent of native vegetation across the municipality (Figure BO-2.1) is reliant on mapping conducted by the Victorian Government using GIS modelling. These maps have limitations, with site visits required to conduct accurate assessments on the ecological value.

Recent changes to Victoria's native vegetation clearing regulations have reduced the need for detailed site assessments as part of a planning application. This limits the ability of Council to protect areas of native vegetation through the planning system.

Figure BO – 2.1 Native Vegetation (2005 data)

ECOLOGICAL VALUE (BO - 2.1)



Refer to <http://sustainable.greaterdandenong.com>

Highlights

Development of the Green Wedge Management Plan (GWMP) - Revised in January 2017

Approval of Green Wedge Policy Changes (Planning Scheme Amendment C143) by the Minister for Planning.

Collaboration with Parks Victoria, Melbourne Water and Knox City Council on 'Discover Dandenong Creek' Project.

Current Actions

Assessment of planning applications for removal of native vegetation using state guidelines.

- **Ongoing | Responsibility – Planning & Design**

Ongoing

Implementation of GWMP actions to protect and enhance the Green Wedge's ecological value.

- **Ongoing | Responsibility – Plan. & Design + Infrastructure Services & Planning**

Ongoing

Education programs to increase community awareness on the importance of local biodiversity.

- **Ongoing | Responsibility – Infrastructure Services & Planning**

Ongoing

Ongoing implementation of Council's street tree and indigenous seedling planting program.

- **Ongoing | Responsibility – Infrastructure Services & Planning**

Ongoing

Ongoing implementation of Council's environmental education programs for the community.

- **Ongoing | Responsibility – Infrastructure Services & Planning**

Ongoing

Implement 'Discover Dandenong Creek Project' including weed control and revegetation works.

- **2016-20 | Responsibility – Infrastructure Services & Planning**

In Progress

Completed Actions

Weed and biodiversity mapping along Dandenong Creek Corridor as part of Discover Dandenong Project. ✓

Drafted exhibited interim vegetation protection planning overlay for municipality's Green Wedge area ✓



Community Objective: BO – 2.2 Open Space

Support the increase in community access to open space through the Open Space Provision Goals.

2020 TARGET
Increase % of Residents within 500m of open space
BASELINE
Good Access = 76% of Residents (2016)
PERFORMANCE
Good Access = 76% of Residents (2016)
ON TARGET

Figure BO – 2.2 Residential Proximity to Open Space

OPEN SPACE (BO - 2.2)

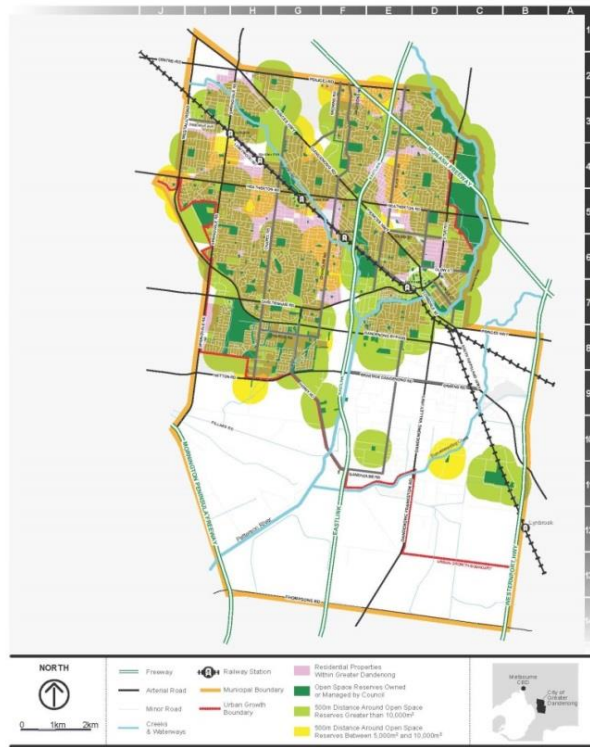


Figure BO – 2.2 shows that:

- 76%** of residential properties have good access to open space (located within 500m of a reserve greater than 10,000m²).
- 13%** of residential properties have limited access to open space (located within 500m of a reserve between 5,000m² and 10,000m²).
- 11%** of residential properties have poor access to open space (not located within 500m of a reserve 5,000m² or greater).

Refer to <http://sustainable.greaterdandenong.com>

Highlights

Improved access to open space in Noble Park as part of the Caulfield to Dandenong level crossing removal project. Adoption of the Springvale Activity Centre Structure Plan 2017 which includes stronger open space provisions.

Current Actions

Current Actions	Status
Implementation of policies such as the Open Space Strategy, to improve access to open space. <ul style="list-style-type: none"> ▪ Ongoing Responsibility – Planning & Design + City Improvement 	Ongoing
Collaborate with Level Crossing Removal Authority on open space corridor at Ross Reserve. <ul style="list-style-type: none"> ▪ 2016-19 Responsibility – Planning & Design 	In Progress
Review Open Space Strategy 2009 and Action Plan including open space acquisition policy. <ul style="list-style-type: none"> ▪ 2016-18 Responsibility – Planning & Design 	In Progress
Develop master plans for Parkfield, Warner, Wachter and Burden Park Reserves. <ul style="list-style-type: none"> ▪ 2017-19 Responsibility – Planning & Design 	In Progress
The redevelopment of the Springvale Civic Site to provide a new major open space area. <ul style="list-style-type: none"> ▪ 2017-19 Responsibility – Planning & Design 	In Progress
The review of the Noble Park Structure Plan to support improved connected public open spaces. <ul style="list-style-type: none"> ▪ 2017-19 Responsibility – Planning & Design 	In Progress

Completed Actions

Completion of Draft Springvale Activity Structure Plan. ✓



Community Objective: BO – 2.3 Green Wedge

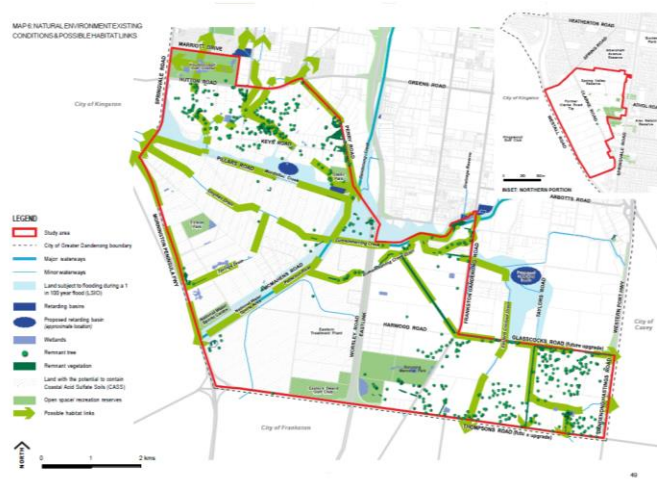
Work with key stakeholders to protect and enhance the ecological value of the Green Wedge area.

2020 TARGET
Complete Flora and Fauna Assessment for GWMP
BASELINE
Green Wedge Management Plan
PERFORMANCE
Assessment Scheduled for 2017-18
ON TARGET

The Green Wedge in the City of Greater Dandenong is part of the broader 'South East Green Wedge' that extends from the City of Kingston through to the City of Casey. Council's Green Wedge is protected by the Urban Growth Boundary and covers 3,741.3 hectares or 29 per cent of the municipality.

While the Green Wedge's current ecological values are limited, there are many important features, such as River Red Gum trees and sections of remnant vegetation. Greater Dandenong's Green Wedge Management Plan (GWMP) provides a 20 year vision for the Green Wedge, as well as key objectives and actions to guide implementation.

Figure BO – 2.3 Environmental Features in Greater Dandenong's Green Wedge Area



Source: Greater Dandenong Green Wedge Management Plan (Revised January 2017). Refer to <http://sustainable.greaterdandenong.com>

Highlights

- Adoption of the Green Wedge Management Plan (Revised January 2017) and associated Action Plan.
- Approval of Green Wedge Policy Changes (Planning Scheme Amendment C143) by the Minister for Planning.
- Introduction of interim Vegetation Protection Overlay for the Green Wedge.

Current Actions

Continue to support ongoing community participation in major environmental programs.

- **Ongoing | Responsibility – Responsible Business Units**

Status

Ongoing

Undertake flora and fauna assessment in the Green Wedge to inform development of permanent vegetation protection overlay to protect native vegetation in the area.

- **2016-18 | Responsibility – Planning & Design**

In Progress

Completed Actions

Preparation, exhibition and approval of Planning Scheme Amendment C143 for the Green Wedge. ✓

Adoption of 2014 Green Wedge Management Plan and associated Action Plan. ✓

Drafted exhibited interim vegetation protection planning overlay. ✓

Drafted exhibited general strengthening of policy position for environment in the Green Wedge. ✓

Development of Green Wedge Environmental Fact Sheet. ✓



Community Objective: BO – 2.4 Planning

New development within Greater Dandenong to address open space and biodiversity issues, where appropriate.

2020 TARGET

50% of Development Applications

BASELINE

25% of Development Applications (2013-14)

PERFORMANCE

20% of Development Applications (2016-17)

OFF TARGET



The protection of native vegetation is a key component of Council's planning approach to address open space and biodiversity issues.

Significant environment, social and financial value can be gained by maintaining and increasing the health of our local urban ecosystem.

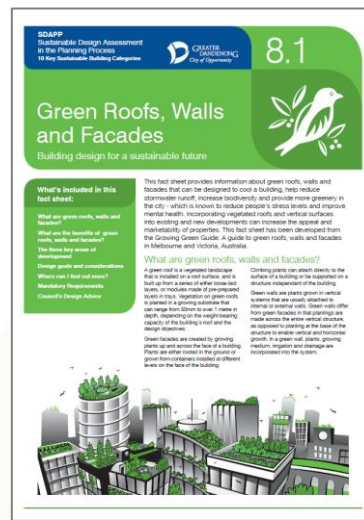
Council uses the Sustainable Design Assessment in the Planning Process (SDAPP) and Built Environment Sustainability Scorecard (BESS) to assess the sustainability of planning applications.

In 2016-17 Council assessed the Environmentally Sustainable Design (ESD) credentials of 67 new development applications. This equals 20% of all new development applications and 60% of new development applications that meet the SDAPP trigger levels in Greater Dandenong.

To help address these issues Council uses the SDAPP Fact Sheets – see Figure BO-2.4:

- Urban Ecology
- Green Roofs, Walls and Facades.

Figure BO – 2.4 Urban Ecology and Green Roofs SDAPP Fact Sheets



Highlights

Implementation of the Built Environment Sustainability Scorecard (BESS) online tool for planning applications.

Current Actions

Assessment of native vegetation through planning applications.

- **Ongoing | Responsibility – Planning & Design + Infrastructure Services & Plan.**

Status

Ongoing

Preparation of Local ESD Planning Policy for the Greater Dandenong Planning Scheme.

- **2016-18 | Responsibility – Planning & Design**

In Progress

Use the SDAPP framework and BESS assessment tool to assess planning applications.

- **Ongoing | Responsibility – Planning & Design**

Ongoing

Completed Actions

Development and launch of SDAPP Fact Sheets for Greater Dandenong.



Training of Council Planning Staff on the SDAPP process and BESS tool.





Community Objective: BO – 2.5 Awareness

Engage community, residents and businesses to increase their awareness on the value of parks, plants and wildlife.



Council undertakes a wide range of activities each year to increase the community's awareness of our local parks, plants, wildlife and environmental issues to help facilitate more informed and responsible decisions.

Information is provided to the community each year through a variety of forums, including:

- Council's website, newsletters and other publications
- Council's Parks Team provides a range of hands-on events and activities.
- Videos shown on the large screen in the Dandenong Civic Plaza.

Figure BO – 2.5 Environmental Education – Events and Planting Days

Educational Events



75 Activities | 2930 Attendees

Planting Days



30 Events | 1,118 Attendees

Highlights

Hosting 2017 World Wetland Day activities at Tirhatuan Park.

Launch of Adopt-a-Park program with local kindergartens throughout Greater Dandenong.

'Habitat, Hollows and Nesting Box' program with Dandenong West Primary School in Fotheringham Reserve.

Kids-Teaching-Kids Program in local primary schools with Melbourne Water and the Dolphin Research Institute.

Current Actions

Ongoing implementation of community environmental educational program.

- **Ongoing | Responsibility – Infrastructure Services & Planning**

Ongoing

Installation of interpretative signage across key Council Reserves.

- **Ongoing | Responsibility – Infrastructure Services & Planning + City Improvement**

Ongoing

Hosting Natureplay for Early Learning every Tuesday in Alex Wilkie Nature Reserve.

- **Ongoing | Responsibility – Infrastructure Services & Planning**

Ongoing

Completed Actions

Ongoing implementation of environmental educational program for the community by Council. ✓

Running activities at community events in 2016-17 such as the Dandenong Show and NAIDOC Week. ✓

Development of information maps for open space reserves in Greater Dandenong on Council's website. ✓

Ongoing implementation of community and school planting days through Greater Dandenong. ✓

Development of interpretative signage for National Drive, Coomoora, Woodland and Falkiner Reserves. ✓



WATER & STORMWATER



Imagine a city where water is managed efficiently and effectively to: provide a secure source of clean drinking water; reduced flood risk and damage; healthy waterways; as well as support healthy local parks and environments.

OUR GOAL: A WATER SENSITIVE CITY

Background

Industry's traditional approach to water management has been to manage water supply, reuse and stormwater separately. Recent droughts and floods have led to a rethink of these water management practices and the adoption of a more integrated approach to the management of water resources.

Council has established integrated water and stormwater objectives and targets that will help protect and enhance waterways, help reduce impacts of stormwater, pollution and runoff, and reduce mains water consumption.

Corporate Objectives

Performance Indicator

WS – 1.1 Mains Water	52% Reduction (2016-17)	
WS – 1.2 Stormwater	Limited Data	NOT AVAILABLE
WS – 1.3 Alternative Water	Limited Data	NOT AVAILABLE

Community Objectives

Performance Indicator

WS – 2.1 Mains Water	23% reduction households 27% reduction businesses (2016-17)	
WS – 2.2 Stormwater	Limited Data	NOT AVAILABLE
WS – 2.3 Planning	20% of Development Applications (2016-17)	
WS – 2.4 Awareness	Existing Programs	



Corporate Objective: WS – 1.1 Mains Water

Where appropriate, reduce Council's corporate mains water consumption.

2020 TARGET
Reduce Mains Water use by 50%
BASELINE
394 ML (1999-2000)
PERFORMANCE
52% Reduction (2016-17)
ON TARGET

Council's water costs have increased significantly over the last six years. This is a direct result of the increased water charges announced by the Victorian Government to secure Melbourne's water supplies through large infrastructure projects such as the desalination plant

That being said Figure WS-1.1a shows that in 2016-17 Council used 187ML of mains water at a cost of \$725,500 – which:

- Is a 56ML less than the 243ML in 2015-16
- Is \$181,000 less than the \$907,000 in 2015-16

Figure WS-1.1b show that there is a direct correlation between annual rainfall and water use – i.e. years of higher rainfall have reduced irrigation requirements.

Breakdown of mains water use across Council operations in 2016-17 highlights:

- Sports fields used 103ML – 46% less than 2015-16
- Leisure centres used 53ML – 2% more than 2015-16
- Other buildings used 29ML – 29% less than 2015-16

Figure WS – 1.1a Mains Water Consumption

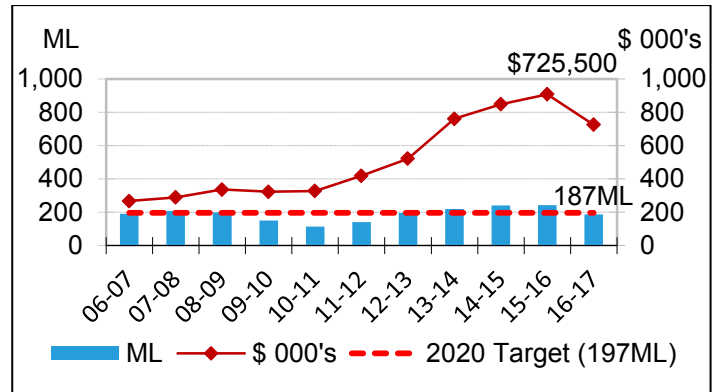
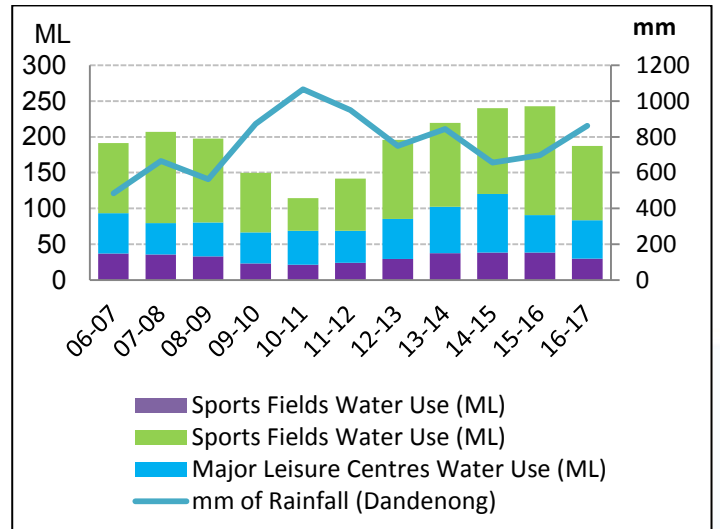


Figure WS – 1.1b Rainfall and Mains Water Consumption



Highlights

- Installation of drought resistant grass species at all Council sports fields that reduce irrigation needs by up to 70%.
- Installation of a 700KL rainwater tank in the new Noble Park Aquatic Centre (NPAC).
- Installation of smart water meters to monitor water use and detect leakages, resulting in significant cost savings.

Current Actions

Current Actions	Status
Seek funding opportunities to commence Coomoora Reserve stormwater harvesting project. ▪ Subject to funding Responsibility – Infrac. Services Planning + City Improvement	In Progress
Develop a Sustainable Buildings Policy for design and construction of Council buildings. ▪ 2016-18 Responsibility – Planning & Design + City Improvement	In Progress
Springvale Civic Centre to use Green Star Design and As-Built Standard. ▪ 2016-18 Responsibility – City Improvement	In Progress
Complete Tatterson Park Stormwater Harvesting Project. ▪ Subject to Funding Responsibility – Infrac. Services Planning + City Improvement	In Progress
Implement recommendations in 2014 Integrated Water Management Background Report. ▪ Ongoing Responsibility – Planning & Design + Infrastructure Services & Planning	Ongoing
Monitor and report on Council's water usage and bills. ▪ Ongoing Responsibility – People & Procurement + Infrastructure Services & Planning	Ongoing

Completed Actions

Design for Coomoora Reserve Stormwater Harvesting Project completed. ✓



Corporate Objective: WS – 1.2 Stormwater

Where possible, minimise the impact of stormwater runoff and pollution.

2020 TARGET
Increase No. Best Practice Projects
BASELINE
Establish Baseline
PERFORMANCE
Limited Data
NOT AVAILABLE

Council has committed to a best practice asset management framework that will ensure its assets meet the needs of the community and the environment. Stormwater related initiatives include:

- Asset Management Policy – include an objective to achieve a Best Appropriate Practice in Asset Management.
- Draft Sustainable Stormwater Strategy – provides the strategic framework, policy direction and legislative requirements for the long-term management of Council's assets.

The total number of projects delivered by Council that meet 'Best practice stormwater management' is currently not able to be determined due to limited data. As a result, Council's performance against the target is currently not available. As a result, Council will focus on establishing a baseline and method to track Council's performance.

Figure WS – 1.2 Examples of Council's best practice approach to stormwater management



Water Sensitive Urban Design (WSUD) included as part of Revitalising Central Dandenong, such as in Halpin Way and Lonsdale Street.



A stormwater harvesting project for Tatterson Park has commenced.



The Noble Park Aquatic Centre includes a 700,000 litre rainwater tank and use of grey water.

Highlights

Active participation in CRC – Water Sensitive Cities Research Program to facilitate best practice water management.

Current Actions

Current Actions	Status
Seek adoption of the Draft Sustainable Stormwater Strategy. <ul style="list-style-type: none"> ▪ 2017-18 Responsibility – Infrastructure Services & Planning 	In Progress
Seek adoption of the Draft Sustainable Buildings Policy. <ul style="list-style-type: none"> ▪ 2017-18 Responsibility – Infrastructure Services & Planning + Planning & Design 	In Progress
Analyse results of Council's GPT audit. <ul style="list-style-type: none"> ▪ 2017-18 Responsibility – Infrastructure Services & Planning 	In Progress
Develop long term strategic plans to achieve integrated water management outcomes. <ul style="list-style-type: none"> ▪ Ongoing Responsibility – Infrastructure Services & Planning 	Ongoing
Monitor pollutant levels in stormwater entering Council's retarding basins. <ul style="list-style-type: none"> ▪ 2017-18 Responsibility – Planning & Design + Regulatory Services 	In Progress
Seek funding for the Coomoora Reserve and Tatterson Park Stormwater harvesting projects. <ul style="list-style-type: none"> ▪ Subject to funding Responsibility – Infrastructure Services & Planning 	In Progress
Establish the baseline of Council's Best Practice Stormwater projects. <ul style="list-style-type: none"> ▪ 2017-18 Responsibility – Planning & Design + City Improvement 	In Progress
Ongoing collaboration with CRC- Water Sensitive Cities, Melbourne Water and DELWP. <ul style="list-style-type: none"> ▪ Ongoing Responsibility – Infrastructure Services & Planning + Planning & Design 	Ongoing

Completed Actions

Public exhibition of the Draft Sustainable Stormwater Strategy undertaken to enable its finalisation.	✓
Design completed for Coomoora Reserve Stormwater Harvesting Project.	✓
Investigate feasibility of stormwater harvesting for irrigation of open space reserves.	✓
Audit of Gross Pollutant Traps (GPTs) installed across Council's stormwater drainage network.	✓



Corporate Objective: WS – 1.3 Alternative Water

Where appropriate, increase the supply and use of alternative water sources.

2020 TARGET
Replace 10% of Mains Water
BASELINE
Establish Baseline
PERFORMANCE
Limited Data
NOT AVAILABLE

Council's use of alternative water sources to reduce its use and reliance on water suitable for drinking include:

- **Rainwater Harvesting** - Rainwater tanks are installed across a range of Council facilities to provide water for the irrigation of garden beds, street trees, lawn areas and the flushing of toilets.
- **Stormwater Harvesting** – Council is harvesting stormwater runoff to irrigate street landscaping, and has commenced projects to harvest stormwater for irrigation of playing fields.

The volume of water used by Council from alternative sources is currently not able to be determined. As a result, Council will focus on establishing a baseline and method to track Council's performance.

Figure WS – 1.3 Alternative Water Sources: Examples of Council projects

Tree pits installed in Central Dandenong have been designed to harvest stormwater runoff to irrigate the street trees.



The Tatterson Park Stormwater harvesting project, when completed, will provide up to 20ML of water each year to irrigate the surrounding sports fields, as well as improve the local amenity and wildlife habitat.

Highlights

Stormwater drainage at sites such as Lonsdale Street and Halpin Way in Central Dandenong has been designed to collect and use stormwater runoff to irrigate the landscaping and improve water quality.

The design for the Coomoora Reserve Stormwater Harvesting project has been completed.

Tatterson Park Stormwater Project has commenced, and once completed, will provide up to 20ML of water a year.

Current Actions

Current Actions	Status
Seek funding opportunities to commence implementation of Coomoora Reserve stormwater harvesting project.	In Progress
▪ Subject to Funding Responsibility – Infrastructure Services & Planning	
Consider opportunities to monitor Council's use of alternative water sources to establish a baseline.	In Progress
▪ 2017-18 Responsibility – Planning & Design + City Improvement	
Complete Tatterson Park Stormwater Harvesting Project.	In Progress
▪ Subject to Funding Responsibility – Infras. Services & Planning + City Improvement	
Adoption of Draft Sustainable Buildings Policy for the design and construction of Council buildings.	In Progress
▪ 2016-18 Responsibility – Planning & Design + City Improvement	
Investigate opportunities for water systems that provide alternate water and flood mitigation.	In Progress
▪ 2016-18 Responsibility – Infrastructure Services & Planning	

Completed Actions

Completed Actions	Status
Investigate feasibility of stormwater harvesting for irrigation of ten of Council's open space reserves.	✓
Preparation of draft Sustainable Buildings Policy for Council owned and managed buildings.	✓
The design for the Coomoora Reserve Stormwater Harvesting project has been completed.	✓



Community Objective: WS – 2.1 Mains Water

With the support of key partners, help the community, both residents and businesses, reduce mains water consumption.

2020 TARGET

Aspire for a 10% Reduction

BASELINE (2007-08)

432 litres / day / household |
1863 litres / day / business

PERFORMANCE (2015-16)

23% reduction households |
27% reduction business

EXCEEDS
TARGET



On average, residents, businesses and public agencies across Greater Dandenong are consuming over 13 Giga-litres of mains potable water each year. Key performance results:

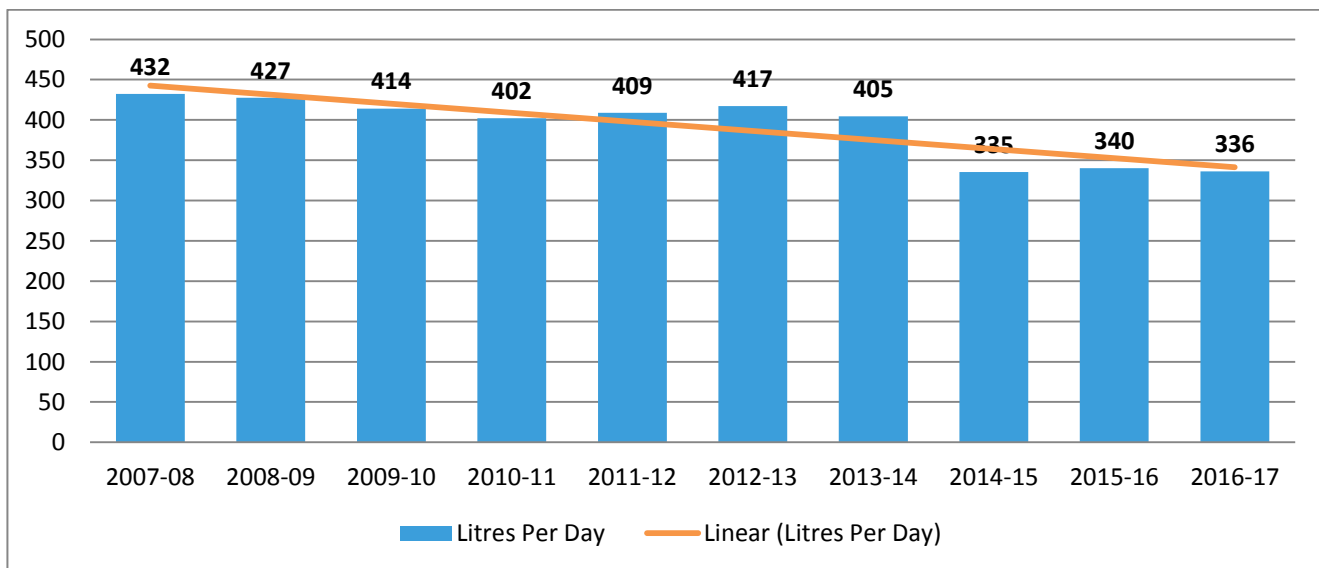
- 336 litres / day / household (2016-17)
- 1366 litres / day / business (2016-17)

The trend, from 2007-08 to 2016-17, shows a reduction in mains water use across Greater Dandenong.

While the average businesses water use is greater than that of average the household, the total breakdown for mains potable water use in Greater Dandenong:

- Residential demand accounts for 62 per cent
- Non-residential demand accounts for 38 per cent.

Figure WS – 2.1 Average Household Mains Water Use – Greater Dandenong



Litres per household per day – Greater Dandenong*

Source: Data provided by SE Water. *Please Note: Since 2014, SE Water has changed the parameters of the data provided to Council.

Current Actions

Facilitate the reduction of community mains potable water use through the planning system.

- [Ongoing | Responsibility – Planning & Design](#)

Status

Ongoing

Continue ongoing programs, including articles in Council publications and on the CGD website.

- [Ongoing | Responsibility – Planning & Design](#)

Ongoing

Work with key stakeholders such as the Council Alliance for a Sustainable Built Environment (CASBE) and South East Water to increase community awareness on how to save water.

- [Ongoing | Responsibility – Planning & Design + Infrastructure Services & Planning](#)

Ongoing

Completed Actions

Development and launch of SDAPP Fact Sheets for Greater Dandenong.

✓



Community Objective: WS – 2.2 Stormwater

Work with key partners to reduce the impact of stormwater on catchments within the city.

2020 TARGET
Increase % of Catchments = Best Practice
BASELINE
Establish Baseline
PERFORMANCE
Limited Data
NOT AVAILABLE

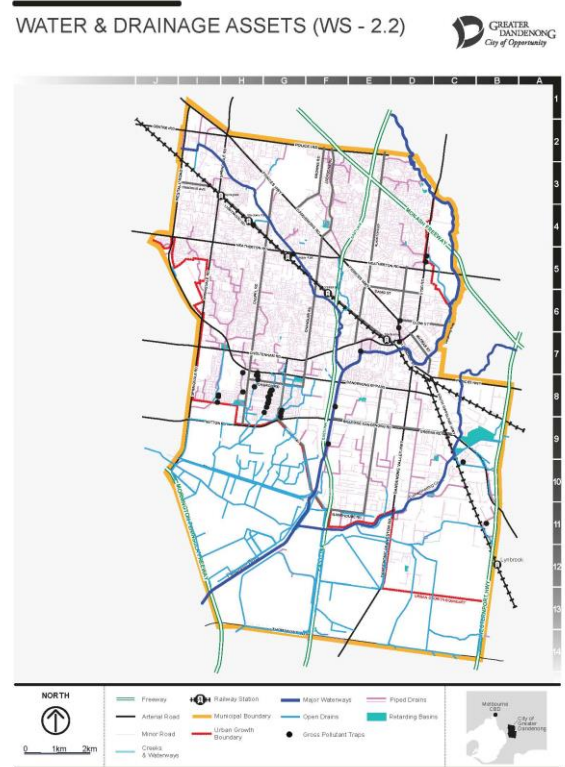
Key partners with responsibility for managing stormwater drainage systems in Greater Dandenong include:

- Individual property owners - responsible for stormwater drainage systems within their property, with these systems generally connecting to council systems.
- Council - generally responsible for the installation and maintenance of drainage systems (including water quality and flood mitigation) for catchments less than 60 hectares.
- Melbourne Water (MW) - generally responsible for the installation and maintenance of drainage systems for catchments greater than 60 hectares.

While Council and MW manage their assets to minimise the impacts of stormwater within the City, the Victorian Planning Scheme provides an opportunity to influence individual property owners to reduce their impacts on stormwater within the city.

The performance against this target is currently not available due to limited data. As a result, Council will focus on establishing a baseline and method to track Council's performance

Figure WS – 2.2 Water and Drainage Assets



Refer to <http://sustainable.greaterdandenong.com>

As shown in Figure WS – 1.2, the network of stormwater drainage and waterways assets within Greater Dandenong managed by Council and Melbourne Water is extensive.

Highlights

Development of Council's Draft Sustainable Stormwater Strategy.

Current Actions

Current Actions	Status
Seek adoption of the Draft Sustainable Stormwater Strategy. <ul style="list-style-type: none"> ▪ 2017-18 Responsibility – Infrastructure Services & Planning 	In Progress
Delivery of source stormwater monitoring and engagement programs. <ul style="list-style-type: none"> ▪ 2015-18 Responsibility – Regulatory Services + Planning & Design 	In Progress
Continue advocacy and collaboration with key partners including Melbourne Water and the Department of Environment, Land, Water and Planning and the CRC-Water Sensitive Cities. <ul style="list-style-type: none"> ▪ Ongoing Responsibility – Infra. Services & Planning + Planning & Design 	Ongoing
Undertake flood analysis and mitigation prioritisation in conjunction with Melbourne Water. <ul style="list-style-type: none"> ▪ 2016-18 Responsibility – Infrastructure Services & Planning 	In Progress
Preparation of local ESD Planning Policy for the Greater Dandenong Planning Scheme. <ul style="list-style-type: none"> ▪ 2016-18 Responsibility – Planning and Design 	In Progress
Use the SDAPP framework and BESS assessment tool to assess planning applications. <ul style="list-style-type: none"> ▪ Ongoing Responsibility – Planning and Design 	Ongoing
Consider opportunities to establish the baseline of Council's Best Practice Stormwater projects. <ul style="list-style-type: none"> ▪ 2017-18 Responsibility – Planning & Design + City Improvement 	Not Started

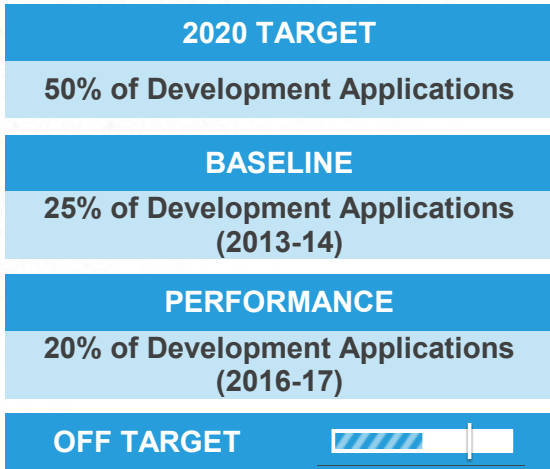
Completed Actions

Public exhibition of the Draft Sustainable Stormwater Strategy.	✓
Modelling and analysis of flood impacts and mitigation in Greater Dandenong with Melbourne Water.	✓



Community Objective: WS – 2.3 Planning

New developments within the city to incorporate best practice water and stormwater measures.



The average Melbourne household uses 240kL of mains potable water each year, about 10% of the water needed to fill an Olympic sized swimming pool. 90% of this water consumption is used for toilets, garden irrigation and uses that don't require drinking water.

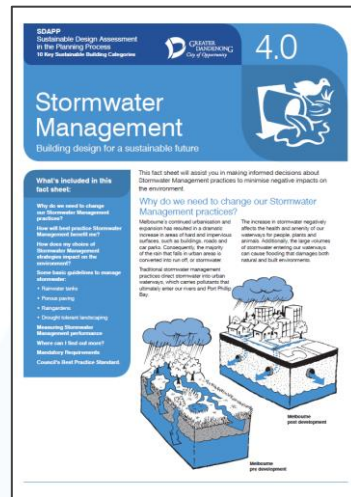
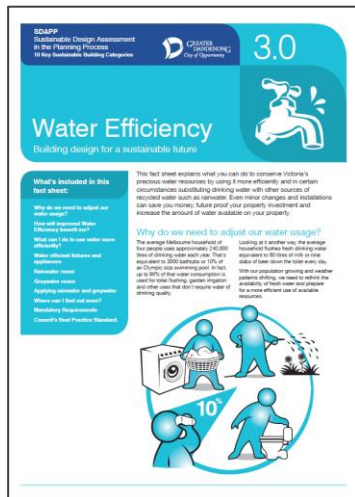
Council uses the Sustainable Design Assessment in the Planning Process (SDAPP) and Built Environment Sustainability Scorecard (BESS) to assess the sustainability of development applications.

In 2016-17 Council assessed the Environmentally Sustainable Design (ESD) credentials of 67 new development applications. This equals 20% of all new development applications and 60% of development applications that meet the SDAPP trigger levels

To help address water and stormwater issues Council uses the SDAPP Fact Sheets – see Figure WS-2.4:

- Water Efficiency and Stormwater Management.

Figure WS – 2.4 Water Efficiency and Stormwater Management SDAPP Fact Sheets



Highlights

Implementation of the Built Environment Sustainability Scorecard (BESS), an online tool for planning applications. Grant funding received to train officers in the assessment of development applications to improve stormwater quality and help protect public and private assets. Funding provided through Melbourne Water's Living Rivers Program.

Current Actions

Current Actions	Status
Preparation of Local ESD Planning Policy for the Greater Dandenong Planning Scheme. <ul style="list-style-type: none"> 2016-18 Responsibility – Planning & Design 	In Progress
Help reduce the impacts of stormwater runoff and flooding through the planning process. <ul style="list-style-type: none"> Ongoing Responsibility – Planning & Design + Infrastructure Services & Planning 	Ongoing
Use the SDAPP framework and BESS assessment tool to assess planning applications. <ul style="list-style-type: none"> Ongoing Responsibility – Planning & Design 	Ongoing
Integrating development Water Sensitive Urban Design (WSUD) measures into the building and planning approvals processes funded through Melbourne's Living Rivers Fund. <ul style="list-style-type: none"> 2017-18 Responsibility – Planning & Design + Infrastructure Services & Planning 	In Progress

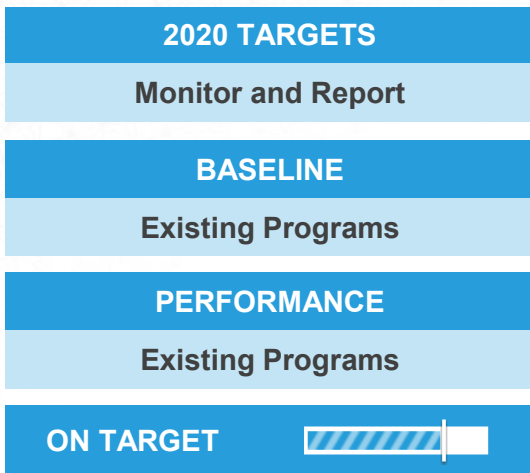
Completed Actions

Development and launch of SDAPP Fact Sheets for Greater Dandenong.	✓
Training of Council Planning Staff on the SDAPP process and BESS tool.	✓



Community Objective: WS – 2.4 Awareness

Engage with the community, both residents and businesses, to increase their awareness of water use and management.



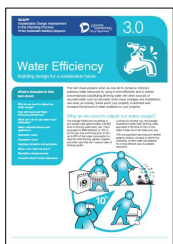
The local community can play a critical role in the management of water within Greater Dandenong, both in the public and private realm.

This may be through a variety of ways, including:

- efficient use and management of our water resources
- compliance with State and Local environmental planning laws
- participation in local activities such as frog surveys and Waterwatch activities
- through advocacy and involvement in policy development processes.

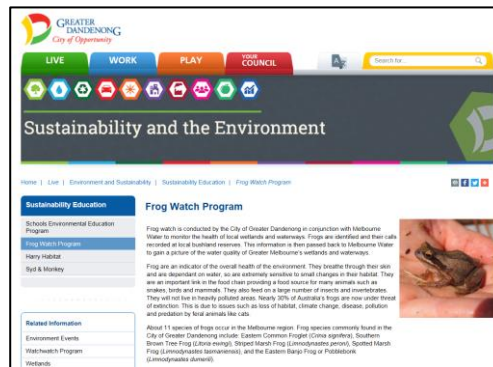
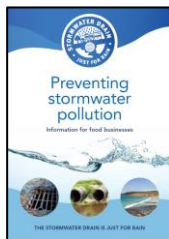
For the City of Greater Dandenong to achieve its goal of becoming a Water Sensitive City, the required changes to policies, practices and technology will need to be accepted and embraced by the community.

Figure WS – 2.4 Examples of Council's programs to raise awareness around water management



SDAPP Fact Sheets to inform applicants on how to improve water management in development.

Stormwater monitoring and engagement programs in industrial and commercial areas



Council's website, publications and social media platforms provide the opportunity to increase community awareness on water related issues.

Highlights

Grant received from Melbourne Water via Living Rivers Program to integrate Water Sensitive Urban Design (WSUD).
Implementation of the Built Environment Sustainability Scorecard (BESS) to assess the ESD of planning applications.

Current Actions

	Status
Use website, publications and social media to promote water efficiency and stormwater management.	Ongoing
Integrating Water Sensitive Urban Design (WSUD) measures into development applications.	Ongoing
Increase awareness of water issues at events like World Wetland Day and Sustainability Festival.	Ongoing
Facilitate Waterwatch activities with local schools and community Groups.	Ongoing
Delivery of a program to engage with local businesses focussed on improving the quality of stormwater runoff, with funding support through Melbourne Water's Living Rivers program.	In Progress

Completed Actions

Monitoring program enabling engagement with local businesses to improve local waterway quality.	✓
Facilitating kids teaching kids program in schools with Melbourne Water and Dolphin Research Institute.	✓



WASTE & RESOURCES



Imagine a city with clean public places where resources are used efficiently, resulting in lower costs, less waste and healthy local environments.

OUR GOAL: A WASTE WISE CITY

Background

Australians are reported to be one of the highest generators of waste in the world per capita, with the average Victorian generating over two (2) tonnes per year. The amount of waste we generate continues to grow, with our relatively affluent lifestyles and a population growth both significant factors.

Council has established waste and resource use objectives and targets that will reduce the use of natural resources, reduce waste to landfill, increase reuse and recycling of materials and reduce litter.

Corporate Objectives

Performance Indicator

WR – 1.1 Waste to Landfill	49% of Total Waste to Landfill (2017)	
WR – 1.2 Recycling and Re-use	51% of Total Waste Diverted from Landfill (2017)	
WR – 1.3 Resource Efficiency	Establish Program BY 2020	
WR – 1.4 Sustainable Procurement	Updated 2017 Procurement Policy (2016-17)	

Community Objectives

Performance Indicator

WR – 2.1 Waste to Landfill	9% Reduction 10.4kg / Household Garbage / Week	
WR – 2.2 Recycling and Re-use	1% Increase 4.4 kg / Household Recyclables / Week	
WR – 2.3 Litter Prevention	4,165 Customer Service Requests (2016)	
WR – 2.4 Planning	20% of Development Applications (2016-17)	
WR – 2.5 Awareness	89 activities 2,819 attendees (2016-17)	



Corporate Objective: WR – 1.1 Waste to Landfill

Reduce the amount of waste sent to landfill from Dandenong Civic Centre and Operations Centre.

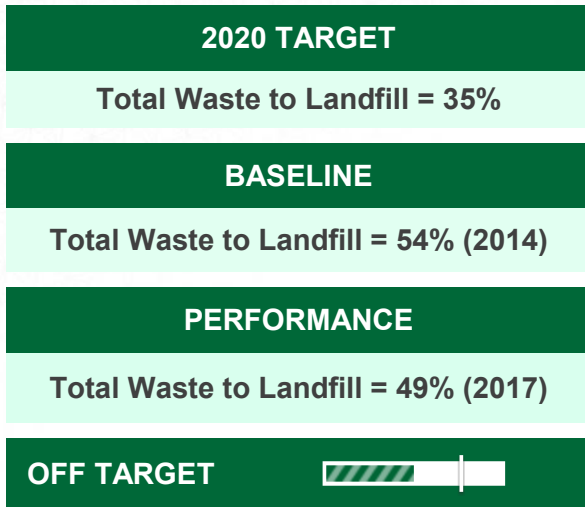


Figure WR-1.1a shows the results from waste audits conducted in June 2017 of offices at the Dandenong Civic Centre and Operations Centre – it indicates:

- Total waste collected in 2017 was 15.6 tonnes per year
 - An increase on the 13.0 tonnes in 2016
 - A decrease on the baseline of 28.5 tonnes
- From this waste sent to landfill equalled 49%
 - An increase of 9% compared to 2016,
 - A decrease from 54% recorded in 2014.

Figure WR-1.1b shows that of the waste placed in the garbage bins at Council offices:

- 28.3% could have been recycled
- 18% could have been composted.

While this is an improvement on the previous year, there are still further opportunities to divert office waste from landfill.

Figure WR – 1.1a Council Office Waste Audit – Overall Results

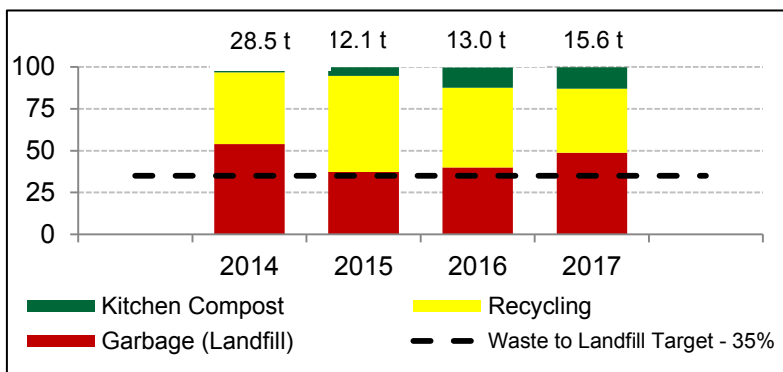
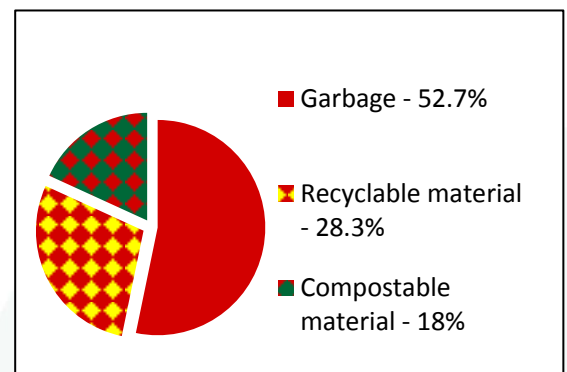


Figure WR – 1.1b Composition of waste placed in Council office garbage bins



Highlights

Recovery of food scraps from council office kitchens, as part of Council's Waste Wise office recycling program.
Introduction of battery, light globe, CDs / DVDs and mobile collection point at the Dandenong Civic Centre.

Current Actions

Expansion of trial recycling program for batteries, light globes, CDs, DVDs and mobiles at Council's offices to include other customer service areas along with a possible trial in libraries.

- 2017-18 | Responsibility – Infrastructure Services & Planning

Ongoing implementation of Council's Waste Wise office recycling program.

- Ongoing | Responsibility – Infrastructure Services & Planning

Status

Ongoing

Ongoing

Completed Actions

Annual audit of Council Offices to track waste sent to landfill. ✓

Provision of recycling bins in Council offices. ✓

Provision of composting bins and collection service within Council's offices. ✓

Ongoing promotion through Council's website and promotional material. ✓



Corporate Objective: WR – 1.2 Recycling and Re-use

Increase the amount of material that is recovered for re-use and recycling.


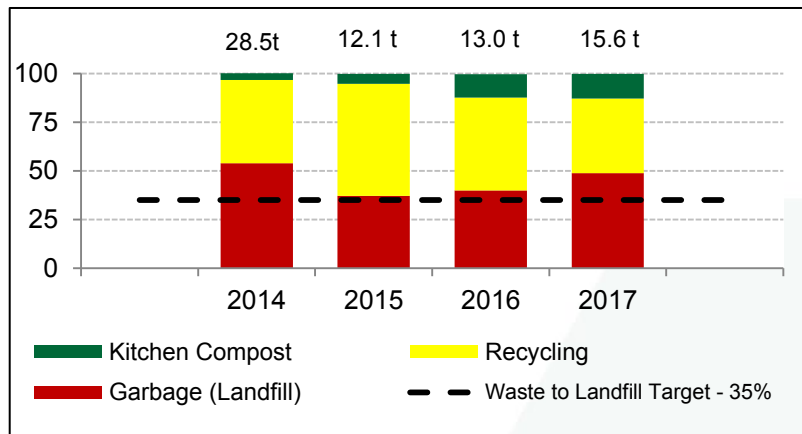
2020 TARGET
65% Diverted from Landfill – Recyclables / Organics
BASELINE
46% of Total Waste Diverted from Landfill (2014)
PERFORMANCE
51% of Total Waste Diverted from Landfill (2017)
OFF TARGET 

Figure WR-1.1a shows the results from waste audits conducted in June 2017 of offices at the Dandenong Civic Centre and Operations Centre – it indicates:

- Total waste collected in 2017 was 15.6 tonnes per year
 - An increase on the 13.0 tonnes in 2016
 - A decrease on the baseline of 28.5 tonnes
- From this total waste collected, waste that was diverted from going to landfill equalled 51% - of which:
 - 38.3% was recycled (a decrease from the 47.7% in 2016)
 - 12.8% was composted (an increase from the 12.2% in 2016)

By providing collection bins for kitchen wastes, over the last 3 years Council has increased the amount of composting material collected. This material is used as compost in the gardens at Heritage Hill.

Figure WR – 1.2a Council office waste audit – overall results



Highlights

Recovery of food scraps from council office kitchens, as part of Council's Waste Wise office recycling program.
Introduction of a battery, light globe, CDs / DVDs and mobile collection point at Council Civic Centre.

Current Actions

Current Actions	Status
Expand recycling program for batteries, light globes, CDs, DVDs and mobiles. <ul style="list-style-type: none"> 2016-18 Responsibility – Infrastructure Services & Planning 	Ongoing
Implementation of Council's office recycling program (Waste Wise) across Council offices. <ul style="list-style-type: none"> Ongoing Responsibility – Infrastructure Services & Planning 	Ongoing
Operation Centre's Recycling Program to increase recycling of operational wastes. <ul style="list-style-type: none"> Ongoing Responsibility – Infrastructure Services & Planning 	Ongoing
Investigate the diversion of street sweepings from landfill. <ul style="list-style-type: none"> 2017-18 Responsibility – Infrastructure Services & Planning 	In Progress

Completed Actions

Conduct annual audit of Council Offices to inform new initiatives to increase recycling	✓
Provision of recycling bins in Council offices.	✓
Provision of composting bins and collection service within Council's offices.	✓



Corporate Objective: WR – 1.3 Resource Efficiency

Establish a resource efficiency program for goods and materials across Council.

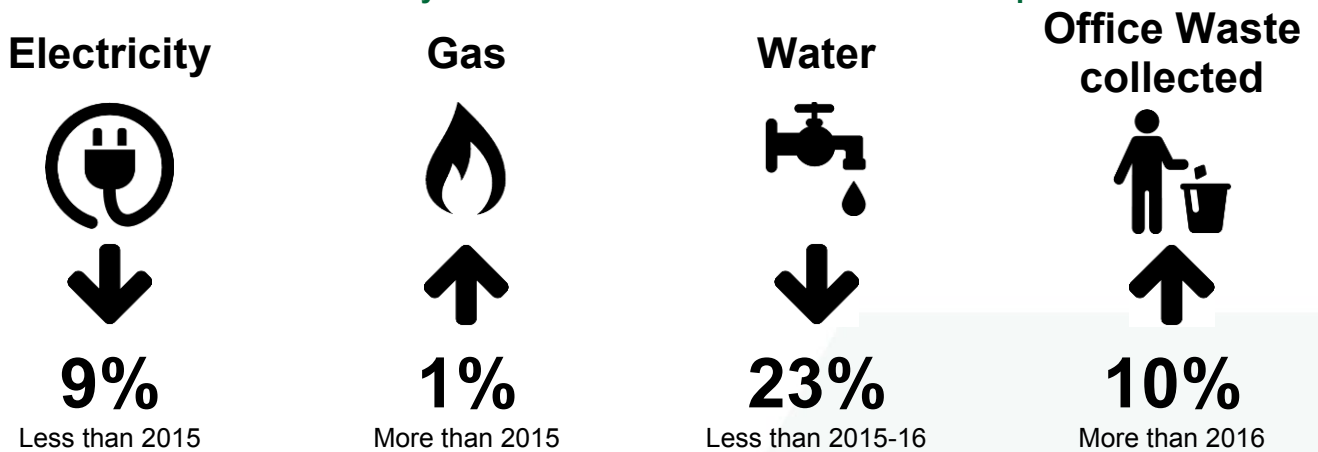


Resource efficiency means using our limited resources in a sustainable manner while minimising impacts on the environment. It allows us to create more with less and to deliver greater value with less input, thus saving money at the same time as saving the planet.

Council's Resource Efficiency Program will build on its existing practices and be based on the following principles:

1. Ensure that resource efficiency is a factor in all major decisions
2. Reduce consumption to offset the rising costs of energy, water, materials and waste management.
3. Work in partnership with local businesses and key organisations such as the Metropolitan Waste and Resource Recovery Group and Sustainability Victoria.
4. Report on an annual basis on progress made against this objective.

Figure WR – 1.3 Resource Efficiency – Council's use of resources across its operations



Highlights

Council's updated 2017 Procurement Policy.

Significant ongoing reductions in Council's usage of water, electricity and gas across its facilities and operations. Energy audits undertaken at 18 of Council's highest energy using buildings to identify new saving opportunities.

Current Actions

Current Actions	Status
Ongoing implementation of Council's Procurement Policy.	Ongoing
<ul style="list-style-type: none"> ▪ Ongoing Responsibility – People & Procurement Services 	
Consideration of opportunities to monitor and report on Council's sustainable procurement activities.	Not Started
<ul style="list-style-type: none"> ▪ 2017-19 Responsibility – People & Procurement Services + Planning & Design 	
Develop a Sustainable Buildings Policy for design and construction of Council buildings.	In Progress
<ul style="list-style-type: none"> ▪ 2016-18 Responsibility – Planning & Design 	
Update Council's Buildings specification standards for upgrades of plant and equipment.	In Progress
<ul style="list-style-type: none"> ▪ 2016-18 Responsibility – Planning & Design 	
Implementation of Building Energy Management Plan based on audit of high energy using buildings.	In Progress
<ul style="list-style-type: none"> ▪ Subject to funding Responsibility – City Improvement + Planning & Design 	
Establish a Resource Efficiency Program for Council.	Not Started
<ul style="list-style-type: none"> ▪ 2017-20 Responsibility – Planning & Design + People & Procurement Services 	

Completed Actions

Update of Council's 2014 Procurement Policy.	✓
Completion of energy audits at 18 of Council's highest energy using buildings.	✓



Corporate Objective: WR – 1.4 Sustainable Procurement

Review and update sustainable procurement policy for goods and materials across Council.

2020 TARGET
Update Existing Policy
BASELINE
Procurement Policy (2014)
PERFORMANCE
Updated 2017 Procurement Policy (2016-17)
ON TARGET 

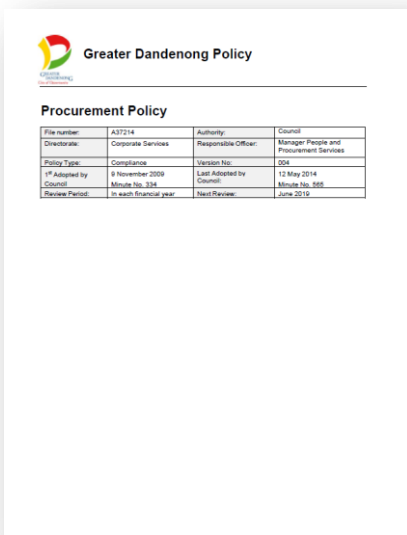
Corporate Social Responsibility (CSR) focuses on taking positive action to deliver an organisation's commitment to the local community and environment.

For the City of Greater Dandenong, this means maximising the social, environmental and economic benefits of the services it provides across the community and minimising the negative aspects.

Council has integrated CSR into its organisational policies and practices through the 2017 Procurement Policy via its commitment to social, sustainable and local economic procurement objectives.

Sustainable Procurement is a process whereby organisations meet their needs for goods, services, works and utilities in a way that achieves value for money on a whole of life basis in terms of generating benefits not only to the organisation, but also to society and the economy, whilst minimising damage to the environment.

Figure WR – 1.4 Sustainable Procurement integrated into Council's Procurement Policy



- Council will encourage the design and use of products and services which have minimal impact on the environment and human health, including:
 - Waste Management and Recycling
 - Water and Energy Management
 - Emissions
 - Green Building Design
- Council shall encourage suppliers to adopt good environmental practices and requires suppliers to have an Environmental Management System.
- Council will actively promote green procurement throughout its supply chain and where possible consider selection which has minimum environmental impact.

Highlights

Integration of Corporate Social Responsibility (CSR) into Council's updated 2017 Procurement Policy.

Current Actions

	Status
Ongoing implementation of Council's Procurement Policy.	Ongoing
<ul style="list-style-type: none"> ▪ Ongoing Responsibility – People & Procurement Services 	
Consideration of opportunities to monitor and report on Council's sustainable procurement activities.	Not Started
<ul style="list-style-type: none"> ▪ 2017-19 Responsibility – People & Procurement Services + Planning & Design 	
Develop a Sustainable Buildings Policy for design and construction of Council buildings.	In Progress
<ul style="list-style-type: none"> ▪ 2016-18 Responsibility – City Improvement + Planning & Design 	
Update Council's Buildings specification standards for upgrades of plant and equipment.	In Progress
<ul style="list-style-type: none"> ▪ 2016-18 Responsibility – City Improvement + Planning & Design 	


Completed Actions

Update of Council's 2014 Procurement Policy. ✓



Community Objective: WR – 2.1 Waste to Landfill

Work in partnership with our community to reduce the amount of waste sent to landfill.

2020 TARGET
Aspire for a 10% Reduction
BASELINE
11.5 Kg / Household Garbage / Week (2013-14)
PERFORMANCE
9% Reduction 10.4 Kg / Household Garbage / Week (2016-17)
ON TARGET 

In 2016-17 Council's household kerbside service collected:

- 56,261 tonnes (t) of total waste
- 29,613 tonnes of waste that was sent to landfill
 - A decrease of 2,665 tonnes in waste sent to landfill when compared to 2013-14.
 - An increase of 159 tonnes in waste sent to landfill when compared to 2015-16.

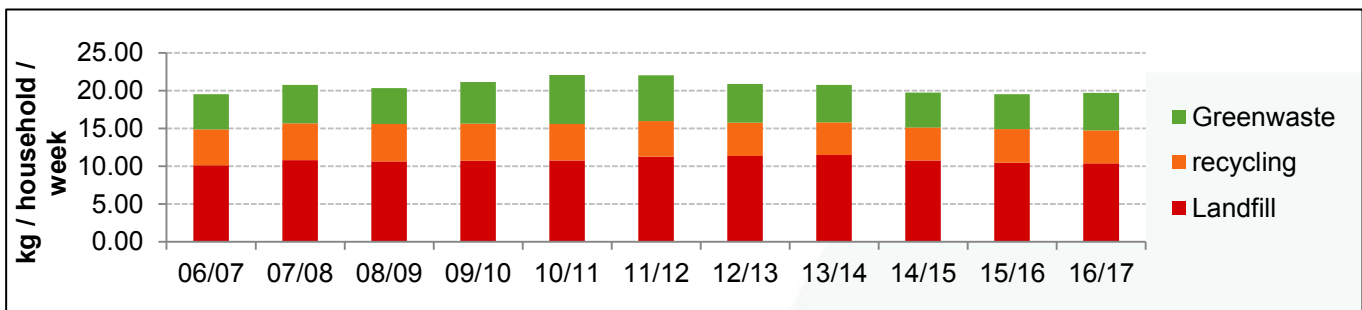
The number of residential properties serviced by Council's kerbside collection increased by 794 in 2016-17 to a total of 54,532.

Figure WR-2.1 shows the average total waste collected by Council's kerbside service on a per household basis – it indicates that:

- An average of 19.5kg of total waste was collected per household per week
 - An average of 10.4kg of household collected per week waste was sent to landfill
- A reduction of 9% when compared to the 2013-14 baseline

The overall annual waste tonnages from all households is under the 2013-14 tonnages prior to the Great Bin Swap when the size of the average household garbage bin was reduced from 140 to 120 litres. This is despite the addition of over 2,000 additional properties since that time.

Figure. WR – 2.1 Waste to Landfill – from Council's household kerbside collection service



Highlights

Two "Pop-up Drive Thru Recycle" averaged 1,000 cars and received huge amount of positive community feedback, and winner of the 2017 Keep Victoria Beautiful Awards – Resource Recovery and Waste Management category.

2016-17 Waste and Litter Strategy Action Plan's 82 actions considered and actioned.

A "HomeCycle" collection service geared towards re-use, recycling and diversion from landfill.

Current Actions

Current Actions	Status
Implementation of 2017-18 Waste Education Program	Ongoing
<ul style="list-style-type: none"> Ongoing Responsibility – Infrastructure Services & Planning 	
Promotion of waste minimisation through Council's website and other publications.	Ongoing
<ul style="list-style-type: none"> Ongoing Responsibility – Infrastructure Services & Planning 	
Implementation of 2017-18 Action Plan for the Waste and Litter Strategy	Ongoing
<ul style="list-style-type: none"> Ongoing Responsibility – Infrastructure Services & Planning 	
Deliver two "Pop-up Drive Thru Recycle" events and a "HomeCycle" collection services	Ongoing
<ul style="list-style-type: none"> 2017-18 Responsibility – Infrastructure Services & Planning 	

Completed Actions

Delivery of Waste and Litter Strategy's 2016-17 Action Plan.	✓
Delivery of a comprehensive 2016-17 Waste Education Program.	✓
Lobby State Government to invest EPA Landfill Levy revenue into waste and recycling initiatives	✓



Community Objective: WR – 2.2 Recycling and Re-use

Work in partnership with the community to increase recycling rates across the city.

2020 TARGET
Aspire for a 10% Increase
BASELINE
4.3 kg / Household Recyclables / Week (2013-14)
PERFORMANCE
1% increase 4.4 kg / Household Recyclables / Week (2016-17)
OFF TARGET

In 2016-17 Council's household kerbside service collected:

- 56,261 tonnes (t) of total waste
- 12,510t or 22% of this waste was sent for recycling
- 14,138t or 25% of this was greenwaste recycled into compost

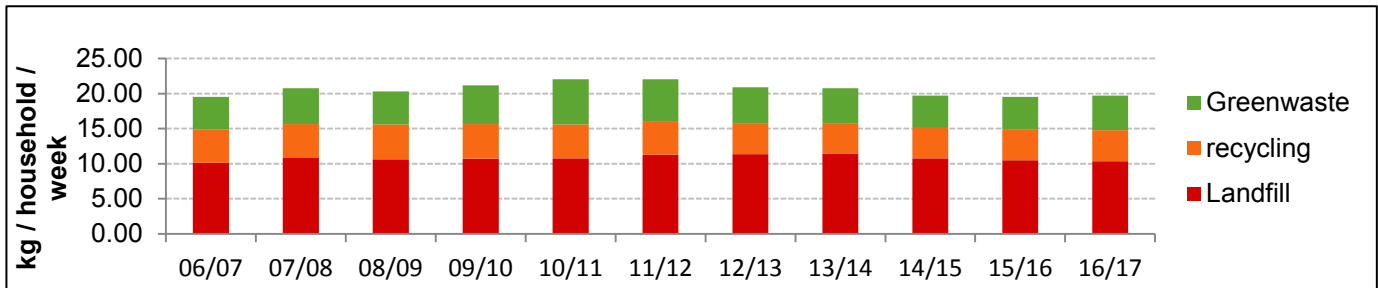
The number of residential properties serviced by Council's kerbside collection increased by 794 in 2016-17 to a total of 54,532.

Figure WR-2.1 shows the average total waste collected by Council's kerbside service on a per household basis – it indicates that:

- An average of 19.5kg of total waste was collected per household per week
- an average of 4.38kg per household per week was recycled (a 1% increase on 2013-14 baseline)
- an average of 4.95kg per household per week was composted (a 0.5% increase on 2013-14 baseline)

Key facts about waste recycled or greenwaste – In 2016-17 saw an increase in recycling material collected, despite factors such as reduced newspaper recycling. In addition, rainfall levels continued to influence greenwaste collected.

Figure. WR – 2.2 Waste to Landfill – from Council's household kerbside collection service



Highlights

Analysis of collection data to identify high level household recycling bin contamination zones and the implementation of a bin auditing program to educate and improve waste and recycling behaviours of residents.

Working with Property Managers to address waste compliance issues and deliver tailored solutions to enhance resident's recycling and waste disposal behaviours at multi dwelling sites.

Two "Pop-up Drive Thru Recycle" events and a "HomeCycle" collection service for all residential properties.

The 2016-17 Waste and Litter Strategy Action Plan's 82 actions were considered and actioned.

Establishment of Advisory Service for Process information and Resource Exchange (ASPIRE) for businesses.

Current Actions

Implementation of the Waste and Litter Strategy's 2017-18 Action Plan and Annual Waste Education Plan.

- **Ongoing | Responsibility – Infrastructure Services & Planning**

Introduction of a Property Manager Liaison Officer to enhance relationships with Property Managers of multi dwelling sites to develop tailored waste and recycling solutions at 12 sites.

- **Ongoing | Responsibility – Infrastructure Services & Planning**

Review the Hard Waste Collection Service prior to going to tender in September 2018 with the aim of increasing recycling and re-use.

- **Ongoing | Responsibility – Infrastructure Services & Planning**

Undertake a targeted program of bin auditing to enhance recycling compliance and foster sound recycling behaviours

- **Ongoing | Responsibility – Infrastructure Services & Planning**

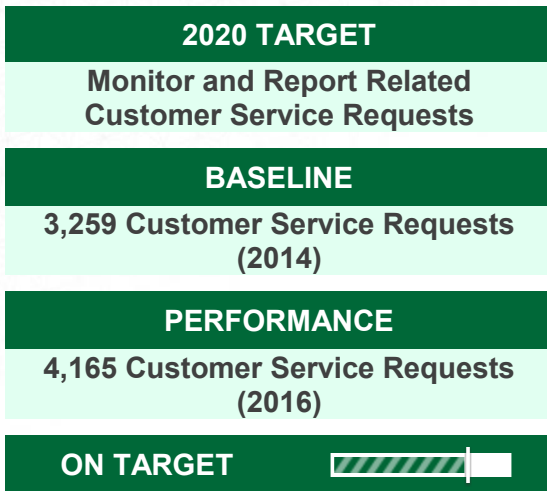
Completed Actions

Delivery of Waste and Litter Strategy 2016/17 Action Plan. ✓



Community Objective: WR – 2.3 Litter Prevention

Work with the community to provide clean streets and waterways by reducing littering and dumped rubbish.



Council’s 2017-18 Waste and Litter Strategy Litter Action Plan details initiatives to combat littering and dumped rubbish in the coming year.

This plan focuses on the following initiatives:

- #MSNOBUTTs campaign
- Living Rivers Waterway Health litter campaign
- Clean Up Australia Day Activities
- Litter Education Events and Activities – check focus areas for litter plan.

In 2016 there were 4,165 Customer Service Requests to Council related to dumped rubbish and litter. This led to 349 litter related fines and 16 cases taken to court.

As expected, these results have increased since 2014 with the continuous implementation of the 'It's in your hands to report littering' campaign.

Figure WR – 2.3 Litter Prevention – outcomes of Customer Service Requests (2016)

Litter & Dumped Rubbish Requests



4,165

Fines



349

Court Cases



16

Highlights

Council’s #MSNOBUTTs anti cigarette-butt litter campaign continued to receive media coverage throughout Victoria and was announced winner of the 2017 Keep Victoria Beautiful Awards – Litter Prevention category.

Conducted the annual Detox Collection Day in partnership with Sustainability Victoria.

Successful implementation of the “Proactive Hotspots Dumped Rubbish Collection Program” providing rapid removal of dumped rubbish, cleaner streets and encouragement to residents to keep their neighbourhood clean.

Current Actions

Current Actions	Status
Delivery of Waterway Health campaign with funding support through Melbourne Water.	In Progress
▪ 2016-18 Responsibility – Regulatory Services	
Delivery of Litter Innovation #MSOBUTTs partnership program.	In Progress
▪ 2017-18 Responsibility – Regulatory Services	
Development and delivery of the 2017-18 Waste and Litter Strategy Litter Action Plan.	Ongoing
▪ Ongoing Responsibility – Infrastructure Services & Planning	
Conduct regular council officer Litter Action Task Force meetings to strategize and coordinate litter initiatives including rubbish within the municipality.	Ongoing
▪ Ongoing Responsibility – Regulatory Services + Infrastructure Services & Plan.	
Facilitate ‘Clean Up Australia Day’ activities across the municipality each year.	Ongoing
▪ Ongoing Responsibility – Infrastructure Services & Planning	
Updating the ‘Dob in a Dumper’ and ‘It’s in your Hands’ illegal dumping brand.	In Progress
▪ Ongoing Responsibility – Infrastructure Services & Plan. + Regulatory Services	
Partnership with the Dandenong Office of Corrections and Gateway Industries to undertake a litter collection program across council parks and rural road reserves.	Ongoing
▪ Ongoing Responsibility – Infrastructure Services & Planning	

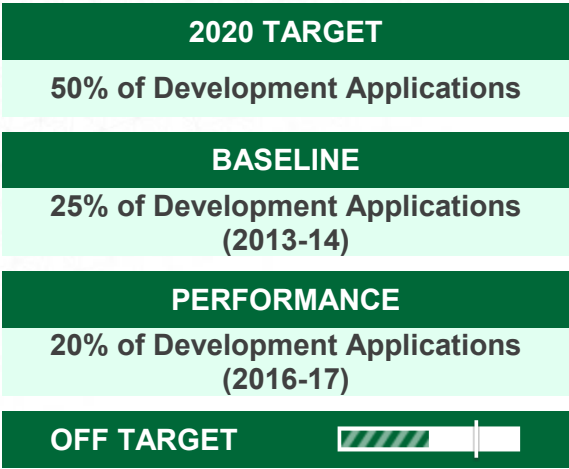
Completed Actions

A review of public litter bins considerate of their best deployment and servicing schedules necessary to support appropriate litter disposal behaviours.	✓
Litter Hotspots #MSNOBUTTs anti cigarette butt litter education campaign.	✓
Completion of activities from the Waste and Litter Strategy 2016/17 Action Plan.	✓
Implementation of Council’s dumped rubbish initiatives to address the increase of dumped rubbish.	✓



Community Objective: WR – 2.4 Planning

New developments within the city to incorporate best practice waste and resource management



Council is working closely with developers to ensure that they address the following key facts:

- Building construction currently consumes between 30-50% of raw materials worldwide.
- Up to 40% of waste going to landfill is related to the construction and demolition of buildings.

More waste is produced during occupancy of buildings and production of consumer goods.

Council uses the Sustainable Design Assessment in the Planning Process (SDAPP) and Built Environment Sustainability Scorecard (BESS) to assess the sustainability of development planning applications.

In 2016-17 Council assessed the Environmentally Sustainable Design (ESD) credentials of 67 new development applications. This equals 20% of all new development applications and 60% of new development applications that meet the SDAPP Trigger Levels.

To help developers address these issues Council uses the SDAPP Fact Sheets – Figure BWR-2.4b:

- Waste Management
- Buildings Materials.

Figure WR – 2.4b Waste Management and Building Materials SDAPP Fact Sheets



Current Actions	Status
Assessment of waste management plans as part of development planning applications.	Ongoing
▪ Ongoing Responsibility – Planning & Design + Infrastructure Services & Plan.	
Preparation of Local ESD Planning Policy for the Greater Dandenong Planning Scheme.	In Progress
▪ 2016-18 Responsibility – Planning & Design	
Use the SDAPP framework and BESS assessment tool to assess planning applications.	Ongoing
▪ Ongoing Responsibility – Planning & Design	
Completed Actions	
Development and launch of SDAPP Fact Sheets for Greater Dandenong.	✓



Community Objective: WR – 2.5 Awareness

Increase community awareness on waste and resources and benefits of smart consumption, re-use and recycle.



Council's Annual Waste Education Plan identifies activities to be undertaken by Council to increase community awareness on waste and resources that aims to minimise waste and increase recycling.

In 2016-17, Council undertook 89 specific activities involving over 2,819 members of the community. This was a decrease in numbers from 2015-16 where Council undertook 96 activities involving 4,300 participants.

Activities undertaken included:

- Working with primary schools and early learning centres
- 'Follow your Waste' tours and free detox your home services
- Working with migrant communities
- Waste education activities at events and festivals.
- Council also initiated 2 Pop-Up Drive thru Recycle and Homecycle events which collected over 200 tonnes of waste with over 55% of the material being recycled / reused.

Council's South East Business Network is working with businesses to build capability to avoid waste and increase material efficiency.

Figure WR – 2.5 Examples of Waste Education and Awareness Activities



A variety of articles in Council's publications and website



School Activities: 65
Attendees: 1,889



Events / Workshops / Tours: 24
Attendees: 930

Highlights

Developed and delivered a media and marketing plan which included the provision of waste and recycling educational literature via media articles, council's website and customer service centres.

Development of ASPIRE* to help businesses cut waste costs and facilitate collaboration between local businesses.

Delivery of waste and recycling bin infrastructure supported by educational initiatives to maximise recycling.

Delivery of a comprehensive waste education program targeting schools, migrant groups and households.

*ASPIRE = Advisory Service for Process Information and Resource Exchange

Current Actions

Current Actions	Status
Develop and implement the 2017/18 Waste and Litter Strategy's Action Plan and Annual Waste Education Plan.	Ongoing
<ul style="list-style-type: none"> Ongoing Responsibility – Infrastructure Services & Planning Support a target approach on contamination and dumped rubbish at multi-unit sites with a complimentary education program in support of the newly created Property Liaison Officer	Ongoing
<ul style="list-style-type: none"> Ongoing Responsibility – Infrastructure Services & Planning Continue to promote and encourage participation in ASPIRE* resource exchange project.	Ongoing
<ul style="list-style-type: none"> Ongoing Responsibility – South East Business Network Continue to raise awareness, provide exposure to good practice and encourage adoption of all disciplines of sustainability across all SEBN networks and activities.	Ongoing
<ul style="list-style-type: none"> Ongoing Responsibility – South East Business Network 	

Completed Actions

Delivery of the 2016/17 Waste Education Program	✓
Enhanced partnerships with Property Managers delivering waste solutions and education for multi-unit sites and their residents.	✓



TRANSPORT & MOVEMENT



Imagine a Well Connected City that is easy, safe and affordable to walk and cycle around, is well connected to public transport and has a clear hierarchy for the effective movement of vehicles.

OUR GOAL: A WELL CONNECTED CITY

Background

Transport is central to our modern way of life. It connects us with our families, friends and community as well as to resources, employment and services. An effective transport system is critical to the liveability of any city. In addition, active transportation modes, such as walking and cycling, improve social and health outcomes.

Council has established integrated transport and movement objectives and targets to help facilitate easy, safe and affordable transport options for the community, improved health and social outcomes, as well as reduced emissions.

Corporate Objectives

Performance Indicator

TM – 1.1 Active Transport	Council Staff Journey to work: 0.75% walk 0.75% Cycle (2016)	
TM – 1.2 Low Carbon Transport	Council Staff Journey to work: 6.4% Train 0.4% Bus (2016)	
TM – 1.3 Fleet Operations	5.7% Increase in emissions (2016)	
TM – 1.4 Walking and Cycling Networks	112.81km Shared Paths 69.99km On Road Paths (Jul 2017)	

Community Objectives

Performance Indicator

TM – 2.1 Active Transport	Residents Journeys to Work: 1.9% Walk 0.5% Cycle (2011)	
TM – 2.2 Low Carbon Transport	Residents Journeys to Work: 10.9% Train 5% Bus (2011)	
TM – 2.3 Access to Public Transport	34% Frequent Service 52% Less Frequent Service 14% No Service within 400m (2016)	
TM – 2.4 Planning	20% of Development Applications (2016-17)	
TM – 2.5 Awareness	Existing Programs	



Corporate Objective: TM – 1.1 Active Transport

Support Council staff to increase levels of active transport – such as walking and cycling.

2020 TARGET
Increase Active Transport (Modes) by 20%
BASELINE
Council Staff Journey to Work: 0% Walk 0.75% Cycle (2011)
PERFORMANCE
Council Staff Journey to Work: 0.75% Walk 0.75% Cycle (2016)
ON TARGET

A survey was undertaken in 2016 to determine the typical mode of travel to work by Council's staff. There were 267 responses to the survey.

244 of the respondents (91.4%) stated that their typical mode of transport was by car, predominantly as the driver, and in a few instances, as a passenger or in a car pool. This is a slight decrease compared with the 93% reported in the 2011 survey.

Survey responses clearly indicate that only a small number of Council's staff typically use active modes of transport to work:

- Walking - 2 respondents (0 in 2011)
- Cycling - 2 respondents (3 in 2011).

Figure TM – 1.1 Greater Dandenong Staff Survey – Active Mode of Travel



Cycling

0.75%

Walking

0.75%

Highlights

Council's Green Travel Plan updated in 2016.

Current Actions

Continue to encourage staff to use active transport modes through Council's Green Travel Plan.

- **Ongoing | Responsibility – People & Procurement Services**

Encourage staff to use active transport modes through events such as 'Ride2Work Day'.

- **Ongoing | Responsibility – Community Wellbeing**

Status

Ongoing

Ongoing

Completed Actions

Update of Council's 2014 Green Travel Plan.

✓

Staff survey on travel undertaken in 2016.

✓



Corporate Objective: TM – 1.2 Low Carbon Transport

Support Council staff to increase use of low carbon and sustainable transport options.

2020 TARGET
Increase Low Carbon Transport Modes by 10%
BASELINE
Council Staff Journey to work: 4.5% Train 1% Bus (2011)
PERFORMANCE
Council Staff Journey to work: 6.4% Train 0.4% Bus (2016)
ON TARGET

A survey was undertaken in 2016 to determine the typical mode of travel to work by Council's staff. There were 267 responses to the survey.

244 of the respondents (91.4%) stated that their typical mode of transport was by car, predominantly as the driver, and in a few instances, as a passenger or in a car pool. This is a slight decrease compared with the 93% reported in the 2011 survey.

Survey responses indicate that the use of public transport as the typical mode of travel to work is limited:

- Train - 17 respondents (13 in 2011)
- Bus - 1 respondent (3 in 2011).

Figure TM – 1.2 Greater Dandenong Staff Survey – Low Carbon Mode of Travel



Highlights

Council's Green Travel Plan updated in 2016.

Current Actions

Provision of MYKI cards to relevant business units to encourage staff to utilise public transport when appropriate during work hours.

- **Ongoing | Responsibility – People & Procurement Services**

Continue to encourage staff to use public transport through Council's Green Travel Plan.

- **Ongoing | Responsibility – People & Procurement Services**

Status

Ongoing

Ongoing

Completed Actions

Update of Council's 2014 Green Travel Plan.

✓

Staff survey on travel undertaken in 2016.

✓


Promotion of MYKI Commuter Club to staff to encourage use of public transport for journeys to work.

✓



Corporate Objective: TM – 1.3 Fleet Operations

Reduce emissions and costs associated with the operation of fleet – Council and contractors.

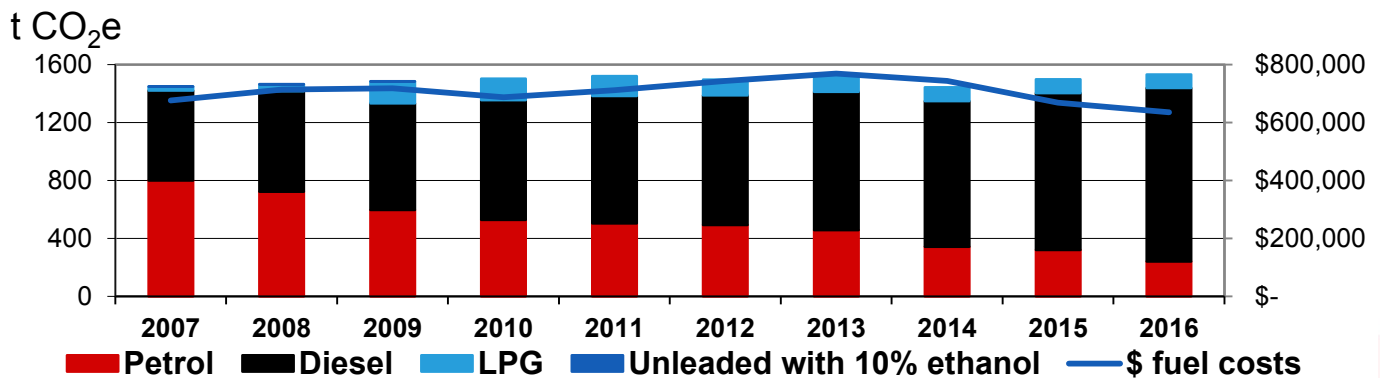
2020 TARGET
Reduce Emissions by 5%
BASELINE
1,448t-CO₂e (2007)
PERFORMANCE
5.7% Increase in Emissions (2016)
OFF TARGET 

In 2016, Council's vehicle fleet purchased 602,115L of fuel, which cost \$635,351 and emitted 1,531t-CO₂e.

In 2011, Council's vehicle fleet total fuel consumption peaked at 633,086L and 1,519t-CO₂e of emissions.

These figures are based on the fleet directly under Council's operational control. Where Council does not have direct operational control (such Council's household waste collection services, which is contracted out) these emissions are not included.

Figure TM – 1.3 Corporate Fleet – Emissions and Fuel Costs (within Operational Control)



Highlights

- Introduction of Euro 6 technology into the fleet with the purchase of a new road Sweeper.
- Transition from petrol and LPG passenger and light commercial vehicles to more fuel efficient diesel powered vehicles – has significant benefits when vehicles are under heavy load conditions.
- Replacement of diesel footpath sweepers/scrubbers with electric driven equivalents.

Current Actions

Implementation of fleet booking system that will provide detailed fleet utilisation data, which will assist in shaping the future direction of Council's passenger vehicle fleet.

- 2015-17 | Responsibility – Infrastructure Services & Planning

Introduction of new specifications requiring Council's new heavy fleet vehicles to meet Euro 5 or Euro 6 standards for diesel vehicles (up from Euro 4/5).

- 2016-18 | Responsibility – Infrastructure Services & Planning

Investigate opportunities to improve fuel economy and vehicle performance through programs such as Eco Driver Program.

- 2017-18 | Responsibility – Infrastructure Services & Planning

Ongoing program to reduce Council's passenger fleet fuel costs and greenhouse gas emissions by increasing staff awareness of the benefits of smaller cars and use of diesel fuel.

- Ongoing | Responsibility – Infrastructure Services & Planning

Status

In Progress

In Progress

In Progress

Ongoing

Completed Actions

Collection of small plant and equipment utilisation data to inform future purchasing decisions.

Participation in three rounds of trials of electric cars with the Department of Transport.

✓
✓



Corporate Objective: TM – 1.4 Walking and Cycling Networks

Improve connectivity and accessibility of the walking and cycling networks throughout the municipality.

2020 TARGET

Increase Size of Shared User Network

BASELINE

**76.1 km Shared Paths |
39.4km On-road Bicycle Paths
(2010)**

PERFORMANCE

**112.8 km Shared Paths |
70.0 km On-road Bicycle Paths
(Oct 2017)**

ON TARGET

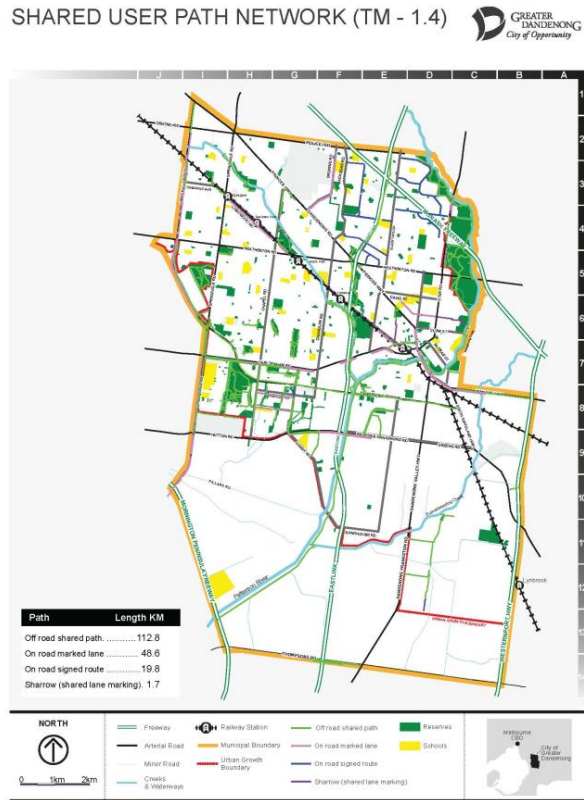


Figure TM – 1.4 shows where Council has expanded the Shared User Path and Bicycle Network by 3.16 km in 2016-17 to a total of 182.8 km.

In addition to improve connectivity and accessibility of walking and cycling networks within the municipality, in 2016-17 Council has:

- Adopted the Cycling Strategy 2016-23
- Invested \$250,000 in the expansion of the network
- Collaborated with other key stakeholders such as Vic Roads and the Level Crossing Removal Authority.

Figure TM – 1.4 Shared User Path Network



Refer to <http://sustainable.greaterdandenong.com>

Highlights

Adoption of the Greater Dandenong Cycling Strategy 2016-23.

New shared path on Heatherton Road between Olympic Avenue and Burden Park car park.

New Allan Street bridge shared user path connection over Dandenong Creek.

Two trial line marked bicycle lanes have been implemented in Dandenong connecting existing bicycle routes.

A 17 kilometre shared path for commuter and recreational cyclists and pedestrians will be delivered by the Level Crossing Removal Authority as part of the Caulfield to Dandenong project. Over 12 kilometres of new sections shared path will join existing paths to create a continuous route from Caulfield to the EastLink trail.

Current Actions

Deliver new paths through the Active Transport Infrastructure Priority Program in accordance with the Council's Guiding Design Principles for Walking and Bicycle Infrastructure.

- **Ongoing | Responsibility – Transport & Civil Development**

Status

Ongoing

Construction of Hammond Rd Bicycle Path between Logis Boulevard and Dandenong Bypass.

- **2017-18 | Responsibility – Transport & Civil Development**

In progress

Work with VicTrack to finalise detailed design for Dandenong Creek Shared User Path.

- **2016-18 | Responsibility – Transport & Civil Development**

In progress

Work with the Level Crossing Removal Authority (LXRA) on the design and construction of the Caulfield to Dandenong shared user path along the railway corridor.

- **2016-19 | Responsibility – Planning & Design + Transport & Civil Development**

In progress

Completed Actions

Construction of the Brady Road Shared User Path.

✓

Adoption of the Greater Dandenong Cycling Strategy 2016-23.

✓



Community Objective: TM – 2.1 Active Transport

Work with partners to encourage community to increase use of active travel – such as walking and cycling.

2020 TARGET

Aspire for a 20% increase

BASELINE

Residents Journeys to Work:
2.1% Walk | 0.6% Cycle (2006)

PERFORMANCE

Residents Journeys to Work:
1.9% Walk | 0.5% Cycle (2011)

OFF TARGET



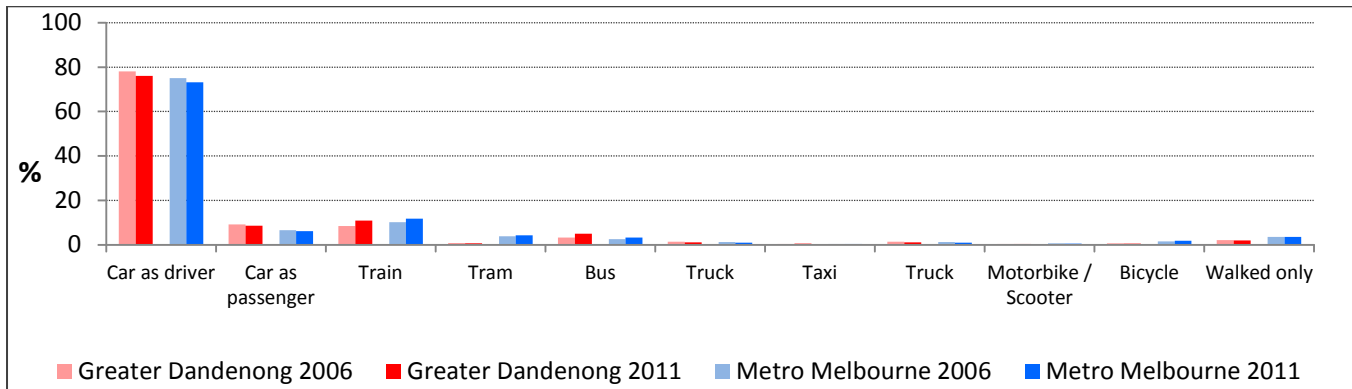
The private motor vehicle is the major mode of transport in Greater Dandenong. 2011 Census data indicates 85 out of 100 people travel to work by car (Metropolitan Melbourne Ave. 79.3 out of 100).

In 2011, Journey to work Census data in Greater Dandenong showed:

- 1.9 out of 100 people walked (Melb. Ave. 3.5 out of 100)
- 0.5 out of 100 people cycled (Melb. Ave. 1.8 out of 100)
- A decrease of 10% when compared 2006 Census data

A comparison of 2006 and 2011 census data indicates that the trend for journeys to work by residents of Greater Dandenong is for less reliance on cars, walking and cycling, but greater use of public transport.

Figure TM – 2.1 Mode of travel to work for Greater Dandenong residents (%) (ABS Census Data)



Highlights

- Adoption by Council of the Greater Dandenong Walking Strategy 2015-23.
- Adoption of the Greater Dandenong Cycling Strategy 2017-24.
- Six walking routes for schools launched between primary schools and local reserves.

Current Actions

Deliver new paths through the Active Transport Infrastructure Priority Program in accordance with the Council's Guiding Design Principles for Walking and Bicycle Infrastructure.

- **Ongoing | Responsibility – Transport & Civil Development + City Improvement**

Deliver Council's "Safe Walking Routes to School" program to encourage children to/from school from/to a nearby reserve to be picked up and dropped off.

- **2016-18 | Responsibility – Community Wellbeing**

Promotion of events such as 'Ride2School Day' and Ride2Work Day' events and activities such as local walking groups.

- **Ongoing | Responsibility – Community Wellbeing**

Advocate to external organisations such as Vic Roads and neighbouring municipalities to reduce the barriers to cycling.

- **Ongoing | Responsibility – Transport & Civil Development**

Require developments to include bicycle infrastructure as part of planning applications.

- **Ongoing | Responsibility – Planning & Design**

Status

Ongoing

In Progress

Ongoing

Ongoing

Ongoing

Completed Actions

- Development of Council's 2014 Green Travel Plan. ✓
- Adoption of new Road Safety Strategy. ✓
- Adoption of the Greater Dandenong Cycling Strategy 2016-23. ✓



Community Objective: TM – 2.2 Low Carbon and Public Transport

Work with partners to encourage the community to increase their use of low carbon and sustainable transport – such as public transport and electric vehicles.

2020 TARGET

Aspire for a 10% Increase

BASELINE

Residents Journeys to Work:
8.5% Train | 3.2% Bus (2006)

PERFORMANCE

Residents Journeys to Work:
10.9% Train | 5% Bus (2011)

EXCEEDS
TARGET



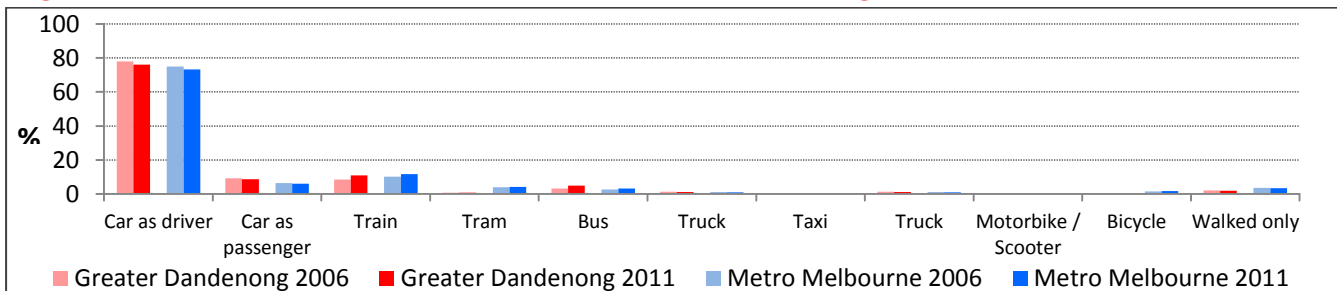
The private motor vehicle is the major mode of transport in Greater Dandenong. 2011 Census data indicates 85 out of 100 people travel to work by car (Metropolitan Melbourne Ave. 79.3 out of 100).

In 2011, Journey to work Census data in Greater Dandenong showed:

- 10.9 out of 100 people caught the train an increase of 28% when compared with 2006 Census data (2011 Melb Metro Ave. 11.7 out of 100)
- 5 out of 100 people caught a bus an increase of 56% when compared with 2006 Census data (2011 Melb Metro Ave. 3.3 out of 100)

A comparison of 2006 and 2011 census data indicates that the trend for journeys to work by residents of Greater Dandenong is for less reliance on cars and greater use of public transport.

Figure TM – 2.2 Mode of travel to work for Greater Dandenong residents (%) (ABS Census data)



Highlights

- New bus route 890 launched Nov. 2017 from Dandenong Station to Lynbrook Station, via Dandenong South.
- New bus route 790 launched Aug. 2017 from Noble Park Station to Mordialloc Station, via Keysborough South.
- Integrated Transport Plan 2017-2022 developed and awaiting adoption by Council.
- Municipal Parking Strategy 2017-2027 developed and awaiting adoption by Council.

Current Actions

Current Actions	Status
Seek adoption of the Greater Dandenong Integrated Transport Plan 2017-2022. ▪ 2017-18 Responsibility – Transport & Civil Development	In Progress
Update Travel Smart Maps for the municipality of Greater Dandenong. ▪ 2016-18 Responsibility – Community Wellbeing	In Progress
Finalisation of the Municipal Wide Parking Strategy 2017-2027. ▪ 2017-18 Responsibility – Transport & Civil Development	In Progress
Develop a policy regarding the provision of publicly available electric car charging facilities. ▪ 2017-18 Responsibility – Transport & Civil Development	In Progress
Develop a policy regarding the provision of publicly available car sharing facilities. ▪ 2017-18 Responsibility – Transport & Civil Development	In Progress
Work with the LXRA on the Caulfield to Dandenong level crossing removal project and the provision of the new Noble Park Station. ▪ 2016-19 Responsibility – Planning & Design + Transport & Civil Development	In Progress
Encourage developments to include low carbon transport options, such as car share scheme and electric vehicle charging stations as part of the planning process where appropriate. ▪ Ongoing Responsibility – Planning & Design	Ongoing

Completed Actions

Public Exhibition of the Draft Greater Dandenong Integrated Transport Plan 2017-2022.	✓
Public Exhibition of the Draft Municipal Wide Parking Strategy 2017-2027.	✓



Community Objective: TM – 2.3 Access to Public Transport

With our partners, work towards providing safe, connected and well serviced Public Transport options for the community within a walking distance of 400m.

2020 TARGET	
Increase % of Population (with Good Access)	
BASELINE	
34% Frequent Service 52% Less Frequent Service 14% No Service (2016)	
PERFORMANCE	
34% Frequent Service 52% Less Frequent Service 14% No Service within 400m (2016)	
ON TARGET	

Figure TM – 2.3 Proximity of residential properties to public transport

ACCESS TO PUBLIC TRANSPORT (TM- 2.3)

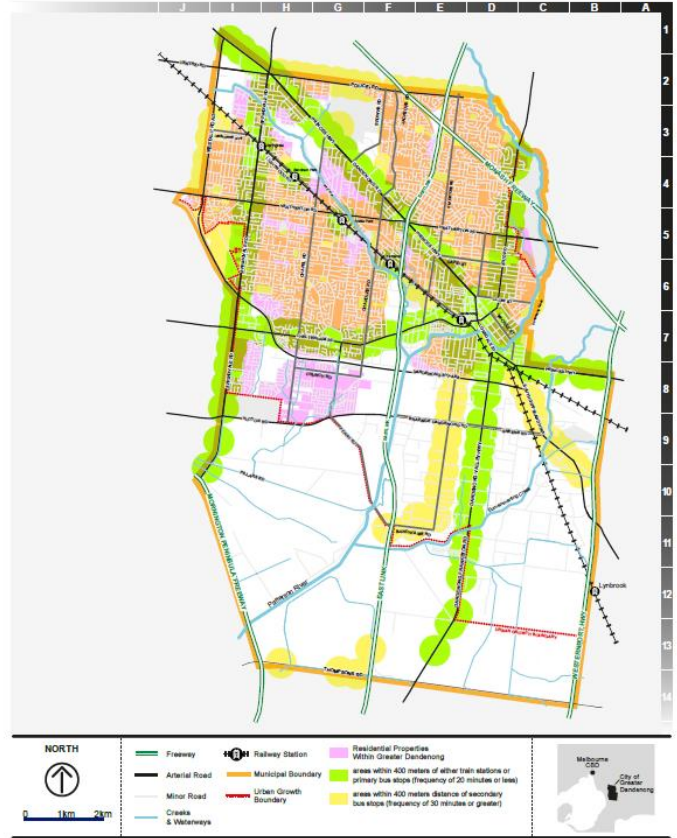


Figure TM – 2.3 shows:

- 34%** of residential properties occur within 400m of either a train station or primary bus stop (frequency of 20 minutes or less).
- 52%** of residential properties occur only within 400m of a secondary bus stop (frequency of 30 minutes or greater).
- 14%** of residential properties are not within 400m of either a train stop or bus stop.

Refer to <http://sustainable.greaterdandenong.com>

Highlights

- Design of new Noble Park Station on Pakenham / Cranbourne line as part of Level Crossing Removal Project.
- New bus route 890 launched Nov. 2017 from Dandenong Station to Lynbrook Station, via Dandenong South.
- New bus route 790 launched Aug. 2017 from Noble Park Station to Mordialloc Station, via Keysborough South.

Current Actions

- Work with the Level Crossing Removal Authority to achieve the best achievable outcomes for the local community from the Caulfield to Dandenong Project to improve capacity.
 - 2015-18 | Responsibility – Transport + Planning & Design
- Seek adoption of Integrated Transport Plan 2017-2022.
 - 2017-18 | Responsibility – Transport
- Implement actions identified in the Dandenong Railway Precinct Station Action Plan 2011-18, which aims to improve safety in and around the station.
 - Ongoing | Responsibility – Responsible Departments
- Ongoing advocacy for improved integrated transport in the region through the Eastern Transport Coalition and the South East Integrated Transport Group.
 - Ongoing | Responsibility – Transport

Status

- In Progress
- In Progress
- Ongoing
- Ongoing

Completed Actions

- Advocacy for a new bus route linking residents in the City of Casey and employment opportunities in Dandenong South. ✓



Community Objective: TM – 2.4 Planning

Where appropriate new developments within the city to incorporate best practice sustainable transport outcomes.



Research has shown that approximately 80% of Australian adults rely on their car to commute to work and cars account for approximately 50 percent of our total transport greenhouse gas emissions.

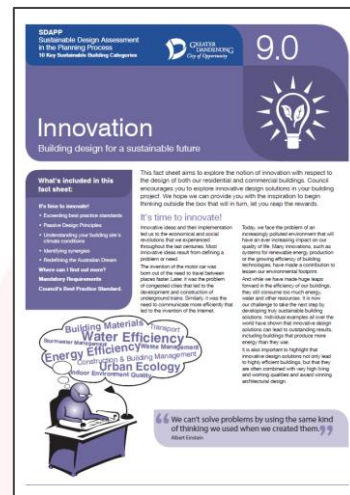
Council uses the Sustainable Design Assessment in the Planning Process (SDAPP) and Built Environment Sustainability Scorecard (BESS) to assess the sustainability of development planning applications.

Council assessed the Environmentally Sustainable Design (ESD) credentials of 67 new development applications in 2016-17 that met the SDAPP trigger level criteria for medium and large applications (shown in Figure BO – 2.4a). This equalled 60% of medium and large applications, and 20% of all new development applications.

To help address these issues Council uses the SDAPP Fact Sheets – see Figure BO-2.4b:

- Transport
- Innovation

Figure TM – 2.4b Transport and Innovation SDAPP Fact Sheets



Highlights

Launch of the Built Environment Sustainability Scorecard (BESS).

Current Actions

Preparation of Local ESD Planning Policy for the Greater Dandenong Planning Scheme.

- **2016-18 | Responsibility – Planning & Design**

Encourage developments to include low carbon transport options, such as car share scheme and electric vehicle charging stations as part of the planning process where appropriate.

- **Ongoing | Responsibility – Planning & Design + Infrastructure Planning**

Use the SDAPP framework and BESS assessment tool to assess planning applications.

- **Ongoing | Responsibility – Planning & Design**

Status

In Progress

Ongoing

Ongoing

Completed Actions

Development and launch of SDAPP Fact Sheets for Greater Dandenong.



Training of Council Planning Staff on the SDAPP process and BESS tool.





Community Objective: TM – 2.5 Awareness

Increase community awareness on the benefits of sustainable transport options.

2020 TARGET
Monitor and Report
BASELINE
Existing Programs
PERFORMANCE
Existing Programs
ON TARGET

There is a direct correlation between the liveability of an area and access to key services such as public transport.

Council is working to help both residents and businesses gain a better understanding on the benefits of adopting sustainable transport options.

For example, if there is an increase in the demand for public transport, this will help Council advocate for accessible and frequent public transport options in Greater Dandenong.

Council is well placed to influence a number of the factors that contribute to maintaining a healthy environment that enables walking and cycling for both transport and recreational purposes across the municipality. Recognising this, Council has included promotion as part of the key themes in both the recently adopted Walking and Cycling Strategies.

Figure TM – 2.5 Council's Walking & Cycling Strategies include a focus on promotion and awareness.



Theme 1. People - To improve the walking culture and behaviour in Greater Dandenong, Council will continue to educate, promote and raise the profile of walking



Theme 1. People - Council will continue to promote activities and the benefits of cycling to encourage and improve the cycling culture in Greater Dandenong.

Highlights

- Six walking routes for schools launched between primary schools and local reserves.
- Adoption of the Greater Dandenong Cycling Strategy 2017-24.

Current Actions

	Status
Use Council's website, publications and social media to promote benefits of sustainable transport. <ul style="list-style-type: none"> Ongoing Responsibility – Communications & Customer Service 	Ongoing
Ongoing implementation of the Greater Dandenong Cycling Strategy 2017-24 to promote activities and benefits of cycling. <ul style="list-style-type: none"> Ongoing Responsibility – Sport & Recreation + Community Wellbeing 	Ongoing
Ongoing implementation of the Greater Dandenong Walking Strategy 2015-23 to educate, promote and raise the profile of walking. <ul style="list-style-type: none"> Ongoing Responsibility – Sport & Recreation + Community Wellbeing 	Ongoing
Update Travel Smart Maps for Greater Dandenong Municipality. <ul style="list-style-type: none"> Ongoing Responsibility – Community Development, 	Ongoing
Run 'Share the Road Campaign' to promote road user respect – especially pedestrians and cyclists <ul style="list-style-type: none"> 2017-18 Responsibility – Transport 	In Progress
Prepare sustainable transport advocacy material for joint promotion through the Eastern Transport Coalition's advocacy campaign. <ul style="list-style-type: none"> 2017-18 Responsibility – Transport 	In Progress

Completed Actions

- Adoption of the Greater Dandenong Cycling Strategy 2017-24 in May 2017.



CLIMATE & ENERGY



Imagine a Low Carbon City that is run from renewable energy, has a minimal carbon footprint, causes minimal damage to the planet and is affordable, attractive, liveable and sustainable.

OUR GOAL: A LOW CARBON CITY

Background

The global climate is changing. The average temperatures in Australia have increased by around 0.9 degrees Celsius since 1910. Human induced greenhouse gases (GHG) emissions are considered to be the dominant cause of the observed global warming since the mid-20th century.

Council has established climate change and energy related objectives to greenhouse gas emissions, save money, improve performance of buildings, increase uptake of renewables and increase resilience to a changing climate.

Corporate Objectives

Performance Indicator

CE – 1.1 Carbon Emissions	21% Reduction 11,619t CO2e (2016)	
CE – 1.2 Energy Efficiency	Gas. 42% Reduction – 3,704 GJ Elec. 11% Reduction – 9,631 MW (2016)	
CE – 1.3 Low Carbon and Renewable Energy	Commitment to install 200 kWh	
CE – 1.4 Climate Change	Existing Policies and Strategies	

Community Objectives

Performance Indicator

CE – 2.1 Carbon Emissions	Limited Data	NOT AVAILABLE
CE – 2.2 Energy Efficiency	Elec. 14.2 kWh per household per day Gas Data Not Available (2017)	
CE – 2.3 Renewable Energy	94% increase in the community's solar kW capacity since 2013 (July 2017)	
CE – 2.4 Planning	20% of Development Applications (2016-17)	
CE – 2.5 Awareness	Existing Programs	



Corporate Objective: CE – 1.1 Carbon Emissions

Reduce Council's CO₂e emissions from street lighting, buildings and facilities.

2020 TARGET

At least 20% Reduction

BASELINE

14,880t CO₂e (2007)

PERFORMANCE

21% Reduction | 11,619t CO₂e (2016)

EXCEEDS
TARGET



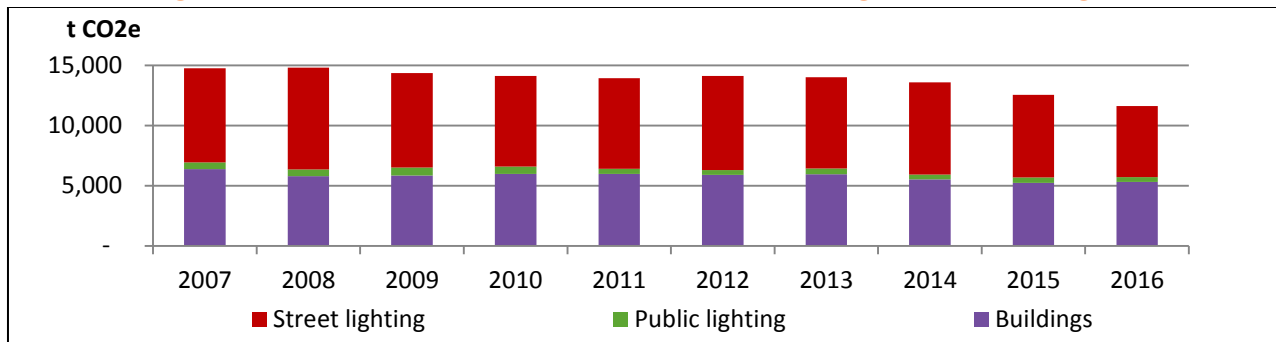
In 2016 greenhouse gas emissions from Council's street lights, buildings and other facilities were calculated to be 11,619 tonnes of carbon dioxide equivalent emissions (t CO₂e). This is a reduction of over 21% against the baseline of 14,880 t-CO₂e in 2007.

Recent key measures to reduce emissions include:

- Lighting Up Greater Dandenong – a project that has resulted in the changing over of around 7,000 street lights to energy efficient LED lighting technology, resulting in significant reductions in energy, CO₂e emissions and \$\$\$.
- Energy audits undertaken across 18 of council's highest energy using buildings to identify opportunities to reduce energy use and opportunities for use of renewable energy.

Please note: The generation of electricity in Victoria is increasingly less reliant on brown coal. As a result, greenhouse gas emissions for purchasers of electricity in Victoria have decreased by around 10% between 2007-08 and 2015-16. This factor combined with Council's reduction in energy usage have contributed to the total reduction in Council's CO₂e emissions.

Figure CE – 1.1 Council – CO₂e Emissions (Buildings and Street Lights)



Highlights

- Lighting Up Greater Dandenong project continues to install energy efficient LED streetlights.
- Development of Building Energy Management Plan, based on outcomes of energy audits of 18 of Council's buildings.
- Development of a Draft Sustainable Building Policy for the design, construction and operation of Council's buildings.

Current Actions

Current Actions	Status
Springvale Community Hub to be built to achieve the 5 Star Green Star Standard. ▪ 2016-19 Responsibility – City Improvement	In Progress
Seek adoption of a Sustainable Buildings Policy for Council buildings. ▪ 2016-18 Responsibility – Planning & Design + City Improvement	In Progress
Partner with SECCCA and other Councils on projects that reduce CO ₂ emissions. ▪ Ongoing Responsibility – Planning & Design + City Improvement	Ongoing
Implement the Energy Management Plan for Council Buildings. ▪ Ongoing Responsibility – City Improvement	Ongoing
Installation LED streetlights as part of Council's Lighting Up Greater Dandenong project. ▪ Ongoing Responsibility – City Improvement	Ongoing

Completed Actions

Energy Audits of 18 Council Buildings considered being high energy users.	✓
\$400,000 invested in 2016-17 in energy efficient LED streetlights.	✓



Corporate Objective: CE – 1.2 Energy Efficiency

Reduce the energy consumption of Council assets – includes buildings and street lights.

2020 TARGET
At least 20% Reduction
BASELINE
Gas 6,371 GJ Elec. 10,922 MW (2007)
PERFORMANCE
Gas. 42% reduction – 3,704 GJ Elec. 11% reduction – 9,631 MW (2016)
ON TARGET

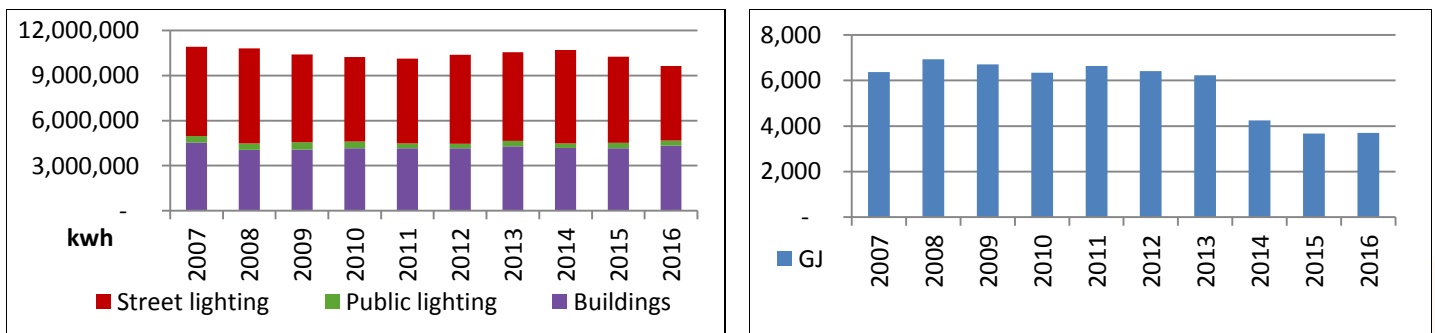
Energy usage by Council's street lights, buildings and other facilities (where Council pays the utility bills) for 2016 was:

- Gas – 3,703 GJ (42% reduction against 2007 baseline)
- Electricity – 9,631 MW (11% reduction against 2007 baseline).

Recent key measures to reduce energy consumption include:

- Completion of energy audits at 18 of Council's highest energy using buildings which have informed a Building Energy Management Plan.
- \$400,000 invested in 2016-17 in energy efficient streetlights upgrades as part of Council's Lighting Up Greater Dandenong.

Figure CE – 1.2 Council – Electricity (kwh) and Gas (GJ) Consumption



Highlights

- Lighting Up Greater Dandenong project continues to install energy efficient LED streetlights.
- Development of Energy Management Plan for Council Buildings.
- Preparation of a draft Sustainable Building Policy for the design, construction and operation of Council's buildings.

Current Actions

Current Actions	Status
Springvale Community Hub to be built to achieve Zero Net Emissions. ▪ 2016-18 Responsibility – City Improvement	In Progress
Seek adoption of the Sustainable Buildings Policy for Council buildings. ▪ 2016-18 Responsibility – Planning & Design + City Improvement	In Progress
Implement the Energy Management Plan for Council Buildings. ▪ Ongoing Responsibility – City Improvement	Ongoing
Installation of LED streetlights as part of Council's Lighting Up Greater Dandenong project. ▪ Ongoing Responsibility – City Improvement	Ongoing
Incorporate energy efficiency requirements in specifications for building plant and equipment. ▪ Ongoing Responsibility – City Improvement	In Progress

Completed Actions

Energy efficiency measures included as part of the Springvale Town Hall upgrade.	✓
Energy Audits of 18 Council Buildings considered being high energy users.	✓
\$400,000 invested in 2016-17 in energy efficient LED streetlights.	✓



Corporate Objective: CE – 1.3 Low Carbon and Renewable Energy

Increase the percentage of energy consumed by Council obtained from renewable sources.

2020 TARGET
Install 250 kWh by 2020
BASELINE
5 kW* (Estimate 2016)
PERFORMANCE
Commitment to install 250 kWh
ON TARGET

Across Council's facilities solar photovoltaic (pv) systems have been installed at:

- Yarraman Centre
- Keysborough Senior Citizens Club.

***Estimated to be 5kw capacity in total.**

Solar hot water systems have been installed at:

- Yarraman Centre
- Operations Centre
- Noble Park Aquatic Centre (a large system)
- Springers Leisure Centre
- Dandenong North Senior Citizens Club.

There is planned to be a significant increase in the uptake of solar pv systems across council facilities by 2020 as a result of:

- The Springvale Community Hub development – which includes a 200kW solar pv system
- This year's Capital Works Program – which has provision for \$100,000 for the installation of solar pv.
- The adoption of Council's Sustainable Buildings Policy.

The energy audits of 18 of Council's highest energy using buildings identified further opportunities for the installation of solar pv systems, and will be considered as part of future capital works programs.

Figure CE – 1.3 Low Carbon and Renewable Energy Initiatives



Highlights

Springvale Community Hub to install minimum 200kW PV system and become a Zero Net Emission building. Consideration of renewable energy as part of the development of the Energy Management Plan for Council's buildings.

Current Actions

	Status
Springvale Community Hub to use minimum 5 Star Green Star Design and As-Built Standard.	In Progress
▪ 2016-18 Responsibility – City Improvement + Planning & Design	
Seek adoption of the Sustainable Buildings Policy for the design and construction of Council buildings.	In Progress
▪ 2016-18 Responsibility – Planning & Design + City Improvement	
Design and installation of solar panels as part of Council's 2017-18 Capital Works Program.	Not Started
▪ 2017-18 Responsibility – City Improvement	
Develop a business case for ongoing support for installation of renewable energy through Capital Works Program based on outcomes of energy audit of 18 of Council's highest energy using buildings.	Not Started
▪ 2017-18 Responsibility – Planning & Design + City Improvement	

Completed Actions

Energy Audits of 18 Council Buildings identified opportunities for installation of PV systems. ✓



Corporate Objective: CE – 1.4 Climate Change

Develop and implement a Climate Change Strategy for Council and the City of Greater Dandenong.

2020 TARGET
Climate Change Strategy
BASELINE
Existing Policies and Strategies
PERFORMANCE
Existing Policies and Strategies
ON TARGET 

The Council Plan 2017-21 identifies the creation of a Climate Change Strategy as a key action to prepare for climate change.

The 2015 Risk Management Policy outlines Council's commitment to identifying and managing risks associated with the delivery of services.

The new Climate Change Strategy will support a key objective in Council's 2014-18 Risk Management Strategy:

'Continually monitor and review risk management to ensure we recognise and respond to change and all staff will be in a position to confidently plan and make informed, strategic, business and operational decisions'.

It will be informed by the Victorian Government's Climate Change Framework, which outlines key mitigation and adaptation measures for both state and local governments.

Figure CE – 1.4 Plans and Strategies Linked to Climate Change



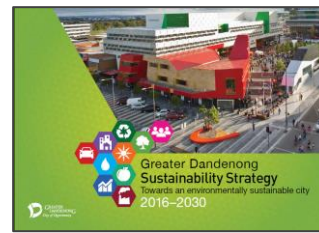
2017-21 Council Plan



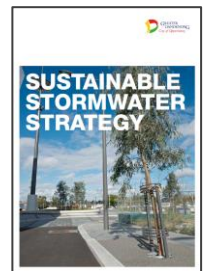
Community Wellbeing Plan



Risk Management Strategy 2014 - 2018



2016-30 Sustainability Strategy



Draft 2016 Sustainable Stormwater Strategy

Current Actions	Status
Adoption of the Draft Sustainable Stormwater Strategy. <ul style="list-style-type: none"> 2017-18 Responsibility – Infrastructure Services & Planning 	In Progress
Ongoing management of risk through Council's Risk Management Policy and Strategy. <ul style="list-style-type: none"> Ongoing Responsibility – People & Procurement Services 	Ongoing
Develop a Climate Change Strategy for Council and City of Greater Dandenong. <ul style="list-style-type: none"> 2017-20 Responsibility – Planning & Design + People & Procurement Services 	Not Started
Work with United Energy and other key stakeholders to improve community emissions data. <ul style="list-style-type: none"> 2016-18 Responsibility – Planning & Design 	In Progress

Completed Actions	Status
Public exhibition of the Draft Sustainable Stormwater Strategy.	✓
Energy Audits of 18 Council Buildings and creation of an Energy Management Plan.	✓
Community electricity usage data provided by United Energy.	✓
Community Resilience Program with Department of Health and Human Services, Arup and Enliven.	✓



Community Objective: CE – 2.1 Carbon Emissions

Engage, advocate and empower the community to enable the reduction of CO₂e emissions from the built environment.

2020 TARGET
Aspire for a 10% Reduction
BASELINE
24.5 kg CO ₂ e per household per day (Victoria – 2007)*
PERFORMANCE
Limited Data
NOT AVAILABLE

The average Victorian household's energy bill is estimated to have increased by nearly 70% since 2007 to \$2,800 in 2013*. Efforts to help residents and businesses reduce energy consumption will help reduce CO₂ emissions.

Combining data on household energy consumption released in 2007 by the Victorian Government with the 2007 National CO₂ Emission Factors* from Federal Government provides:

- Average Victorian Household CO₂ emissions 24.5 kg CO₂e per day (includes electricity and gas consumption)

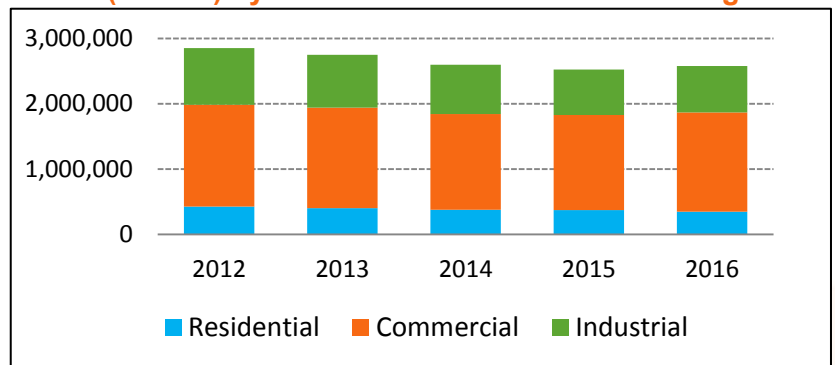
*Victorian Household Energy Consumption Report 2014, Sustainability Victoria
 ^National Greenhouse (Emission) Factors (2008), Department Climate Change

Figure CE–2.1a Average Victorian Household CO₂ Emissions*^



24.5kg CO₂e per day Household Emissions (Victorian Average – 2007)

Figure CE–2.1b Electricity related GHG Emissions (t-CO₂e) by Sector within Greater Dandenong⁺



2016 Electricity related GHG Emissions:

Residential 13.5% | Commercial 59% | Industrial 27.5%

⁺Electricity usage data provided by United Energy.
 *CO₂e conversion factors from NGERs Reports.

Highlights

Work with SECCCA on the Victorian Government's Residential Efficiency Scorecard for local houses.
 Provision by United Energy of community electricity usage data for the municipality.

Current Actions

Current Actions	Status
Work with SECCCA to develop and implement programs to reduce community CO ₂ e emissions. ▪ Ongoing Responsibility – Planning & Design	Ongoing
Promote reduction of CO ₂ emissions through website, publications, events and programs. ▪ Ongoing Responsibility – Communications & Customer Service + Planning & Design	Ongoing
Develop a Climate Change Strategy for Council and City of Greater Dandenong. ▪ 2017-20 Responsibility – Planning & Design + People & Procurement Services	Not Started
Work with United Energy and other key stakeholders to improve regional data availability. ▪ 2016-18 Responsibility – Planning & Design	In Progress
Work with key stakeholders to identify opportunities to reduce community CO ₂ e emissions. ▪ Ongoing Responsibility – Planning & Design	Ongoing

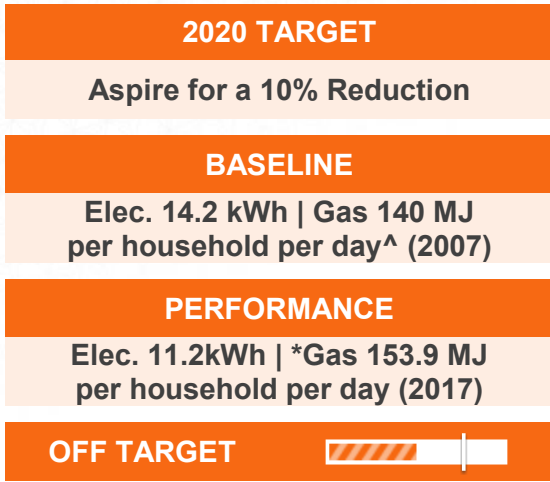
Completed Actions

The City of Greater Dandenong applied (but was unsuccessful) for funds through Sustainability Victoria's Energy Efficiency Capability Grants program to work with local businesses. ✓



Community Objective: CE – 2.2 Energy Efficiency

Help the community reduce energy consumption within the built environment.



The average Victorian household's energy bill is estimated to have increased by nearly 70% since 2007 to \$2,800 in 2013*. It should be noted that community data on average annual energy consumption is limited:

Data released in 2009^ by the Victorian Government identified that the average household in Greater Dandenong's:

- Electricity usage was 14.2 kWh per day
- Gas usage was 140 MJ per day.

Data provided by United Energy for residential customers in Greater Dandenong indicates that in 2016:

- Average electricity usage was 11.2 kWh per day.

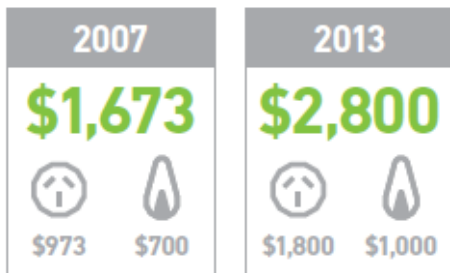
Estimated average gas usage is 153.9MJ per day (or a converted 42.7 kWh per day).

*Victorian Household Energy Consumption Report 2014, Sustainability Victoria

^2009 Department of Sustainability and Environment Report – Household energy usage – Greater Dandenong

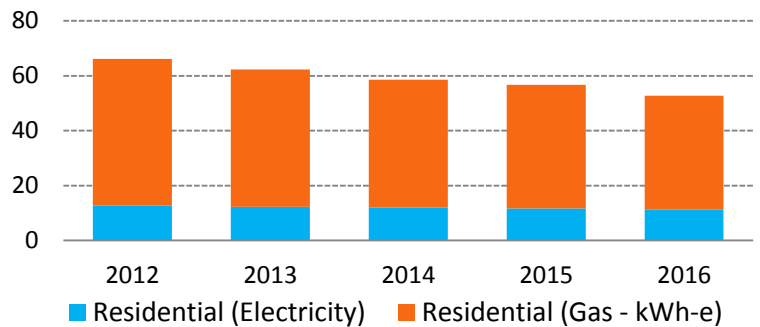
Figure CE – 2.2 Energy Use for Average Households*

Cost of Household Gas and Electricity



* Source: The Victorian Households Energy Report, Sustainability Victoria, 2014

Ave. Daily Household Gas + Electricity Consumption kWh / household / day



* Source: United Energy residential customers in Greater Dandenong (2016)

Highlights

Launch of the Built Environment Sustainability Scorecard (BESS), which Council uses to assess the overall environmental sustainability performance of new buildings as part of the planning process.

Current Actions

Current Actions	Status
Assess the environmental performance of new buildings as part of the planning process. <ul style="list-style-type: none"> ▪ Ongoing Responsibility – Planning & Design 	Ongoing
Promote energy efficiency through website, publications, events and programs. <ul style="list-style-type: none"> ▪ Ongoing Responsibility – Communications & Customer Service + Planning & Design 	Ongoing
Work with United Energy and other key stakeholders to improve regional community data availability and identify opportunities to reduce energy consumption. <ul style="list-style-type: none"> ▪ 2016-18 Responsibility – Planning & Design 	In Progress
Develop Local ESD Planning Policy for the Greater Dandenong Planning Scheme. <ul style="list-style-type: none"> ▪ 2016-18 Responsibility – Planning & Design 	Started
Promote EUA's to local businesses to facilitate a building upgrade to improve energy efficiency. <ul style="list-style-type: none"> ▪ 2017-19 Responsibility – Economic Development Unit + Planning & Design 	In Progress

Completed Actions

The City of Greater Dandenong applied (but was unsuccessful) for funds through Sustainability Victoria's Energy Efficiency Capability Grants program to work with local businesses. ✓



Community Objective: CE – 2.3 Renewable Energy

Help the community increase use of renewable energy.

2020 TARGET

Increase Community Solar kW Capacity

BASELINE

11,979 kW (2013)

PERFORMANCE

94% increase in the community's solar kW capacity since 2013 (July 2017)

ON TARGET



The recorded rated solar capacity (kW) for postcodes that occur within Greater Dandenong* was 23,240 kW as of 1 July 2017. This is a 94 per cent increase on the 11,979 of rated solar kW capacity at the end of 2013.

Dandenong (37 per cent) has the highest rated kW output, followed by Springvale (including Springvale South) with 23 per cent.

The total rated kW output of solar panels systems installed in Greater Dandenong across residential and non-residential properties is similar to the municipalities of Kingston and Monash. Frankston and Casey have higher solar kW capacity.

Figure CE – 2.3a Solar panel capacity (kW) across Greater Dandenong by postcode*

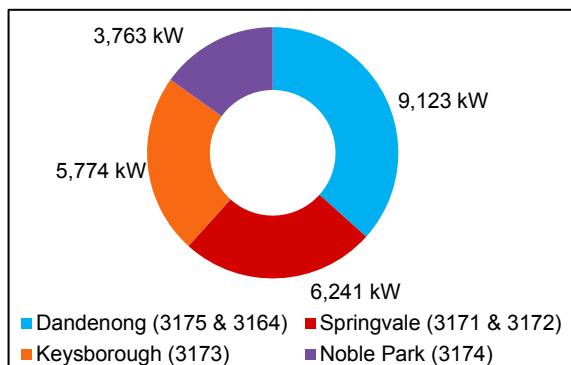
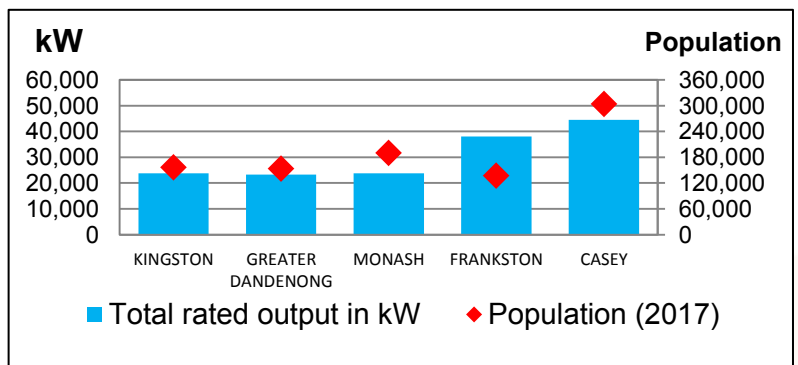


Figure CE – 2.3b Solar Panel Capacity (kW)* & Population of Greater Dandenong and other Councils



*Source: Clean Energy Regulator's Postcode data for small scale Solar PV installations – as at 1/ 07/ 2017.

Highlights

The City of Greater Dandenong is working with the Sustainable Melbourne Fund to provide Environmental Upgrade Agreements (EUA's) for local businesses within the municipality.

The City of Greater Dandenong is working with other South East Councils Climate Change Alliance (SECCCA) members to prepare a business case for the development of a zero emission strategy for the region.

Current Actions

Action	Status
Development of a Climate Change Strategy for Council and City of Greater Dandenong. ▪ 2017-20 Responsibility – Planning & Design + People & Procurement Services	Not Started
Promote EUA's to local businesses to facilitate a building upgrade to improve energy efficiency, including increased uptake of renewable energy. ▪ 2017-19 Responsibility – Economic Development Unit + Planning & Design	In Progress
Promote increased uptake of renewable energy through Council's website, publications, events and programs. ▪ Ongoing Responsibility – Media & Communications + Planning & Design	Ongoing
Work with SECCCA and other key stakeholders to encourage the uptake of renewable energy across municipality and region. ▪ Ongoing Responsibility – Planning & Design	Ongoing

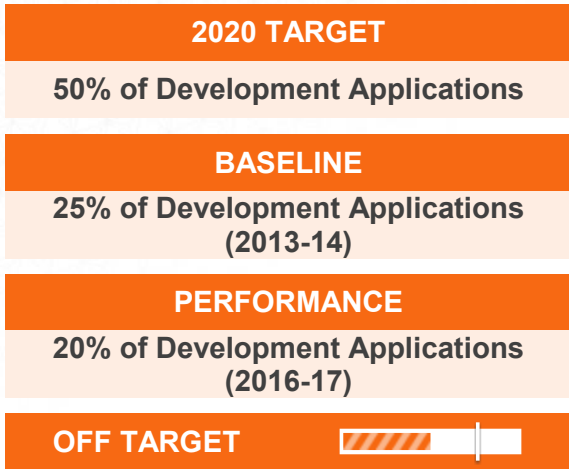
Completed Actions

Signing of agreement with the Sustainable Melbourne Fund to introduce Environmental Upgrade Agreements for local businesses. ✓



Community Objective: CE – 2.4 Planning

Help the community to incorporate best practice energy initiatives through the planning process.



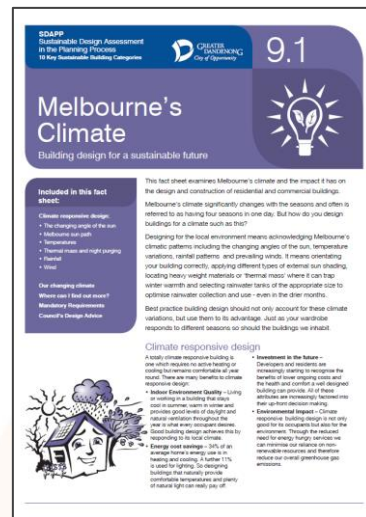
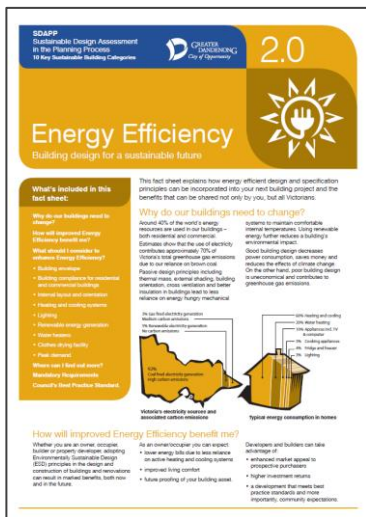
Around 40% of the world's energy resources are used in our buildings – both residential and commercial.

While good building design decreases power consumption, saves money and reduces the effects of climate change, poor building design is uneconomical and contributes to greenhouse gas emissions.

Council uses the Sustainable Design Assessment in the Planning Process (SDAPP) and Built Environment Sustainability Scorecard (BESS) to assess the sustainability of development planning applications.

In 201-17 Council assessed the Environmentally Sustainable Design (ESD) credentials of 67 development applications. This equals 20% of all new development applications and 60% of new development applications that meet the SDAPP trigger levels in Greater Dandenong.

Figure CE – 2.4b Energy Efficiency and Melbourne's Climate SDAPP Fact Sheets



Highlights

Launch of the Built Environment Sustainability Scorecard (BESS).

Current Actions

Preparation of Local ESD Planning Policy for the Greater Dandenong Planning Scheme.

- 2016-18 | Responsibility – Planning & Design

Use the SDAPP framework and BESS assessment tool to assess planning applications.

- Ongoing | Responsibility – Planning & Design

Status

Started

Ongoing

Completed Actions

Customisation of SDAPP Fact Sheets for Greater Dandenong. ✓



Community Objective: CE – 2.5 Awareness

Work with partners to increase community awareness on the benefits of energy efficiency and renewables.

2020 TARGET
Monitor and Report
BASELINE
Existing Programs
PERFORMANCE
Existing Programs
ON TARGET 

For the city of Greater Dandenong to achieve its goal of becoming a Low Carbon City, the required changes to policies, practices and technology will need to be accepted and embraced by the community.

As Council's resources are limited, working with partners enables Greater Dandenong Council to undertake a much wider range of activities to engage with the community on energy efficiency and renewables than its resources would otherwise allow.

Figure CE – 2.5a Community Awareness



2017 Sustainability Festival

Figure CE – 2.5b Council Partners in 2017



Note: Council does not have a dedicated Community Awareness program for Climate Change.

Highlights

- Delivery of the 2016-17 Greater Dandenong Sustainability Festival and Awards.
- Launch of CASBE's Built Environment Sustainability Scorecard (BESS), which Council uses to assess the overall environmental sustainability performance of new buildings as part of the planning process.

Current Actions

	Status
Delivery of the Greater Dandenong Sustainability Festival and Awards in 2017-18.	Started
<ul style="list-style-type: none"> Ongoing Responsibility – Planning & Design 	
Promote benefits of adapting to climate change and reducing carbon emissions in CGD publications.	Ongoing
<ul style="list-style-type: none"> Ongoing Responsibility – Media and Communications + Planning & Design 	
Use CASBE's SDAPP framework and BESS assessment tool to assess planning applications.	Ongoing
<ul style="list-style-type: none"> Ongoing Responsibility – Planning & Design 	
Work with United Energy and Multinet Gas to identify opportunities to reduce energy consumption.	In Progress
<ul style="list-style-type: none"> 2016-18 Responsibility – Planning & Design 	
Promote EUA's to local businesses to facilitate a building upgrade to improve energy efficiency.	In Progress
<ul style="list-style-type: none"> 2017-19 Responsibility – Economic Development Unit + Planning & Design 	
Work with SECCCA to develop and implement programs to reduce community CO2e emissions.	Ongoing
<ul style="list-style-type: none"> Ongoing Responsibility – Planning & Design 	

Completed Actions

Customisation of SDAPP Fact Sheets for Greater Dandenong.	✓
2016-17 Sustainability Festival and Awards.	✓
Made a pledge as part of the Victorian Government's Take2 program – the state's collective climate change program.	✓



BUILDINGS & PLACES



Imagine a City that's been planned, designed and built to accommodate the community's future needs, a city that's been created to reflect a sense of place that's unique to the community, a city that performs environmentally, socially and economically.

OUR GOAL: A CITY PLANNED FOR THE FUTURE

Background

The construction and operation of our buildings has a significant impact on our natural resources. They consume 32% of the world's resources, including 12% of the water we consume and the generation of around 40% of all CO2 emissions. Buildings that are sustainably designed, constructed and operated may achieve substantial financial savings and have significant social and environmental benefits, when compared to conventional buildings.

Council has established objectives and targets that will help reduce energy and water consumption, help reduce carbon emissions, and make our households and businesses more sustainable. These measures will also help reduce ongoing operational costs and help increase the health and wellbeing of both residents and workers.

Corporate Objectives

Performance Indicator

BP-1.1 Sustainability of Existing Buildings	Energy: 5% Decrease 4,327 (MWh) (2016) Water: 19% Decrease 29.9ML (2016-17)	
BP-1.2 Sustainability of New Buildings	Development of Draft Council Sustainable Buildings Policy	
BP-1.3 Building Performance	Energy: 43% increase (2016) Water: 250% increase (2016-17)	

Community Objectives

Performance Indicator

BP-2.1 ESD – Existing Buildings	Water - 336 Litres Energy – 53 kWh (2016-17)	
BP-2.2 Places (Place Scores)	Highest – 74 / 100 Harmony Square (Dandenong) Lowest – 29 / 100 Post Office Lane (Springvale)	
BP-2.3 Walkability (Walkscore)	Dandenong – 64 Springvale – 66 Noble Park – 48 Keysborough – 49	
BP-2.4 Planning	20% of Development Applications (2016-17)	
BP-2.5 Awareness	Existing Programs	



Corporate Objective: BP – 1.1 Sustainability of Existing Buildings

Enhance energy and water efficiency of Council buildings.

2020 TARGET	
Reduce Energy and Water Use by 20%	
BASELINE	
4,546 MWh (2007) 37ML/year (2006-07)	
PERFORMANCE	
Energy: 5% Decrease - 4,327 MWh (2016)	Water: 19% Decrease - 29.9ML (2016-17)
OFF TARGET	

For buildings that Council pays the energy and water accounts:

Energy usage was 4,327 MWh in 2016

- 5% decrease against the 2007 baseline of 4,546 MWh
- 5% increase compared to 4,165 MWh used in 2015.

Potable water usage was 29.9 Megalitres (ML) in 2016-17

- 19% decrease against the 2006-07 baseline of 37 ML
- 20% decrease compared to 38ML used in 2015-16

Recent key measures to identify and reduce Council buildings energy and water consumption include:

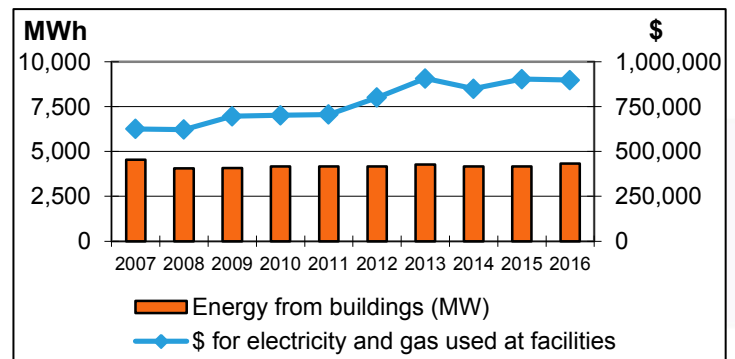
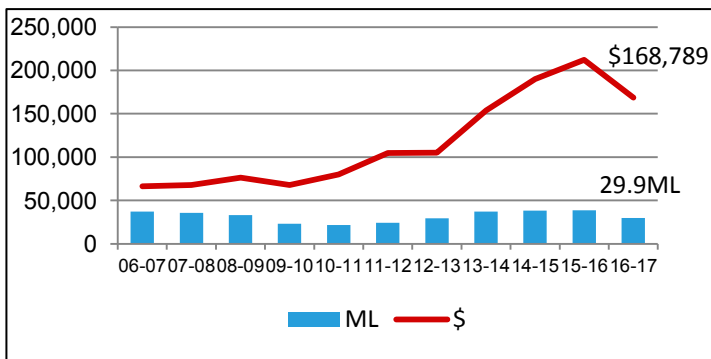
- Development of a Draft Sustainable Buildings Policy
- Energy audits at 18 of the highest energy using buildings.

Note:

Council's focus on optimising usage of its community facilities through measures such as increasing library opening hours will have increased these facilities utility usage.

The 50:50 splitting of some water bills for a number of Council buildings that share water meters with sports fields can inflate these buildings water use in years of high irrigation. It is recommended that Council invest in water meters for these buildings to improve billing data accuracy.

Figure BP – 1.1 Water and Energy Consumption (Buildings)



Highlights

Development of Building Energy Management Plan, based on outcomes of energy audits of 18 of Council's buildings.
Preparation of Council's Draft Sustainable Building Policy, which aims to incorporate environmentally sustainable design principles into the design, construction, operation and management of Council's buildings.

Current Actions

Current Actions	Status
Springvale Civic Centre to be built to minimum 5 Star Green Star Design and As Built Standard. ▪ 2016-19 Responsibility – City Improvement	In Progress
Develop a Sustainable Buildings Policy for design and construction of Council buildings. ▪ 2016-18 Responsibility – Planning & Design + City Improvement	In Progress
Implement energy efficiency measures identified in Council's Building Energy Management Plan through Council's Capital Improvement Projects process. ▪ Ongoing Responsibility – City Improvement	Ongoing
Monitor and report on Council's energy usage and bills. ▪ Ongoing Responsibility – People & Procurement Services + City Improvement	Ongoing

Completed Actions

Energy audits undertaken across 18 of Council's highest energy using buildings.	✓
Energy efficiency measures included as part of the Springvale Town Hall upgrade, as well as at other Council facilities including Dandenong Oasis Aquatic Centre and the Clow Street offices.	✓



Corporate Objective: BP – 1.2 Sustainability of New Buildings

New Council buildings designed, constructed and operated to meet best practice Ecologically Sustainable Design (ESD) standards.



The draft Sustainable Buildings Policy sets ESD Best Practice as the minimum standard for all new Council buildings. It also provides ESD specific guidelines for all capital work projects.

Council owns over 296 buildings, valued in 2015 at around \$333M in which it has management and ownership responsibilities.

To support this, Council has developed the Asset Management Strategy of which a key objective is to achieve efficient management of Council buildings. The plan sets the strategic direction for Council buildings and assigns roles and responsibilities within Council.

Council's Building and Facilities Asset Management Plan Guiding Principles include that 'Buildings are to be environmentally efficient and sustainable'.

Figure BP – 1.2 New Council buildings with significant ESD Features



Greater Dandenong Civic Centre



Concept for the new Springvale Community Precinct Project.

Highlights

- Construction of Greater Dandenong Civic Centre – 5 Star Green Star rated building.
- Springvale Civic Centre to be built to minimum 5 star Green Star standard.
- Preparation of Draft Sustainable Building Policy that incorporate ESD principles for work on Council buildings.

Current Actions

Current Actions	Status
Develop a Sustainable Buildings Policy for design and construction of Council buildings. <ul style="list-style-type: none"> 2016-18 Responsibility – Planning & Design + City Improvement 	In Progress
Springvale Civic Centre to be built to minimum 5 star Green Star Design and As Built Standard. <ul style="list-style-type: none"> 2016-17 Responsibility – City Improvement 	In Progress
Monitor and report on the ESD performance of the Dandenong Civic Centre. <ul style="list-style-type: none"> Ongoing Responsibility – City Improvement 	Ongoing
Work with South East Councils Climate Change Alliance (SECCCA) to develop ESD Matrix to facilitate incorporation of sustainability outcomes as part of works on Council buildings. <ul style="list-style-type: none"> 2017-18 Responsibility – Planning & Design + City Improvement 	In Progress

Completed Actions

- Preparation of draft Sustainable Buildings Policy for Council owned and managed buildings. ✓



Corporate Objective: BP – 1.3 Building Performance

Reduce the operational cost and CO2 emissions from Council buildings.

2020 TARGET
Reduce Operational Costs Reduce CO2 Emissions
BASELINE
Energy Costs: \$625,640 (2007) Water Costs: \$66,425 (2006-07) CO2 Emissions: 6,397 t-CO2e (2007)
PERFORMANCE
Energy: 43% increase (2016) Water: 250% increase (2016-17) CO2 Emissions: 17% decrease (2016)
OFF TARGET

Energy and water charges from those buildings and facilities where Council is directly responsible for the payment of the bills:

- \$897,551 for energy in 2016
- \$168,789 for water in 2016-17.

This represents:

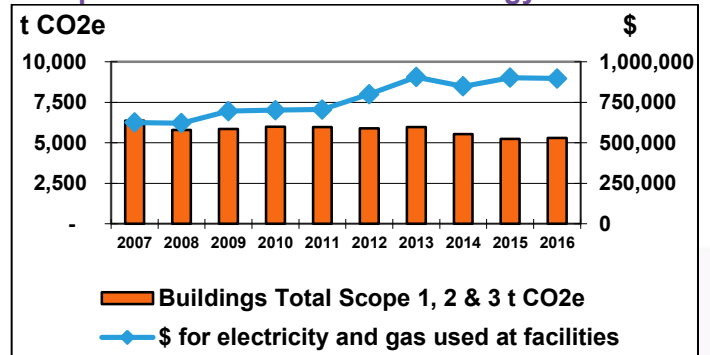
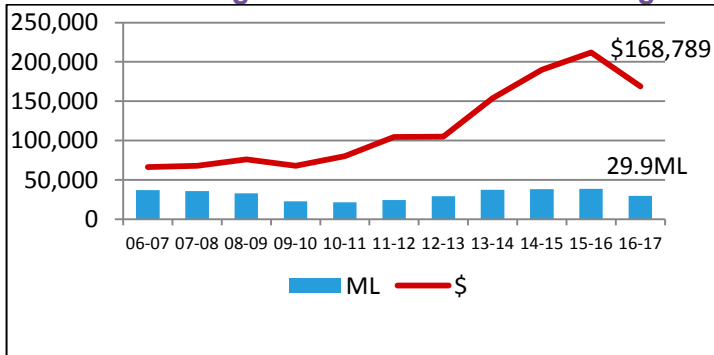
- 43% increase in charges for energy from 2007 to 2015
- 250% increase in charges for water from 2006-07 to 2015-16

While Council's focus on optimising usage of its buildings are a factor, these additional costs for energy and water are fundamentally a result of increased utility charges. Figure BP1.3 demonstrates that actual consumption has either remained relatively stable or reduced over the last 10 years.

It should be noted that energy usage emissions were 5,311t CO2e in 2016 - a 17% reduction based on the 6,397t CO2e emitted in 2007.

Energy audits undertaken in 2016-17 will inform Council's approach to reducing its energy usage and costs.

Figure BP – 1.3 Council buildings economic performance – Water and Energy



Highlights

- Development of Building Energy Management Plan, based on outcomes of energy audits of 18 of Council's buildings.
- Preparation of Draft Sustainable Building Policy that incorporate ESD principles for work on Council buildings.

Current Actions

Develop a Council Sustainable Buildings Policy that includes consideration of both upfront capital costs as well as ongoing operational costs.

- **2016-17 | Responsibility – City Improvement + Planning & Design**

Implement energy efficiency measures identified in Council's Building Energy Management Plan through Council's Capital Improvement Projects process.

- **2016-18 | Responsibility – City Improvement + Planning & Design**

Monitor and report on Council's energy and water usage.

- **Ongoing | Responsibility – People & Procurement Services + City Improvement**

Develop a business case for ongoing support for installation of renewable energy through Capital Works Program based on outcomes of energy audit of 18 of Council's highest energy using buildings.

- **2017-18 | Responsibility – Planning & Design + City Improvement**

Consideration of energy and water efficiency in update of Council's standard specifications for building plant and equipment.

- **2017-18 | Responsibility – City Improvement**

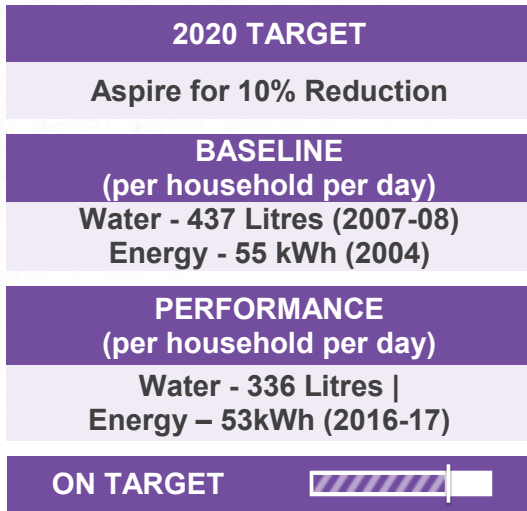
Completed Actions

Energy audits undertaken across 18 of Council's highest energy using buildings. ✓



Community Objective: BP – 2.1 Existing Buildings

With the support of key stakeholders, help the community reduce energy and water consumption in existing buildings.



According to a 2014 Sustainability Victoria report*, Victoria's existing housing stock represents the largest potential for energy saving and greenhouse abatement in the residential sector. This is because minimum energy efficiency standards for new houses in Victoria were first introduced in 1991 in the form of mandatory minimum insulation requirements.

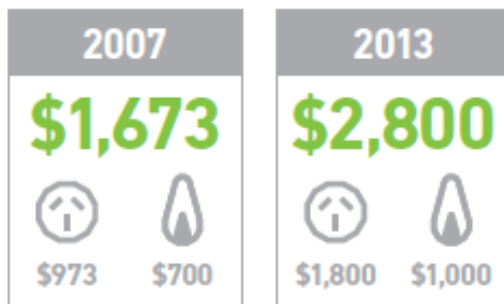
These standards were enhanced in 2005 with the introduction of the requirement for a minimum 5 Star Standard in energy efficiency based on a House Energy Rating (HER).

In 2011, these standards were further strengthened and increased to a minimum 6 Star rating. This rating applies to the building envelope: the roof, walls, floor, and windows. Houses with higher HERs are intended to be more naturally comfortable in winter and summer, and therefore easier and cheaper to heat and cool.

*Data on the average energy and water consumption of households in Greater Dandenong is not readily available. Council is working with the United Energy and South East Water to access this information for the municipality and individual suburbs.

Figure BP – 2.1 Existing Building

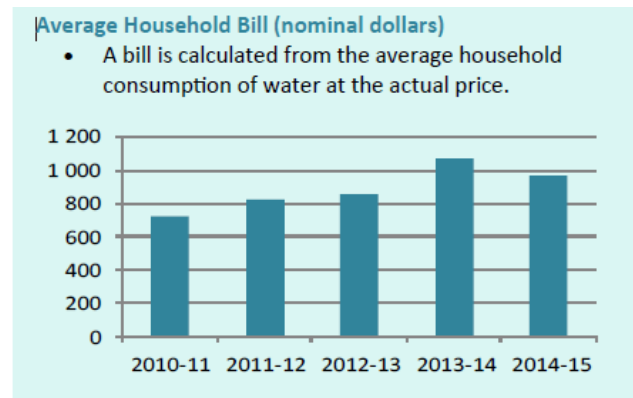
Victorian households average annual bill for household energy use in 2007 and 2013



Source: 2007 DHS Utility Consumption Survey, and 2013 is based on an estimate by Sustainability Victoria

Source: The Victorian Households Energy Report, Sustainability Victoria, 2014

South East Water customers average households water bill



Source: 2014-15 Water Performance Report South East Water – Fact Sheet

Highlights

- Work with SECCA on the Victorian Government's Residential Efficiency Scorecard for local houses.
- Provision by United Energy of community electricity usage data for the municipality.
- The City of Greater Dandenong working with the Sustainable Melbourne Fund to provide Environmental Upgrade Agreements (EUA's) for local businesses within the municipality.


Current Actions

Current Actions	Status
Promote energy and water efficiency through website, publications, events and programs.	Ongoing
<ul style="list-style-type: none"> Ongoing Responsibility – Communications & Customer Service + Planning & Design 	
Work with United Energy and other key stakeholders to improve regional community data availability and identify opportunities to reduce energy consumption.	In Progress
<ul style="list-style-type: none"> 2016-18 Responsibility – Planning & Design 	
Promote EUA's to local businesses to facilitate a building upgrade to improve energy efficiency.	In Progress
<ul style="list-style-type: none"> 2017-19 Responsibility – Economic Development Unit + Planning & Design 	
Work with South East Water to increase community awareness and save water.	Ongoing
<ul style="list-style-type: none"> Ongoing Responsibility – Economic Development Unit + Planning & Design 	



Community Objective: BP – 2.2 Places

Work with the community to enhance the sense of place through Council's Placemaking Framework.

2020 TARGET
Increase each Place Score + Number of Place Scores
BASELINE
Seven Place Scores Sites (2015)
PERFORMANCE
Fourteen Place Scores Sites (2016-17):
Highest – 74/100 Harmony Square (Dandenong)
Lowest – 29/100 Post Office Lane (Springvale)
ON TARGET 

An audit of 'Place Scores' (2015 to 2017) assessed the 'place experience' of 14 key sites in the City of Greater Dandenong in terms of being a place that people want to visit and spend time in.

Place Scores measure the place's aesthetics, sense of welcome, social offer, uniqueness, care and maintenance which provides a baseline for directing and assessing enhancements and activation.

Overall, sites within the City of Greater Dandenong are well cared for, meaning places are managed, maintained and looked after. Each activity centre has a different key strength, indicating the diversity between places. However, high investment into spaces has not necessarily correlated with a high Place Score.

All key sites could improve in terms of their Social Offerings, such as increasing 'things to do' in each place to encourage socialisation. Examples include providing comfortable places to sit in groups, comfortable places to sit alone, and opportunities for play, outdoor dining, inter active edges to key sites, events and community activities.

Figure BP – 2.2 Place Scores

Dandenong			Springvale			Noble Park		
Harmony Square	Palm Plaza	Settlers Square	Buckingham Avenue	Springvale Multicultural Place	Post Office Lane	Douglas Street	Noble Park Civic Space	Ian Street
74	60	48	69	68	29	64	63	33
A Great People Place	Good – Room for Improvement	Needs Help! – Awaiting adjacent development	Good – Room for Improvement	Good – Room for Improvement	Needs Help! – Improvements underway	Good – Room for Improvement	Good – Room for Improvement. – New Civic space pending	Needs Help!

Highlights

Place Scores for 14 locations in the Dandenong, Springvale and Noble Park activity centres have been completed.

Current Actions

- Improve social offerings for key sites identified with Place Scores for each activity centre location
 - Ongoing | Responsibility – Activity Centres Revitalisation + Planning & Design

Status
In Progress

Completed Actions

Behaviour mapping has been undertaken in places related to place score locations in each activity centre. Behaviour mapping is an observation based research that tracks peoples' behaviour in relation to features of the physical environment. ✓

Established a baseline Place Score for 14 locations in Greater Dandenong Activity Centres which included seven new locations in 2016/17. ✓



Community Objective: BP – 2.3 Walkability

Work with key partners to help increase the walkability of our suburbs.

2020 TARGET	
Increase Average Walk Score	
BASELINE	
2016:	
Dandenong – 64	Noble Park – 48
Springvale – 66	Keysborough – 49
PERFORMANCE	
2017:	
Dandenong – 64	Dandenong – 48
Springvale – 66	Springvale – 49
ON TARGET	

Walkscore is based on an analysis of walking routes to nearby amenities. The scoring is based on the awarding of points based on the walking distance to a range of nearby amenities. The scores for each suburb is a weighted average of the scores of many addresses in the neighbourhood.

The suburbs of Dandenong and Springvale are considered by Walk Score to be ‘somewhat walkable’, whereas Noble Park and Keysborough are considered to be ‘car dependent’, as most errands are considered to require a car.

An assessment in August 2017 of the walkability of suburbs within Greater Dandenong using the online Walk Score tool provided the following scores:

Figure BP – 2.3 2017 Walkscores for Greater Dandenong Suburbs

Dandenong

Walk Score

64

Springvale

Walk Score

66

Noble Park

Walk Score

48

Keysborough

Walk Score

49

Highlights

Adoption by Council of the Greater Dandenong Walking Strategy 2015-23.

Current Actions

Deliver new paths through the Active Transport Infrastructure Priority Program in accordance with the Council’s Guiding Design Principles for Walking and Bicycle Infrastructure.

Status

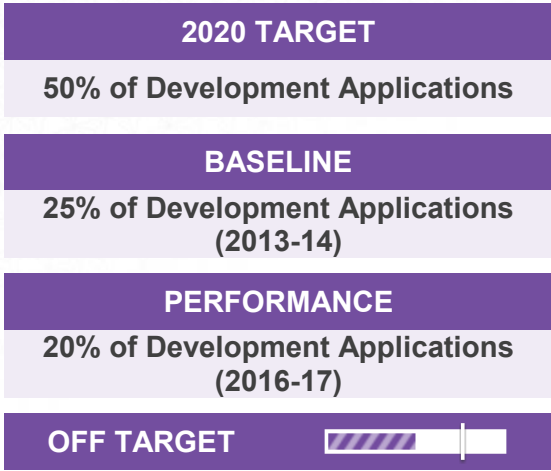
Ongoing

- Ongoing | Responsibility – Transport and Civil Development



Community Objective: BP – 2.4 Planning

New development within the city to incorporate best practice Environmentally Sustainable Design (ESD).



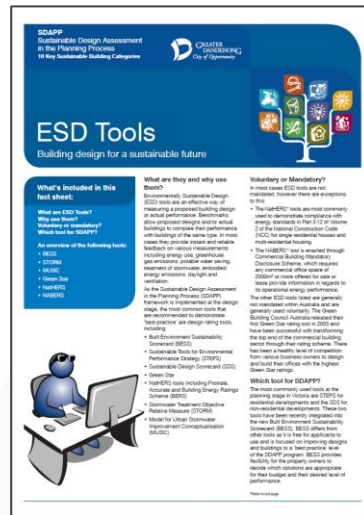
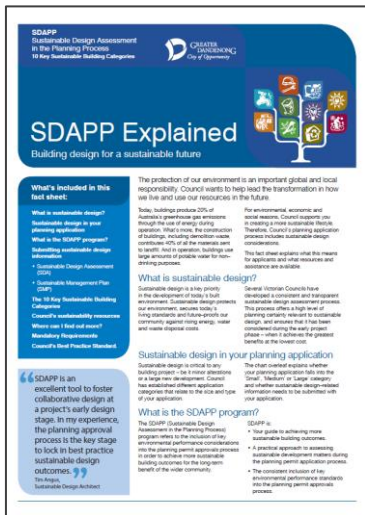
Council uses the Sustainable Design Assessment in the Planning Process (SDAPP) and Built Environment Sustainability Scorecard (BESS) to assess the sustainability of development planning applications.

In 2016-17 Council assessed the Environmentally Sustainable Design (ESD) credentials of 67 new development applications. This equals 20% of all new development applications and 60% of new development applications that meet the SDAPP trigger levels in Greater Dandenong.

To help address these issues Council uses the SDAPP Fact Sheets – see Figure BP-2.4b:

- SDAPP Explained
- ESD Tools.

Figure BP – 2.4b SDAPP Fact Sheets



Highlights

Implementation of the Built Environment Sustainability Scorecard (BESS) an online tool for planning applications. The new Australian Tax Office building in Central Dandenong has been awarded a six star Green Star rating, meeting the highest international standards in sustainable building practice.

Current Actions

Advocate through the Council Alliance for a Sustainable Built Environment (CASBE) for higher ESD standards at both Planning and Building stage of the development process.

- Ongoing | Responsibility – Planning & Design

Preparation of Local ESD Planning Policy for the Greater Dandenong Planning Scheme.

- 2016-18 | Responsibility – Planning & Design

Use the SDAPP framework and BESS assessment tool to assess planning applications.

- Ongoing | Responsibility – Planning & Design

Status

Ongoing

In Progress

Ongoing

Completed Actions

Introduction of new ESD templates and example reports for applicants on Council's website.



Training of Council Planning Staff on the SDAPP process and BESS tool.





Community Objective: BP – 2.5 Awareness

Engage and empower the community to help improve the energy and water performance of their buildings.



For the City of Greater Dandenong to achieve its goal of becoming a City Planned for the Future, the required changes to policies, practices and technology will need to be accepted and embraced by the community, residents and businesses.

This will require Council to actively engage and empower the local community to take action.

As Council's resources are limited, working with partners enables Greater Dandenong Council to undertake a much wider range of activities to engage with the community on energy efficiency and renewables than its resources would otherwise allow.

Figure BP – 2.5a Community Awareness



2017 Sustainable Development Award Winners:
The Quarter, Springvale

Note: Council does not have a dedicated Community Awareness program on Sustainable Buildings.

Figure BP – 2.5b Council Partners in 2017



Highlights

- The 2016-17 Greater Dandenong Sustainability Festival and Awards.
- 2017 Sustainable Development Awards – awarded to The Quarter, Springvale.
- The City of Greater Dandenong working with the Sustainable Melbourne Fund to provide Environmental Upgrade Agreements (EUA's) for local businesses within the municipality.

Current Actions

Current Actions	Status
Delivery of the Greater Dandenong Sustainability Festival and Awards in 2017-18.	Ongoing
<ul style="list-style-type: none"> Ongoing Responsibility – Planning & Design 	
Promote benefits of a sustainable built environment and ESD requirements on CGD website and in publications.	Ongoing
<ul style="list-style-type: none"> Ongoing Responsibility – Communications & Customer Service + Planning & Design 	
Use the SDAPP framework and BESS assessment tool to assess planning applications.	Ongoing
<ul style="list-style-type: none"> Ongoing Responsibility – Planning & Design 	
Continue to advocate ESD through the Council Alliance for a Sustainable Built Environment (CASBE).	Ongoing
<ul style="list-style-type: none"> Ongoing Responsibility – Planning & Design 	
Work with SECCCA to develop and implement programs to reduce community CO2e emissions.	Ongoing
<ul style="list-style-type: none"> Ongoing Responsibility – Planning & Design 	
Promote EUA's to local businesses to facilitate a building upgrade to improve energy efficiency.	In Progress
<ul style="list-style-type: none"> 2017-19 Responsibility – Economic Development Unity + Planning & Design 	
Work with United Energy and Multinet Gas to identify opportunities to reduce energy consumption.	In Progress
<ul style="list-style-type: none"> 2016-18 Responsibility – Planning & Design 	

Completed Actions

- 2016-17 Sustainability Festival and Awards. ✓



ENVIRONMENTAL POLLUTION



Imagine a Clean and Healthy City with clean air, water and land, which support a healthy local environment and protects the community from pollution-related health problems.

OUR GOAL: A CLEAN AND HEALTHY CITY

Background

There are numerous environmental pollutants that have the potential to have a significant impact on our environment, on our community, and as a result on our economy, locally in Greater Dandenong, nationally across Australia and internationally throughout the globe. The impact on the Australian economy of air pollution alone is estimated to be in the billions of dollars per year.

Council has established environmental objectives and targets that will help reduce the level of pollutants generated within the municipality, protecting the local environment and the health of the local community.

Corporate Objectives

Performance Indicator

EP – 1.1 Land Use Pollution	130 Council Projects required Environmental Management Plans	
EP – 1.2 Water Pollution	130 Council Projects required Environmental Management Plans	
EP – 1.3 Air Pollution	130 Council Projects required Environmental Management Plans	

Community Objectives

Performance Indicator

EP – 2.1 Land Use Pollution	Limited Data	
EP – 2.2 Water Pollution	98% of Catchment rated Very Poor (Whole of Dandenong Creek) (2015-16)	
EP – 2.3 Air Pollution	Air Quality Index Dandenong – Fair (2015)	
EP – 2.4 Planning	20% of Development Applications (2016-17)	
EP – 2.5 Awareness	Existing Programs	



Corporate Objective: EP – 1.1 Land Use Pollution

Minimise and manage sources of land pollution from Council's operations and facilities.

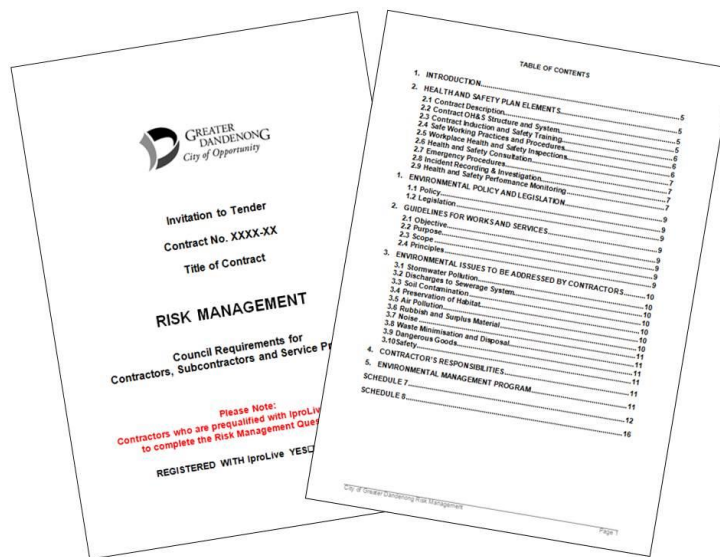


Land pollution is contamination of the soil that prevents natural growth and balance in the land, whether it is used for cultivation, habitation or a wildlife reserve. Soil pollution sources include hazardous waste and sewage spills, non-sustainable farming practices and household dumping.

To manage the risk of land use pollution across Council's operations, its contractors and subcontractors are required to have a compliant Environmental Management System (EMS) and /or an Environmental Management Plan (EMP) in place for any works conducted in the municipality.

- In 2016-17 Council went out to tender on 130 projects – all required a compliant EMS / EMP.
- Council conducted 37 EMS / EMP audits in 2015-16 as part of its procurement process.
- In 2016-17 all contractors and sub-contractors engaged via Council tenders met the EMS / EMP requirements.

Figure EP – 1.1a Council requirements for tenderers include consideration of environmental issues.



Current Actions

Requirement for tenderers to demonstrate appropriate environmental management systems and or plans as part of the tender process where appropriate.

- **Ongoing | Responsibility – People and Procurement**

Status

Ongoing

Council's Contract Superintendents to ensure contractors meet their obligations as identified in Council's Requirements for Contractors, Subcontractors and Service Providers.

- **Ongoing | Responsibility – Responsible Contract Superintendents**

Ongoing



Corporate Objective: EP – 1.2 Water Pollution

Minimise and manage sources of water pollution from Council's operations and facilities.

*Stormwater quality and waterway health (focus area).

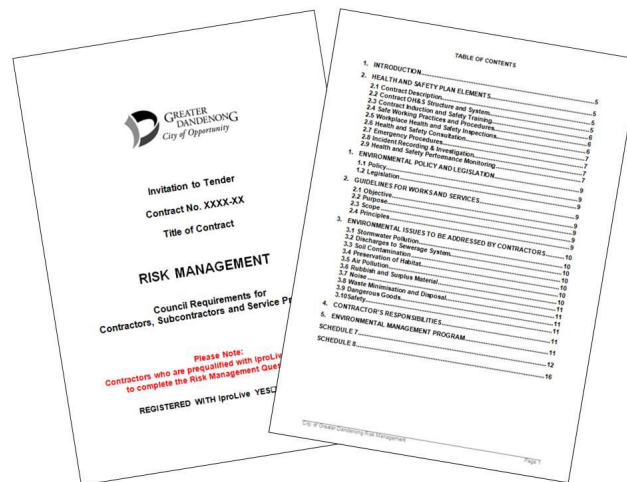


Water pollution is the contamination of water bodies (e.g. lakes, rivers, oceans, aquifers and groundwater). This form of environmental degradation occurs when pollutants are directly or indirectly discharged into water bodies without adequate treatment to remove harmful compounds.

To manage the risk of water pollution across Council's operations, its contractors and subcontractors are required to have a compliant Environmental Management System (EMS) and /or an Environmental Management Plan (EMP) in place for any works conducted in the municipality.

- In 2016-17 Council went out to tender on 130 projects – all required a compliant EMS / EMP.
- Council conducted 37 EMS / EMP audits in 2015-16 as part of its procurement process.
- In 2016-17 all contractors and sub-contractors engaged via Council tenders met the EMS / EMP requirements.

Figure EP – 1.2a Council requirements for tenderers include consideration of environmental issues.



Current Actions

Requirement for tenderers to demonstrate appropriate environmental management systems and or plans as part of the tender process where appropriate.

- **Ongoing | Responsibility – People and Procurement**

Council's Contract Superintendents to ensure contractors meet their obligations as identified in Council's Requirements for Contractors, Subcontractors and Service Providers.

- **Ongoing | Responsibility – Responsible Contract Superintendents**

Monitoring of Council's water quality treatment wetlands as part of the stormwater source pollution monitoring project funded through Melbourne Water's Living Rivers Program.

- **2017-18 | Responsibility – Regulatory Services + Planning & Design**

Status

Ongoing

Ongoing

In Progress



Corporate Objective: EP – 1.3 Air Pollution

Minimise sources of air pollution from Council's operations and facilities.

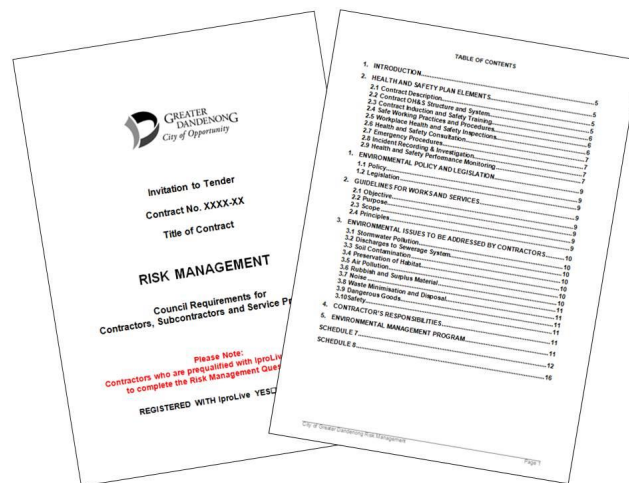


Air pollution is the introduction of particulates, biological molecules, or other harmful materials into the earth's atmosphere, causing diseases, allergies and death to humans, damage to other living organisms such as animals and food crops, and the natural or built environment.

To manage the risk of air pollution across Council's operations, its contractors and subcontractors are required to have a compliant Environmental Management System (EMS) and /or an Environmental Management Plan (EMP) in place for any works conducted in the municipality.

- In 2016-17 Council went out to tender on 130 projects – all required a compliant EMS / EMP.
- Council conducted 37 EMS / EMP audits in 2015-16 as part of its procurement process.
- In 2016-17 all contractors and sub-contractors engaged via Council tenders met the EMS / EMP requirements.

Figure EP – 1.3a Council requirements for tenderers include consideration of environmental issues.



Current Actions

Requirement for tenderers to demonstrate appropriate environmental management systems and or plans as part of the tender process where appropriate.

- **Ongoing | Responsibility – People and Procurement**

Council's Contract Superintendents to ensure contractors meet their obligations as identified in Council's Requirements for Contractors, Subcontractors and Service Providers.

- **Ongoing | Responsibility – Responsible Contract Superintendents**

Status

Ongoing

Ongoing



Community Objective: EP – 2.1 Land Use Pollution

Work with the community to reduce land pollution across the city.

*Land contamination and illegal dumping (focus area).

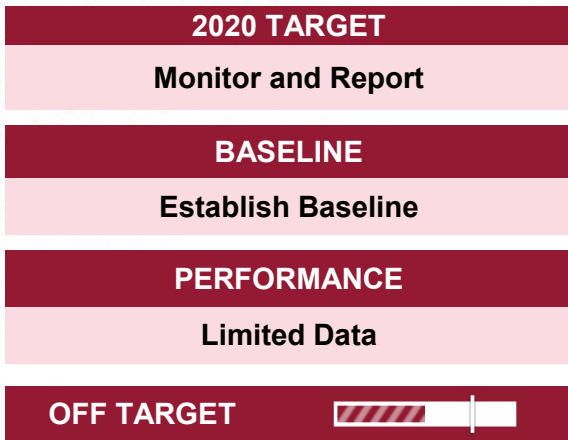


Figure WS – 2.1 An example of a recent illegal dumping case prosecuted by Council.



While Council has a valuable role to play, land pollution is an issue impacted by the actions of many stakeholders, including the Victorian Government, the Environment Protection Authority (EPA), industry and householders.

A focus of Council is the current lack of existing regulations for mid-tier waste skip operators that are creating illegal dumping issues.

Highlights

The City of Greater Dandenong selected as one of 13 Victorian councils to take part in the \$4.8M Officers for the Protection of the Local Environment pilot program designed to improve local responses to pollution and waste issues.

Current Actions

Current Actions	Status
Review of customer request reporting system (MERIT) to improve monitoring and reporting. <ul style="list-style-type: none"> 2016-18 Responsibility – Regulatory Services 	In Progress
Advocate to the EPA for tighter controls with respect to mid-tier waste skip operators to reduce incidences of illegal waste disposal. <ul style="list-style-type: none"> 2016-18 Responsibility – Regulatory Services 	In Progress
Implement 'Industrial Area Clean Street Program' – an ongoing program of auditing and engaging with businesses to reduce environmental issues within identified priority industrial areas. <ul style="list-style-type: none"> Ongoing Responsibility – Regulatory Services 	Ongoing
Identify plastic polymer manufacturers and users to reduce offsite environmental pollution impacts on Port Phillip Bay. <ul style="list-style-type: none"> Ongoing Responsibility – Regulatory Services 	Ongoing
Land use approvals process to manage impacts from material recyclers, waste transferrers and organic waste processing plants. <ul style="list-style-type: none"> Ongoing Responsibility – Regulatory Services + Planning & Design 	Ongoing
Implement with EPA the Officers for the Protection of the Local Environment pilot program. <ul style="list-style-type: none"> 2017-19 Responsibility – Regulatory Services 	In Progress
Complete annual audit of large greenwaste and commercial waste recyclers. <ul style="list-style-type: none"> Ongoing Responsibility – Regulatory Services 	Ongoing


Completed Actions

Complete Stage Water Monitoring Tool which has provided evidence base to support engagement with businesses to reduce pollution at its source.	✓
Completed first Industrial Clean Street Audit program in 2016-17.	✓
Completed 2016-17 annual audit of large greenwaste and commercial waste recyclers.	✓



Community Objective: EP – 2.2 Water Pollution

Work with the community to improve stormwater quality and waterway health across the city.

2020 TARGET
Monitor and Report
BASELINE
93% of Catchment rated Very Poor (2012-13)
PERFORMANCE
98% of Catchment rated Very Poor (Whole of Dandenong Creek)(2015-16)
OFF TARGET 

Pollution of our waterways with litter and other less visible contaminants can all add up to significant impacts on the waterways' aquatic ecosystem and lessen their quality and beneficial use.

This includes our use of the waterways and marine environments for swimming, fishing, agriculture and industrial uses, as well as potentially creating unsightly creeks and rivers that lessen the recreational value and create health risks.

The water quality scores in the Dandenong Creek catchment are usually Very Poor due to:

- urban and industrial land use throughout the catchment
- stormwater runoff from these areas carries pollutants to the waterways and impacts waterway health
- concentrations of nutrients, metals (copper, lead, zinc, chromium) and other pollutants are high due to runoff from roads and industrial areas .

Figure WS – 2.2 Dandenong Creek Catchment - Report Card for 2015-16 - Summary Table*

This Report Card Summary Table* provides an overview of water quality across the whole of the Dandenong catchment, from the streams at the foothills of the Dandenong ranges, down to where it enters Port Phillip Bay.

The quality of the water is given an overall score by combining the results of six standard water quality parameters: nutrients, water clarity, dissolved oxygen, pH, salinity and metals.

Area	Score
0%	Very Good Near-natural high quality waterways
2%	Good Meets Victorian water quality standards <i>Near naturally forested area at the base of Mt Dandenong</i>
0%	Fair Some evidence of stress
0%	Poor Under considerable stress
98%	Very Poor Under severe stress <i>Small streams in urban and industrial areas</i>

*Source: <http://yarraandbay.vic.gov.au/report-card/report-card-2016/dandenong>. As viewed 17 August 2017

Highlights

Additional funding from Melbourne Water's Living Rivers Program for Council's Source Pollution Monitoring Program. Preparation of education material for traders to improve their management of liquid waste and stormwater runoff.

Current Actions

Current Actions	Status
Stormwater source pollution monitoring and engagement project within industrial areas. ▪ 2015-18 Responsibility – Regulatory Services + Planning & Design	In Progress
Review of customer request reporting system (MERIT) to improve monitoring and reporting. ▪ 2016-18 Responsibility – Regulatory Services	In Progress
Engage local businesses to improve site management practices to reduce contaminated liquid discharges from entering the local waterways. ▪ Ongoing Responsibility – Regulatory Services	Ongoing
Focus on businesses washing down equipment and vehicles outside of areas with approved interceptor drains. ▪ 2017-18 Responsibility – Regulatory Services	In Progress
Promote healthy waterways through peer to peer education activities with funds provided through Melbourne Water's Living Rivers Program. ▪ 2016-18 Responsibility – Regulatory Services	In Progress
Participate in Melbourne Water's stakeholder forums for the Healthy Waterway Strategy update. ▪ 2017-18 Responsibility – Infrastructure Services & Planning + Planning & Design	In Progress
Implement with EPA the Officers for the Protection of the Local Environment pilot program. ▪ 2017-19 Responsibility – Regulatory Services	In Progress

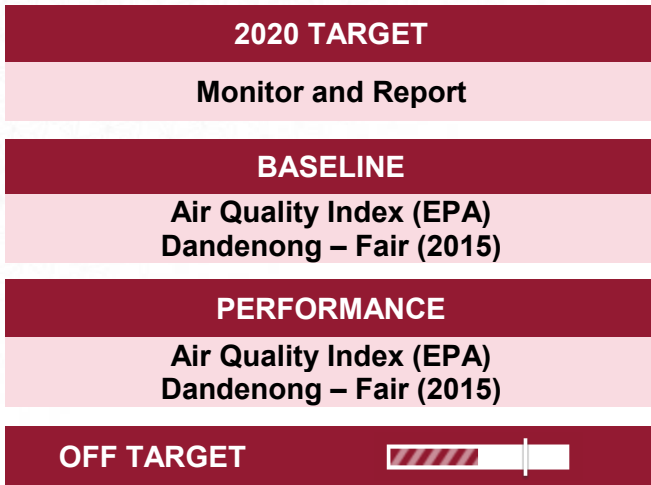
Completed Actions

Initial source pollution monitoring project in industrial areas funded through Melbourne Water. ✓



Community Objective: EP – 2.3 Air Pollution

Work with the community to improve air quality across the city.



While actions such as the banning of backyard incinerators and requiring improved technology in cars has helped to improve air quality in urban areas, there is still further work to be done, as pollution from households and industry is expected to increase due to a growing population.

Council has a valuable role to play, but so too does the development, industrial and manufacturing sectors.

Air quality is an issue impacted by the actions of many stakeholders, including the Victorian Government, the Environment Protection Authority, industry and householders.

Figure EP – 2.3a Dust Suppression



Figure EP – 2.3b Air Monitoring Station



Highlights

Audits within Industrial 1 Zone Precinct that targeted spray booths and cyclone extractors to reduce odour and particulate emissions.

Ongoing monitoring of industrial bio-filters to reduce odour emissions.

Ongoing focus on reducing wind borne particulates (dust) from earth works associated with land development.

Current Actions

Current Actions	Status
Review of customer request reporting system (MERIT) to improve monitoring and reporting. ▪ 2016-18 Responsibility – Regulatory Services	In Progress
Ongoing program within identified priority industrial areas across the municipality to audit and engage with businesses to reduce potential environmental issues. ▪ Ongoing Responsibility – Regulatory Services	Ongoing
Engage businesses to improve site management practices and reduce odour and windborne particulates entering the atmosphere. ▪ Ongoing Responsibility – Regulatory Services	Ongoing
Work with EPA to monitor post closure management of the Clarke Road Landfill to reduce impacts on the amenity of local residents. ▪ Ongoing Responsibility – Regulatory Services	Ongoing
Focus on reducing odour and particulate emissions from specific industrial processes such as fiberglass production and spray booths. ▪ 2017-18 Responsibility – Regulatory Services	In Progress
Implement with EPA the Officers for the Protection of the Local Environment pilot program. ▪ 2017-19 Responsibility – Regulatory Services	In Progress
Ongoing engagement with developers focussing on construction noise emissions. ▪ Ongoing Responsibility – Regulatory Services	Ongoing

Completed Actions

Audits within Industrial 1 Zone Precinct that targeted spray booths and cyclone extractors to reduce odour and particulate emissions.	✓
Ongoing measures to reduce wind borne particulates from earth works associated with land development.	✓



Community Objective: EP – 2.4 Planning

New developments within the city to incorporate best practice pollution management.

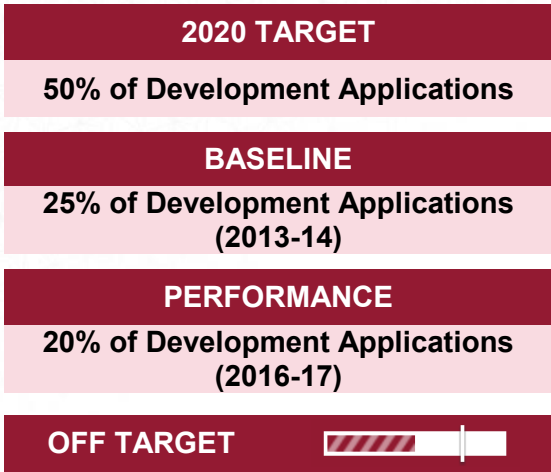
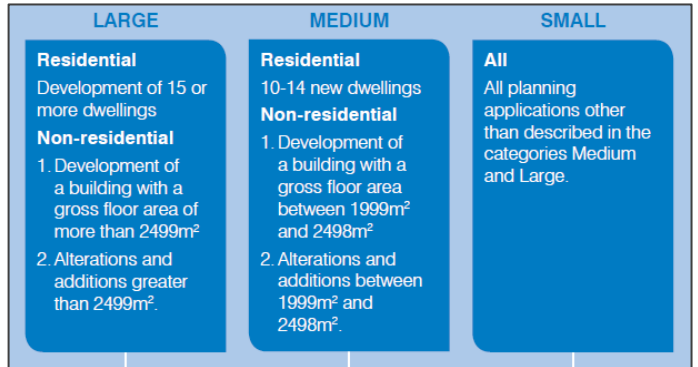


Figure WS – 2.4a SDAPP Trigger Levels



Sustainability of development applications

Council uses the Sustainable Design Assessment in the Planning Process (SDAPP) and Built Environment Sustainability Scorecard (BESS) to assess the sustainability of development applications.

Figure EP-2.4a outlines the SDAPP Trigger Levels for development applications in Greater Dandenong.

In 2016-17 Council assessed the Environmentally Sustainable Design (ESD) credentials of 67 development applications. This equals 20% of all new development applications and 60% of new development applications that meet the SDAPP trigger levels.

Sustainability guidance - SDAPP Fact Sheets

Construction sites can represent a great burden on local waterways. Once stormwater from these sites enter the waterways, its pollutants can be detrimental to aquatic life, wildlife and human health

Under the Environmental Protection Act it is an offence to discharge contaminated water into the stormwater system.

To help address these issues Council uses the SDAPP Fact Sheets – see Figure EP-2.4b:

- Construction and Building Management
- Waste Management.

Figure EP – 2.4b Construction and Waste Management SDAPP Fact Sheets



Highlights

Adopted the Built Environment Sustainability Scorecard (BESS) an online assessment tool for planning applications.

Current Actions

- Preparation of Local ESD Planning Policy for the Greater Dandenong Planning Scheme.
 - 2016-18 | Responsibility – Planning & Design**
- Use planning to control impacts from recyclers, transferrers and organic processing plants.
 - Ongoing | Responsibility – Regulatory Services + Planning & Design**
- Use the SDAPP framework and BESS assessment tool to assess planning applications.
 - Ongoing | Responsibility – Planning & Design**

Status

- Started**
- Ongoing**
- Ongoing**

Completed Actions

Complete review of Council's Planning Permit conditions with a focus on ensuring appropriate controls through environmental management plans. ✓



Community Objective: EP – 2.5 Awareness

Engage and empower the community, both residents and businesses, to increase their awareness and minimise associated pollution.



Various Council business units, such as the Sustainability, Waste and Parks teams, provide general pollution related information to the community each year through a range of measures, including:

- Council’s website and social media
- newsletters and other publications
- Event’s such as World Wetlands Day and the Sustainability Festival.

Council’s Regulatory Services team also routinely engage with the residents and businesses and increase their awareness on environmental issues as part of their day to day activities ensuring compliance with local laws and planning permit conditions.

Figure BE – 2.5 Examples of Council’s community engagement activities to reduce pollution



Note: Council does not have a dedicated Community Awareness program for Pollution.

Highlights

The City of Greater Dandenong is a finalist in the Keep Australia Beautiful 2017 Sustainable Cities Award.

Current Actions

Current Actions	Status
Delivery of program to engage with local businesses focussed on improving the quality of stormwater runoff, with funding support through Melbourne Water’s Living Rivers program. ▪ 2015-18 Responsibility – Regulatory Services+ Planning & Design	In Progress
Delivery of Waterway Litter campaign with funding support through Melbourne Water. ▪ 2016-18 Responsibility – Regulatory Services	In Progress
Ongoing program within identified priority industrial areas across the municipality to audit and engage with businesses to reduce potential environmental harm. ▪ Ongoing Responsibility – Regulatory Services	Ongoing
Use planning assessment tools to better inform applicants of their environmental responsibilities associated with planning outcomes. ▪ Ongoing Responsibility – Planning & Design	Ongoing
Ongoing delivery of ‘Dob in a Dumper’ and ‘It’s in your Hands’ illegal dumping branding. ▪ Ongoing Responsibility – Infra. Services & Planning + Regulatory Services	Ongoing
Use Council’s website, publications and social media to promote awareness and responsibility. ▪ Ongoing Responsibility – Communication & Customer Services	Ongoing
Work with partner stakeholders to collaborate on the production and use of education / engagement material to ensure efficient use of resources. ▪ Ongoing Responsibility – Regulatory Services	Ongoing
Community awareness to be a focus area for the EPA’s Protection of the Local Environment pilot program’s officer. ▪ 2017-19 Responsibility – Regulatory Services	Not Started

Completed Actions

Running activities at community events in 2016-17 such as the Dandenong Show.	✓
Successful bid for EPA’s Protection of the Local Environment pilot program.	✓
Successful bid for funding through MW’s Living Rivers Fund for Stormwater Pollution program.	✓



LOCAL & SUSTAINABLE FOOD



To create a city connected by food where people have healthy balanced diets, have the ability to grow their own fruit and vegetables, and have access to local and seasonal fresh food which is locally grown and processed.

OUR GOAL: A CITY CONNECTED BY FOOD

Background

Greater Dandenong is home to over 1000 food businesses, including 80 food manufacturers and 750 food retailers. The local food sector exports \$686M per annum and employs over 6,900 people. However, the production and consumption of food accounts for 28% of the average Australian's total greenhouse gas emissions and 48% of the average Australian's total ecological footprint. Council has established objectives to promote the production and consumption of local and sustainable food, and highlight the health benefits.

Corporate Objectives

Performance Indicator

LF – 1.1 Procurement	Investigate Sustainable Food Options	
LF – 1.2 Food Waste	12.8% of Total Council Office Waste Diverted from Landfill (2017)	
LF – 1.3 Awareness	141 Staff Surveyed (16%) (2016)	

Community Objectives

Performance Indicator

LF – 2.1 Urban Agriculture	68% of Residential Properties + Greater Ability (2016)	
LF – 2.2 Access	2014 Healthy Food Report	
LF – 2.3 Affordability	Cost of Healthy Food Basket - 28% of Income for Typical Low Income Family (2016)	
LF – 2.4 Green Wedge	1,037 Ha + 32 Businesses (2011)	
LF – 2.5 Planning	20% of Development Applications (2016-17)	
LF – 2.6 Awareness	Existing Programs	



Corporate Objective: LF – 1.1 Procurement

Develop and implement a sustainable food procurement policy for Council.

2020 TARGET

Update Existing Policies

BASELINE

Existing Policies and Strategies

PERFORMANCE

Investigate Sustainable Food Options

ON TARGET



Council currently has a range of policies and strategies that relate to the production, consumption and procurement of food, such as it's Healthy Eating Guide and the Corporate Catering Policy.

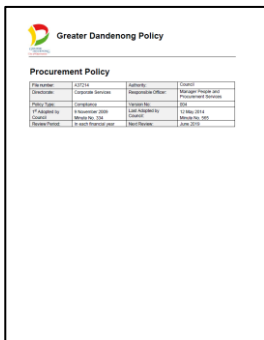
Council has committed to investigating options for the sustainable procurement of food. The goal is to establish a procurement policy that promotes a local and sustainable approach to the production and consumption of food that supports local businesses.

This goal is supported across a range of existing strategies and policies, such as the Regional Food Strategy.

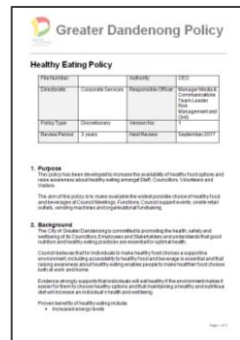
The adoption of a sustainable food procurement policy will enable Council to move from a project by project approach, to an organisational framework for understanding and making change towards a more sustainable food system.

LF – 1.1 Procurement – Examples of existing food related strategies and policies

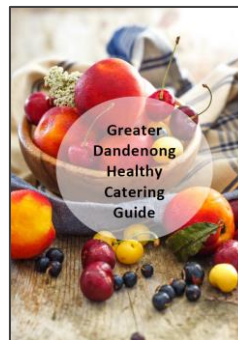
Procurement Policy



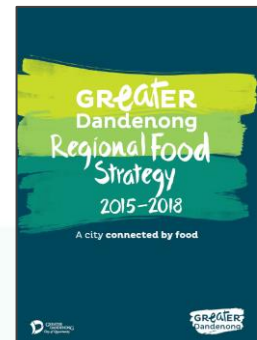
Healthy Eating Policy



Healthy Catering Guide



Regional Food Strategy



Highlights

Update of Council's Procurement Policy which includes commitments to reduce its environmental impacts through sustainable procurement and to support local businesses.

Current Actions

- Ongoing implementation of Council's Procurement Policy.
 - Ongoing | Responsibility – Corporate Services
- Ongoing promotion of Council's Healthy Eating Policy.
 - Ongoing | Responsibility – Corporate Services

Status

Ongoing
Ongoing

Completed Actions

- Update of Council's Procurement Policy.
- Implementation of the Healthy Catering Guide.

✓
✓



Corporate Objective: LF – 1.2 Waste

Reduce the amount of food waste and packaging sent to landfill.

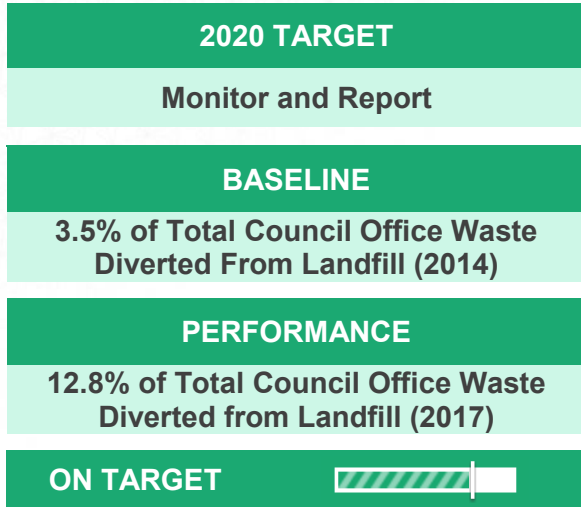


Figure WR-1.1a shows the results from waste audits conducted in June 2017 of offices at the Dandenong Civic Centre and Operations Centre – it indicates::

- Total waste collected in 2017 was 15.6 tonnes per year
 - An increase on the 13.0 tonnes in 2016
 - A decrease on the baseline of 28.5 tonnes
- This equals 34.5kg or 893L of waste per staff member per year.

The amount of compostable food waste estimated to being collected from Council offices was 12.8% of the total waste collected in 2017 an increase from 12% in 2016 and a significant increase compared to 3.5% in 2014.

While there has been a significant increase in the amount of waste being diverted from landfill at Council's offices, there is still further work to be done. The audit indicated that the garbage waste showed significant amounts of material that could be recycled (30%) or composted (18%).

Figure LF – 1.2a Council office waste audit – overall results

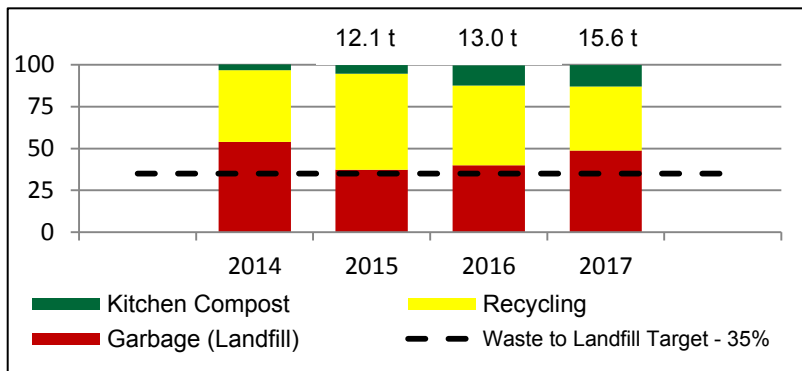
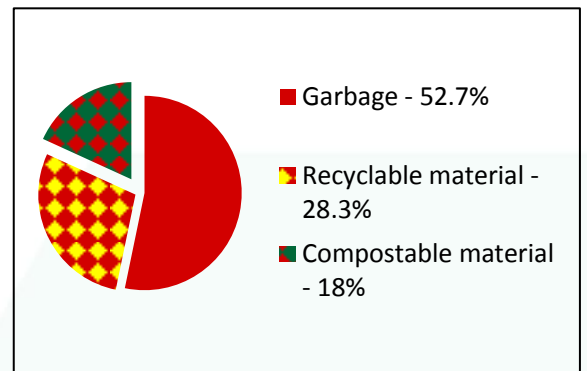


Figure LF – 1.2b Composition of waste placed in Council office garbage bins



Highlight

Recovery of food scraps from council office kitchens, as part of Council's Waste Wise office recycling program.

Current Actions

Ongoing collection of food scrap waste from Council offices.

- Ongoing | Responsibility – Infrastructure Services

% Completed

Ongoing

Completed Actions

Kitchen waste collected from the Dandenong Civic Centre and Operations Centre for composting.

✓

Ongoing promotion of food scraps waste collection program through a range of media channels.

✓



Corporate Objective: LF – 1.3 Awareness

Create an internal culture that promotes healthy diets, as well as local and sustainable food options.

2020 TARGET
Increase Staff Awareness
BASELINE
141 Staff Surveyed (16%) (2016)
PERFORMANCE
141 Staff Surveyed (16%) (2016)
ON TARGET

In 2016, 141 Council staff completed the Health and Wellbeing Survey and identified that healthy eating means:

- Eating more fruits and vegetables (70.9%)
- Limiting fat and calorie intake (52.5%)
- Eating local and sustainably grown foods (17%)

Other 2016 survey results indicated that:

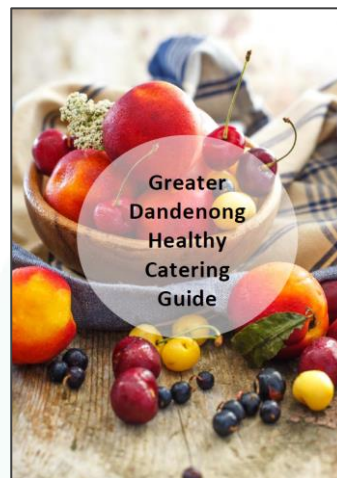
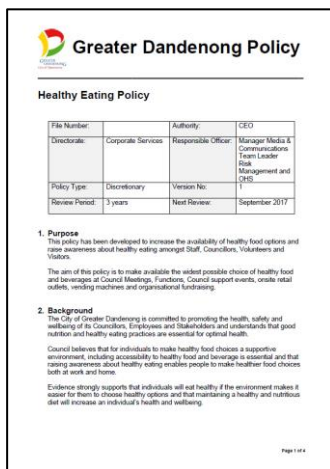
- 76% of staff bring their food from home (down from 80% in 2013)
- 39% purchasing from nearby retailers (down from 44% in 2013)

When asked how supportive Council was of healthy eating:

- 63% of staff considered Council supportive
 - 40% of the comments were positive,
 - 51% were negative
 - 9% were neutral.

Of the comments, 73% mentioned that there was unhealthy food either in vending machines, at morning teas, in meetings or at other similar events.

Figure LF – 1.3 Council’s Healthy Eating Policy & Healthy Catering Guide



Highlights

Council implemented its Healthy Eating Policy in 2014.

Current Actions

Ongoing implementation of Council’s Healthy Eating Policy.

- **Ongoing | Responsibility – Communications & Customer service**

Status

Ongoing

Promote Council’s Corporate Healthy Catering Guide.

- **Ongoing | Responsibility – Community Wellbeing**

Ongoing

Completed Actions

Healthy Eating information placed on Council’s internal website.

✓



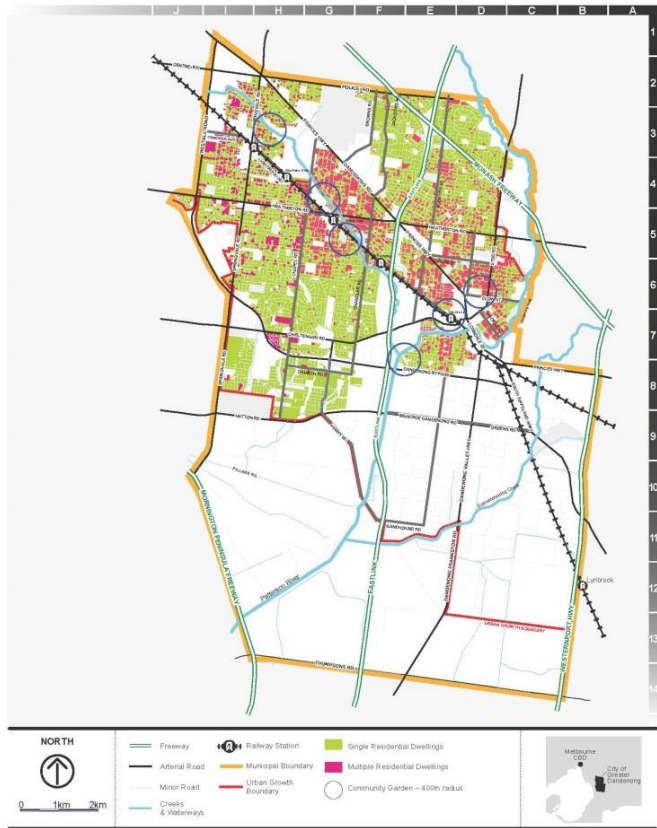
Community Objective: LF – 2.1 Urban Agriculture

Work with partners to support the community's ability to grow their own fresh fruit and vegetables.

2020 TARGET
Increase ability of residents to grow fresh fruit and vegetables
BASELINE
68% of residents have good ability (2016)
PERFORMANCE
68% of residents have good ability (2016)
ON TARGET

Figure LF – 2.1 Residents ability to grow food.

URBAN AGRICULTURE (LF - 2.1)



As the traditional 'quarter acre block' with large gardens are increasingly replaced through the development of multiple residential properties (e.g. Townhouses, units and apartments) with limited private open space, community gardens provide an opportunity for those residents with limited private open space to grow their own fruit and vegetables.

An analysis of residential land use in Greater Dandenong indicates that:

**68%
Good
Ability**

of properties have a greater ability to grow fresh fruit and vegetables:

- Single detached homes and semi-detached townhouses; or,
- Multi-residential properties within 400m of public community garden.

**32%
Limited
Ability**

of properties that have a limited ability to grow fresh fruit and vegetables:

- Multi-residential properties not within 400m of public community garden.

Refer to <http://sustainable.greaterdandenong.com>

Highlights

Edible Food Gardens developed in Dandenong Park by Council.

Pop up community garden space in Central Dandenong in partnership with Development Victoria and the Red Cross.

Current Actions

Ongoing trial of edible gardens displays to promote ability for community to grow own food.

- **Ongoing | Responsibility – Infrastructure Services**

Status

Ongoing

Work with Development Victoria and TRY Group to develop a community garden in Halpin Way.

- **2016-18 | Responsibility – Economic Development Unit**

In Progress

Consider potential opportunities to establish new community gardens.

- **Ongoing | Responsibility – Economic Development Unit**

Ongoing

Completed Actions

Development of 4 garden network case studies for Council's website.





Community Objective: LF – 2.2 Access

Work with stakeholders to increase percentage of residents that have access to healthy food.

2020 TARGET
Monitor and Report
BASELINE
2014 Healthy Food Report
PERFORMANCE
Not Available
ON TARGET

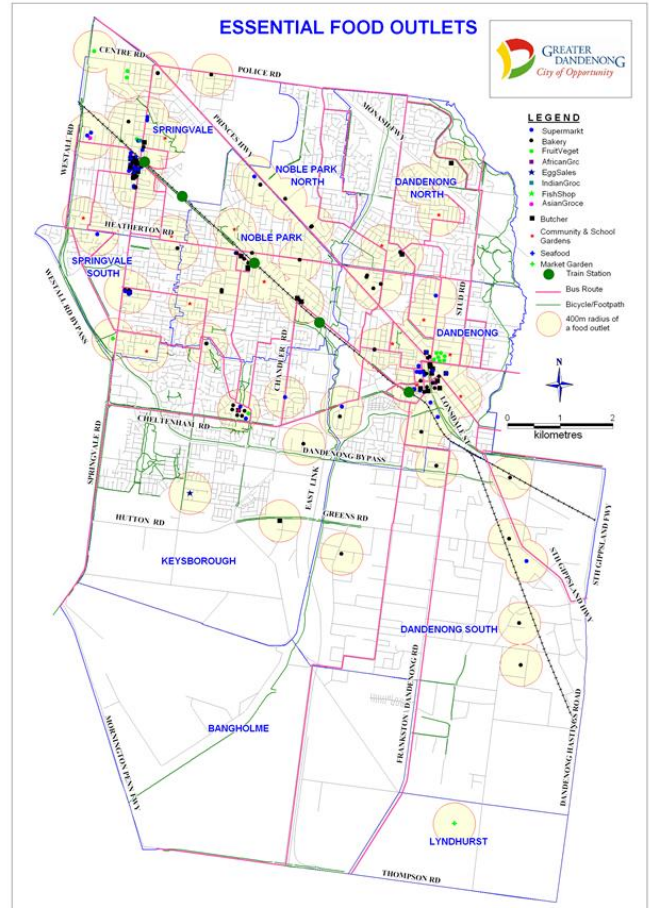
The 2014 Healthy Food Report* for the City of Greater Dandenong shows that increased geographic availability of food improves an individual's intake of fruit and vegetables. Residents who do not live near a supermarket are up to 46% less likely to have a healthy diet.

Essential food outlets include fruit and vegetable retailers, supermarkets, market gardens, community and school gardens, bakeries, butchers, seafood and poultry retailers, egg sales and cultural food outlets.

Unfortunately Greater Dandenong is saturated with non-essential food outlets, such as takeaway shops. The municipality has a ratio per 1000 people of 2.56 'non-essential' food outlets to every 1 'essential' food outlets.

Mapping of the geographic location of essential and non-essential food premises across the municipality identified that many residents live in 'food deserts' – where access to healthy food is more than 400 metres away.

Figure LF – 2.2 Location of Essential Food Outlets*



*Source: Healthy Food Access, Supply and Demand in the City of Greater Dandenong, 2014. p28.

Refer to <http://sustainable.greaterdandenong.com>

Highlights

17 local food outlets participating in the Healthy Bites program, which aims to increase the availability of healthy food options by educating local food outlets about healthy eating and increasing healthy food options for consumers. Council's Snowfest has 3 Healthy Bites accredited vendors.

Current Actions

Supporting and promotion of Healthy Bites through Council Events.

- **Ongoing | Responsibility – Community Arts, Culture & Libraries + Economic Development Unit**

Status

Ongoing

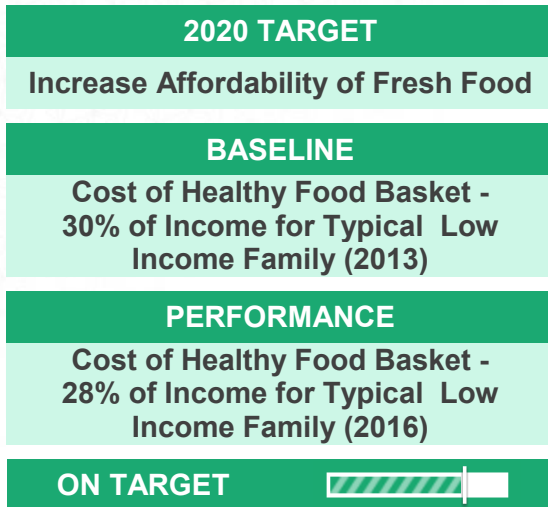
Completed Actions

Launch of Healthy Bites, a healthy dining program in February 2017 in City of Greater Dandenong in partnership with Monash Health Community. ✓



Community Objective: LF – 2.3 Affordability

Work with stakeholders to increase the affordability of fresh food within the municipality.



A recent survey* on average cost of a healthy food basket purchased within Greater Dandenong indicates that, for a low income typical family in the City of Greater Dandenong, the average cost has reduced slightly from 30% of their income in 2013* to 28% in 2016. Even with this slight decrease, this still suggests a high risk of food insecurity.

Figure LF – 2.3a Cost of Healthy Food for a low income family in Greater Dandenong (2016*)

Weekly Income	Average weekly cost of a Healthy Food Basket	% of income
\$733	\$205	28%

*Source: Monash Survey 2016 | *Source: Healthy Food Access, Supply and Demand in the City of Greater Dandenong, 2014.

According to the Australian Bureau of Statistics[^], low income households spend three times less on food than high-income households, with \$102 spent on food by households among the bottom 20% income levels, compared to \$328 spent on food by households among the highest 20% income levels.

Figure LF – 2.3b Average weekly spend on food and non-alcoholic beverages (2009-10 ABS Data[^])

Low Income Households - \$314 per week income



Expenditure on food - \$102 per week

Average Household Income - \$848 per week income



Expenditure on food - Average \$204 per week

Highest Income Households - \$1,704 per week income



Expenditure on food - Average \$328 per week

[^]Source: ABS Australian Household Expenditure Survey, 2009-10



Community Objective: LF – 2.4 Green Wedge

Support the expansion and diversification of agricultural activity in the Green Wedge (GW) area.

2020 Target

Monitor and Report

Baseline

1,037 Ha + 32 Businesses
(2011)

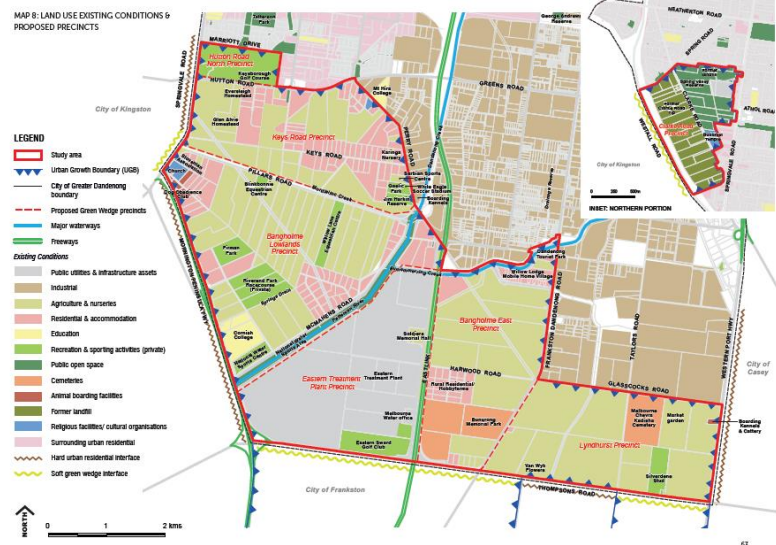
Performance

1,037 Ha + 32 Businesses
(2011)

ON TARGET



Figure LF-2.4 Land use and proposed precincts in Green Wedge



Source: Greater Dandenong Green Wedge Management Plan (Revised January 2017).

Refer to <http://sustainable.greaterdandenong.com>

Agriculture represents an important land use in the Greater Dandenong Green Wedge, although it is a small contributor economically to Greater Dandenong as a whole. In 2011, approximately 1,037 hectares (ha) of land, or 28% of the Green Wedge, was being used for agricultural purposes by approximately 32 businesses.

This mainly comprised of horticulture and livestock production, including:

- Nurseries, cut flowers, cultivated turf (11 businesses, 30ha.)
- Market gardens (6 businesses, 168 ha.)
- Intensive poultry (3 businesses)
- Extensive Cattle grazing (10 businesses, approx. 500ha.)
- Horse studs (4 businesses, 236 ha.)

Highlights

Adoption of 2014 Green Wedge Management Plan and Action Plan.

Approval of Green Wedge Policy Changes (Planning Scheme Amendment C143) by the Minister for Planning.

Current Actions

Continue to support the Greater Dandenong Regional Food Strategy initiatives in the Greater Dandenong Green Wedge.

- **Ongoing | Responsibility – Planning and Design**

Continue to support the expansion and diversification of agricultural activity.

- **Ongoing | Responsibility – Planning and Design**

Status

Ongoing

Ongoing

Completed Actions

Development of Green Wedge Land Management Fact Sheet.

✓

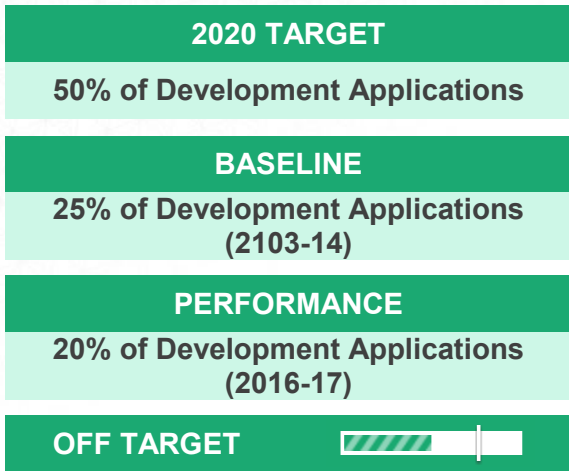
Preparation, exhibition and approval of Planning Scheme Amendment C143 for the Green Wedge.

✓



Community Objective: LF – 2.5 Planning

New development within the city to incorporate best practice food production and access requirements.



Council is working with property developers to address sustainability as part of their development planning application, including the ability to grow your own food and or access to fresh food.

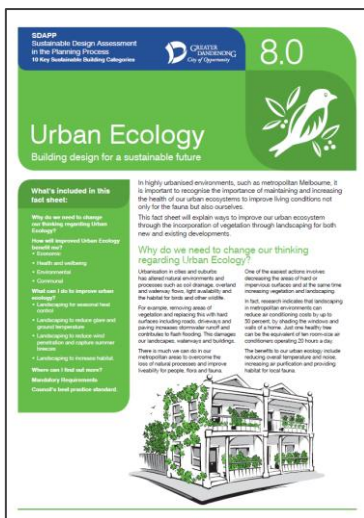
Council uses the Sustainable Design Assessment in the Planning Process (SDAPP) and Built Environment Sustainability Scorecard (BESS) to assess the sustainability of development applications.

Council assessed the Environmentally Sustainable Design (ESD) credentials of 67 new development applications in 2016-17. This equals 20% of all new development applications and 60% of medium and large applications – trigger levels for planning applications that require ESD report.

To help address these issues Council uses the SDAPP Fact Sheets – see Figure LF-2.4b:

- Urban Ecology
- Innovation.

Figure LF – 2.5b Urban Ecology and Innovation SDAPP Fact Sheets



Highlights

Adopted the Built Environment Sustainability Scorecard (BESS) an online assessment tool for planning applications.

Current Actions

Assessment of food and urban agriculture as part of development planning applications.

- Ongoing | Responsibility – Planning & Design + Transport & Civil Development

Status

Ongoing

Preparation of Local ESD Planning Policy for the Greater Dandenong Planning Scheme

- 2016-18 | Responsibility – Planning & Design

In Progress

Use the SDAPP framework and BESS assessment tool to assess planning applications.

- Ongoing | Responsibility – Planning & Design + Infrastructure Services

Ongoing

Completed Actions

Development and launch of SDAPP Fact Sheets for Greater Dandenong.





Community Objective: LF – 2.6 Awareness

Promote healthy diets and local sustainable food options for the broader community.

2020 TARGET
Monitor and Report
BASELINE
Existing Programs
PERFORMANCE
Existing Programs
ON TARGET

In 2016-17, Council undertook a range of activities to promote healthy diets and local sustainable food options for the broader community. Key initiatives included:

- Healthy Bites launch at the Dandenong Market and Parkmore Shopping Centre
- Healthy Bites at Council events
- Trial of edible food gardens in Council's parks and open spaces.
- Pop up community garden space in Central Dandenong
- The Sustainability Festival and Sustainability Awards.

In addition, Council worked in partnership with other stakeholders including Monash Health on regional projects such as the Healthy Bites dining program.

Figure LF – 2.6 Community Awareness

Healthy Bites Program



Pop-Up Garden @ Central Dandenong



Edible Food Garden @ Dandenong Park



Highlights

17 local food outlets participating in the Healthy Bites program, which aims to increase the availability of healthy food options by educating local food outlets about healthy eating and increasing healthy food options for consumers.
 Establishment of Pop Up Garden within Central Dandenong Pop Up Park enabling the community to grow produce.
 Establishment of the Edible Food Gardens in Dandenong Park.

Current Actions

Current Actions	Status
Ongoing promotion of local food through Council's website and publications, such as The City. <ul style="list-style-type: none"> ▪ Ongoing Responsibility – Communication & Customer Services + Economic Development Unit 	Ongoing
Ongoing trial of edible gardens displays to promote ability for community to grow own food. <ul style="list-style-type: none"> ▪ Ongoing Responsibility – Infrastructure Services 	Ongoing
Consider potential opportunities to establish new community gardens. <ul style="list-style-type: none"> ▪ Ongoing Responsibility – Economic Development Unit 	Ongoing
Work with Development Victoria and TRY Group to develop community garden in Halpin Way. <ul style="list-style-type: none"> ▪ 2016-18 Responsibility – Economic Development Unit 	In Progress

Completed Actions

Launch of Healthy Bites, a healthy dining program in February 2017 in City of Greater Dandenong in partnership with Monash Health Community.	✓
Establishment of Pop-Up-Park in Central Dandenong to support community members to grow produce.	✓



LOCAL COMMUNITY & CULTURE



Imagine a Liveable City with a healthy and thriving community, where its members enjoy optimal health in an environment that actively promotes productive, rewarding and socially inclusive lives.

OUR GOAL: A LIVEABLE CITY

Background

Greater Dandenong has the lowest medium weekly income in Victoria – in 2011 it was \$395 – 67% of \$590 Melbourne average. In addition, the municipality is the most culturally diverse municipality in Victoria, 60% of its population of 147,000 born overseas, from over 150 nationalities.

Council has established a range of objectives that will help integrate sustainability across each of these areas and will help increase awareness on sustainability, promote wellbeing, cultural diversity, safety and climate change resilience.

Corporate Objectives

Performance Indicator

CC – 1.1 Organisational Culture	141 Employees Responded to Survey (2016)	
CC – 1.2 Social Responsibility	Updated Procurement Policy (2016-17)	

Community Objectives

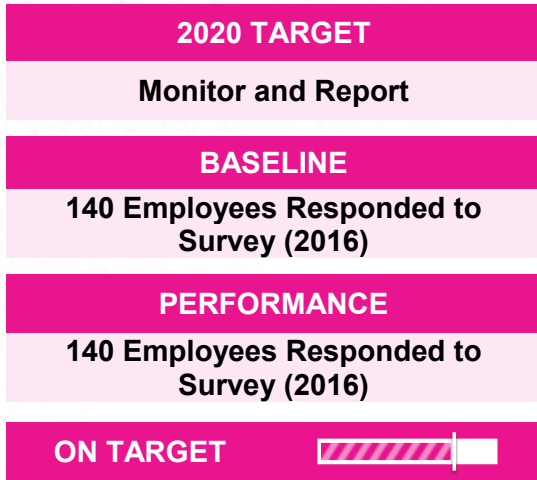
Performance Indicator

CC – 2.1 Health and Wellbeing	Profile of Health and Wellbeing in Greater Dandenong (2016)	
CC – 2.2 Culture and Diversity	Victoria's most culturally diverse municipality: 56% of residents born overseas (150+ countries) (2011)	
CC – 2.3 Crime and Safety	Perception of Safety Increased by 7% to 47% of Pop. (2016)	
CC – 2.4 Climate Change	Existing Policies and Strategies	
CC – 2.5 Affordability	Ave. income \$395 per week (2011) Ave. rent \$340 per week (3-bed) (2015)	
CC – 2.6 Awareness	Existing Programs	



Corporate Objective: CC – 1.1 Organisational Culture

Establish internal programs that help to create a culture of sustainability within Council.



In 2016, 140 employees of City of Greater Dandenong (CGD) completed the Sustainability Culture Indicator (SCI) survey.

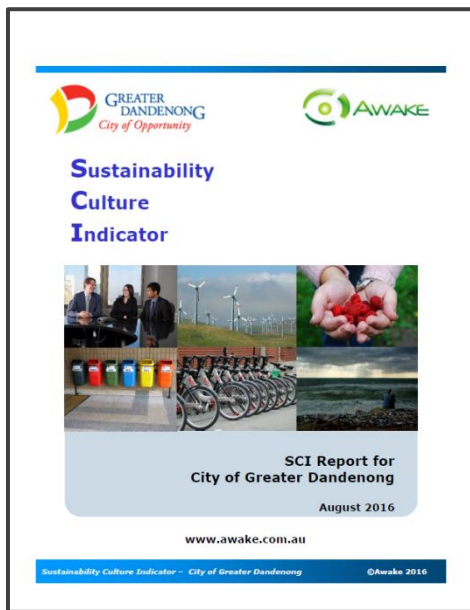
Purpose of Survey

The purpose of the survey was to get a better understanding of attitudes toward sustainability, and what factors are both helping and hindering staff to achieve sustainability outcomes.

Summary of Findings

Overall, there was a strong sense of the importance of sustainability, and a high level of personal responsibility towards it. Respondents feel positive about sustainability, and are regularly engaged in pro-environmental behaviours at home and at work.

Figure CC – 1.1 Cultural Survey Results



AREAS OF STRENGTH

- Strong belief in, and responsibility for, sustainability among respondents
- High perceived strategic commitment and leadership for sustainability
- Positive perception of the degree to which facilities support sustainability

AREAS FOR DEVELOPMENT

- Aligning processes with sustainability, especially paperless processes
- Further practical sustainability education
- Aligning rewards and recognition systems with sustainability

Highlights

Results from the SCI Survey in 2016 demonstrate that staff recognise the need to address sustainability issues and are willing to take responsibility and incorporate this function as part of their roles.

Current Actions

	Status
Investigate opportunities to build on the strong belief in sustainability and opportunities to address areas for development identified through the 2016 SCI survey. ▪ 2017-18 Responsibility – Planning & Design + People & Procurement Services	Not Started
Investigate opportunities to increase awareness of Council's Sustainability vision and framework as part of the corporate induction program for all new staff. ▪ 2017-18 Responsibility – Planning & Design + People & Procurement Services	Not Started
Hold a minimum of two sustainability focussed forums for Council staff to help increase awareness and foster a culture of sustainability within Council. ▪ 2017-18 Responsibility – Planning & Design + People & Procurement Services	Not Started



Corporate Objective: CC – 1.2 Social Responsibility

Investigate how to incorporate Corporate Social Responsibility Principles into Annual Sustainability Report.



Corporate Social Responsibility (CSR) focuses on taking positive action to deliver an organisation's commitment to the local community and environment.

For the City of Greater Dandenong, this means maximising the social, environmental and economic benefits of the services it provides across the community and minimising the negative aspects.

Council has integrated CSR into its organisational policies and practices through the 2017 Procurement Policy via its commitment to social, sustainable and local economic procurement objectives.

Social Procurement generates positive outcomes by building on initiatives already undertaken by Council in enhancing sustainable and strategic procurement processes. This enables procurement activities to contribute towards building stronger communities and meeting the social objectives of Council.

Figure CC – 1.2 Council's Social Procurement Policy

File Number	2017/4	Subject	Council
Document	Corporate Services	Responsible Officer	Manager, Policy and Procurement Services
Policy Name	Procurement	Issued By	Councillors
Effective Date	1 November 2017	Last Modified	11 May 2018
Control	Ministry 36, 305	Control	Ministry 36, 305
Review Date	11 May 2020	Next Review	11 May 2020

Council is committed to Social Procurement by:

- Ensuring all procurement activities and practices are sustainable and aligned with the broader Council objectives
- Ensuring all businesses have the same opportunity to bid for Council business
- Achieving value for money outcomes across the community through the use of effective procurement practices
- Building and maintaining a strong community by exploring ways to generate local employment and further strengthening of the local economy.

Highlights

Review and update of the Procurement Policy – incorporated .
Council's Staff Giving Program has received \$157,094 in total since its inception in 2008-09, with funds donated to eight local charities.

Current Actions

Current Actions	Status
Ongoing implementation of Council's Procurement Policy. ▪ Ongoing Responsibility – People & Procurement Services	Ongoing
Ongoing implementation of Council's Staff Giving Program. ▪ Ongoing Responsibility – People & Procurement Services	Ongoing
Continuation of Council's existing corporate social responsibility programs with partners such as Gateway Industries. ▪ Ongoing Responsibility – Engineering Services	Ongoing
Investigate opportunities to expand Council's corporate social responsibility programs. ▪ Ongoing Responsibility – Engineering Services	Ongoing

Completed Actions

Adoption of Procurement Policy that encourages social procurement.	✓
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Community Objective: CC – 2.1 Health and Wellbeing

Use Social Model of Health as a framework to create an environment that enhances the health and wellbeing of residents and workers.

2020 TARGET
Monitor and Report
BASELINE
Profile of Health and Wellbeing in Greater Dandenong (2016)
PERFORMANCE
Profile of Health and Wellbeing in Greater Dandenong (2016)
ON TARGET

A person's health is one of the most valued aspects used to determine an individual's quality of life. The OECD uses two key indicators to measure the status of one's health – Life Expectancy and Self-Reported Health.

Another critical determinate of a person's quality of life is 'wellbeing' or 'happiness'. Council has used the Personal Wellbeing Indicators, from VicHealth, to determine a score from 0-100 for an individual's wellbeing.

The primary indicators in Figure CC-2.1 provide a snapshot on the Health and Wellbeing of the residents in Greater Dandenong. For more information on secondary indicators; such as Smoking, Alcohol Consumption, Obesity Levels, Physical and Mental Wellbeing; visit the Sustainable Greater Dandenong website.

Note: In addition, Council currently uses the Social Model of Health as its framework for addressing underlying social, environmental and economic causes of poor health and wellbeing.

Figure CC – 2.1 Greater Dandenong Health and Wellbeing Indicators

LIFE EXPECTANCY*



**CGD Average: Female 84 Years
Male 79 Years**

**Victorian Average:
Female 84 | Male 80**

*Source: Department of Human Services 2007

SELF-REPORTED HEALTH⁺



**CGD: 31% Reported
Excellent or Very Good**

**Victorian Average:
46% Excellent or Very Good**

⁺Victorian Population Health Survey 2011

SUBJECTIVE WELLBEING[^]



**CGD: 76.1 out of 100
Personal Wellbeing Index**

**Victorian Average:
77.5 out of 100**

[^] Source: VicHealth Indicators 2011

Highlights

- City of Greater Dandenong became a Child Friendly City in 2015.
- Public exhibition of Draft Community Wellbeing Plan 2017–21.
- Profile of Health and Wellbeing in Greater Dandenong 2016.

Current Actions

- Development of the Community Wellbeing Plan 2017-21.
 - 2016-18 | Responsibility – Community Wellbeing
- Review of City of Greater Dandenong Alcohol Policy.
 - 2017-18 | Responsibility – Community Wellbeing
- Council membership of Gambling Alliance.
 - 2016-18 | Responsibility – Community Wellbeing

Status

- In Progress
- In Progress
- Ongoing

Completed Actions

- Updated and distributed Profile of Health and Wellbeing in Greater Dandenong 2016. ✓
- Development of the Cycling Strategy 2016-23. ✓
- Development of Draft Community Wellbeing Plan 2017–21 for public consultation. ✓
- Council has accomplished Mental Health and Wellbeing, Alcohol and Physical Activity benchmarks within the Workplace Achievement Program. ✓



Community Objective: CC – 2.2 Culture and Diversity

Work with partners and key stakeholders to help create an environment that helps to promote community participation, inclusion and equity, as well as recognising, responding and celebrating the arts, culture and diversity of Greater Dandenong.

2020 TARGET
Monitor and Report
BASELINE
CGD Health and Wellbeing Profile (2016)
PERFORMANCE
62% of residents born overseas 150+ countries (2016)
ON TARGET

Greater Dandenong is the most culturally diverse municipality in Victoria, with residents from over 156 nations.

In the 25 years to 2016, the proportion of residents born overseas rose from 46% to 62%**. Of the residents in Greater Dandenong that were born overseas a large % came from Vietnam, Cambodia, Sri Lanka, India, China, Afghanistan, New Zealand and Britain*.

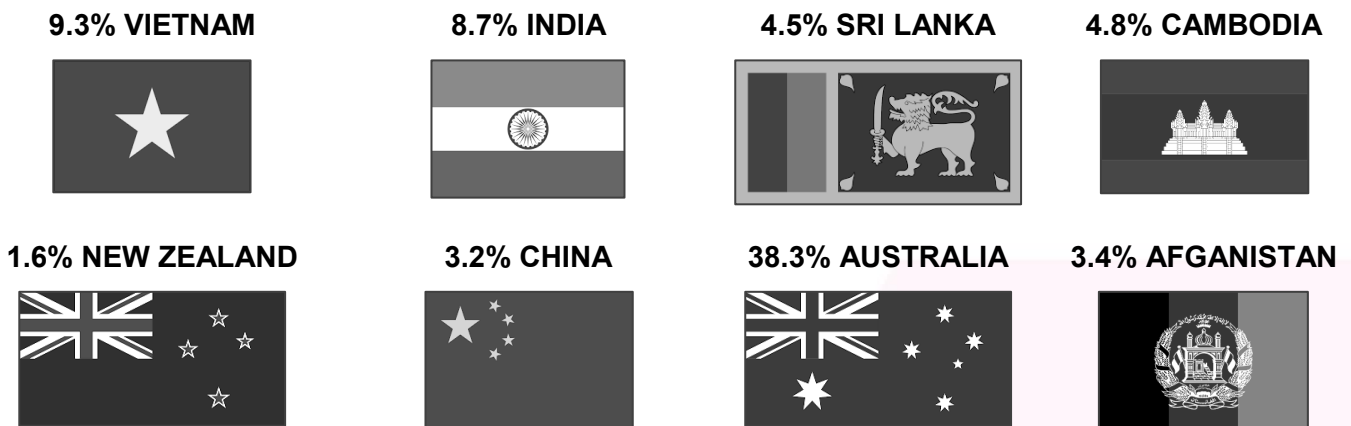
Other key facts:

- **68% of residents speak a language other than English.
- **41% of residents identified Christianity as their religion, 16% Buddhism, 13% Islam, 5% Hinduism and 19% no religion.

*Source: Profile of Health and Wellbeing in Greater Dandenong, 2016

**Source: ABS Census Data 2016

Figure CC – 2.2 Example Resident Countries of Birth in Greater Dandenong*



Highlights

- Establishment of the Asylum Seeker and Refugee Communities – Advisory Committee
- Series of events held as part of NAIDOC and Reconciliation Weeks.
- 112 Community Support Grants awarded in 2016 totalling \$340,749 to support local community projects.
- Establishment of Multicultural Advisory Committee.
- Development of Draft Reconciliation Action Plan 2017-19.

Current Actions

Current Actions	Status
Implementation of Asylum Seeker and Refugee Communities Action 2014-17 Plan – Year Three.	In Progress
<ul style="list-style-type: none"> ▪ 2015-17 Responsibility – Community Wellbeing 	
Facilitate Multicultural Advisory Committee and implement actions.	In Progress
<ul style="list-style-type: none"> ▪ 2017-19 Responsibility – Community Wellbeing 	
Endorsement and implementation Reconciliation Action Plan 2017-19.	In Progress
<ul style="list-style-type: none"> ▪ 2017-19 Responsibility – Community Wellbeing 	
Implementation of the City of Greater Dandenong Community Grants Programs to support activities that benefit the local community.	Ongoing
<ul style="list-style-type: none"> ▪ Ongoing Responsibility – Community Wellbeing 	

Completed Actions

Asylum Seeker and Refugee Communities Action Plan 2014-17 endorsed by Council – August 2014.	✓
Partnered with MAV to host the 2016 MAV Conference 'From Multiculturalism to Inclusion'.	✓



Community Objective: CC – 2.3 Crime and Safety

Work with partners and key stakeholders to help create an environment that will improve community perceptions of safety, and reduce the risk of crime and anti-social behaviour.

2020 TARGET
Monitor and Report
BASELINE (2014)
Perception of Safety 40% of Population (2014)
PERFORMANCE
Perception of Safety Increased by 7% to 47% of Pop. (2016)
ON TARGET

Crime rates in important categories have increased in Greater Dandenong and are currently amongst the highest in Melbourne.

2014-15 Greater Dandenong crime rates when compared to Melbourne were*:

- 47% higher for overall offences
- 68% higher for drug offences (3rd highest in Melbourne)
- 57% higher for public violent offences
- 26% higher for property offences.

In 2014, 40% of the Greater Dandenong community stated they felt safe alone in their local area after dark. In 2015, this figure rose to 48%. In 2016, the result was about the same at 47%^.

Finally in 2014 there were 807 substantiated violent family offences reported per 100,000 people in Greater Dandenong*.

*Source: Profile of Health and Wellbeing in Greater Dandenong 2016

^Source: Community Satisfaction Survey

Figure CC – 2.3 Crime and Safety Statistics

CRIME RATES⁺



Against People
1673 per 100,000 (2014)

Against Property
5710 per 100,000 (2014)

⁺Source: Community Indicators Victoria

PERCEIVED SAFETY[#]



Felt Safe Walking at Night
2014 – 40% of Community
2016 – 47% of Community

[#]Source: Community Satisfaction Survey

FAMILY VIOLENCE[>]



Alleged Family Offence
807 per 100,000 (2014-15)

Alleged Child Abuse
1100 per 100,000 (2011-12)

[>]Source: Profile of Health and Wellbeing in Greater Dandenong 2016

Highlights

Implementation of the Greater Dandenong Community Safety Plan 2015-22.

Annual Community Safety Night in October.

Development and Implementation of Operation Bounce Back – an education program to help to reduce car theft

Current Actions

Implementation of Greater Dandenong Community Safety Plan 2015-22 – Year Two.

- **2015-22 | Responsibility – Community Wellbeing**

Implementation of Council's city-wide Safe City CCTV program.

- **Ongoing | Responsibility – Regulatory Services**

Review the design and implementation of community safety, amenity and connectivity infrastructure for the Ross Reserve Master Plan, Noble Park.

- **2016-18 | Responsibility – Planning & Design + City Improvement**

Review of City of Greater Dandenong Alcohol Policy.

- **2017-18 | Responsibility – Community Wellbeing**

Implement Public Safety Infrastructure program as part of Dandenong Park redevelopment.

- **2017-20 | Responsibility – Community Wellbeing + City Improvement**

Status

In Progress

Ongoing

In Progress

In Progress

In Progress

Completed Actions

Installation of safety infrastructure and place activation in Ross Reserve, Noble Park. ✓

Crime Prevention Through Environmental Design principles used to review the Level Crossing Removal project and Springvale Civic Hub projects. ✓



Community Objective: CC – 2.4 Climate Adaptation

Work with partners and stakeholders to help protect vulnerable residents from extreme weather events through the implementation of key strategies and programs.



Climate change affects the social and environmental determinants of health – clean air, safe drinking water, sufficient food and secure shelter.

Climate change also affects the planning and day-to-day operations of governments and other organisations around the world. Increased climate change resilience requires a risk management approach that includes:

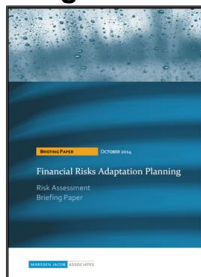
- identifying the risks resulting from climate change impacts
- assessing and prioritising those risks that require further action
- Implementing processes to effectively manage higher priority risks.

Council is taking a dual approach to reduce the risks associated with climate change – mitigation efforts that focus on tackling the causes and adaptation to increase resilience to the associated impacts. The Council Plan 2017-21 identifies the creation of a Climate Change Strategy as a key action to prepare for climate change.

Council is also working with key partners to reduce the impacts of climate change, especially those that impact on the health of the local community.

Figure CC – 2.4 Climate Change Projects and Partners

SECCCA (South East Councils Climate Change Alliance)



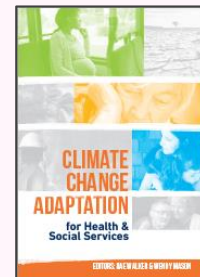
FINANCIAL RISK ADAPTATION PLANNING – A Business Case

RISK MANAGEMENT



FRAMEWORK AND STRATEGY

ENLIVEN



CLIMATE CHANGE ADAPTATION – For Health & Social Services

Current Actions

Current Actions	Status
Develop a Climate Change Strategy for Council and the City of Greater Dandenong. <ul style="list-style-type: none"> ▪ 2017-20 Responsibility – Planning & Design + People & Procurement Services 	Not Started
Consideration of Climate Change as part of the development of the City of Greater Dandenong Community Wellbeing Plan 2017-21 and Annual Action Plan. <ul style="list-style-type: none"> ▪ 2017-18 Responsibility – Community Wellbeing 	In Progress
Ongoing implementation of the Greater Dandenong Risk Management Framework and the Municipal Emergency Management Plan. <ul style="list-style-type: none"> ▪ Ongoing Responsibility – People & Procurement Services 	Ongoing
Work with SECCCA to develop & implement programs to increase community resilience to climate change. <ul style="list-style-type: none"> ▪ Ongoing Responsibility – Planning & Design + People & Procurement Services 	Ongoing
Continue to support and work with ENLIVEN to reduce health impacts of climate change on the local community. <ul style="list-style-type: none"> ▪ Ongoing Responsibility – Planning & Design + People & Procurement Services 	Ongoing



Community Objective: CC – 2.5 Affordability

Work with partners and stakeholders to help manage the housing affordability and associated cost of living.

2020 TARGET
Monitor and Report
BASELINE
Ave. income \$395 per week (2011) Ave. rent \$340 per week (2015)
PERFORMANCE
Ave. income \$475 per week (2016) Ave. rent \$360 per week (2017)
ON TARGET

The medium detached house price for Greater Dandenong in 2017 is \$625,000 a substantial increase from medium price in 2015 of \$450,000*.

In 2017, the average cost of renting a three-bedroom house per week in Greater Dandenong was \$360 – in 2015 the average cost was \$340*.

**In 2016, the average gross income in Greater Dandenong reached \$475 per week, a substantial increase on the \$395 in 2011, but still the lowest in Metropolitan Melbourne.

*Source: Core Logic / REIV Data **Source: ABS Census Data

Figure CC – 2.5 Average Income and Housing Affordability*

INCOME



**Greater Dandenong
Average Gross Income
\$475 per week (2016)**

**Average Household Income
\$1,168 per week (2016)**

HOUSING



**Medium Rent 3-Bed House
\$360 per week (2017)**

**Medium House Price
\$625,000 (2017)**

*Source: Profile of Health and Wellbeing in Greater Dandenong 2016

Highlights

Formal adoption by Council of the 2014-24 Greater Dandenong Housing Strategy.

Commencement on delivery of actions in the 2014-24 Greater Dandenong Housing Strategy.

Amendment C182 – residential planning rules to improve the quality and design of new housing.

Current Actions

Provide assistance to housing associations seeking to develop social and/or affordable housing projects that support vulnerable CGD residents.

- **Ongoing | Responsibility – Planning & Design + Community Wellbeing + Economic Development Unit**

Continue to offer rate rebates to vulnerable households through the Rates and Charges Hardship Policy.

- **Ongoing | Responsibility – Financial Services**

Status

Ongoing

Ongoing



Community Objective: CC - 2.6 Awareness

Work with partners and key stakeholders to help increase the awareness of the general community on the benefits of sustainable living.

2020 TARGET
Monitor and Report
BASELINE
Existing Programs
PERFORMANCE
Existing Programs
ON TARGET

Council has committed to empowering the community, through its engagement and educational programs, to enable them to act on sustainability issues.

Examples of current programs and activities that Council is undertaking with partners and key stakeholders include:

- annual Family Sustainability Festival and Awards
- establishment of the Sustainability Reference Committee for the City of Greater Dandenong
- edible food gardens in Dandenong Park
- 'Pop-up' community gardens in central Dandenong
- Establishment of *Environmental Upgrade Agreements* (EUA's) to support local businesses.
- trial of the Victorian Government's new *Residential Efficiency Scorecard* with Greater Dandenong households.
- environmental education activities run by Council's Parks and Waste Teams.

Figure CC – 2.6a Sustainability Festival & Awards Raising Community Awareness



Figure CC – 2.6b Greater Dandenong Sustainability Partners in 2017 include:

 Residential Efficiency Scorecard trial	 Sustainable Development	 Pop-up community gardens	 Environmental Upgrade Agreements with local businesses	 Sustainability Festival & Awards
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Current Actions

Current Actions	Status
Deliver the Greater Dandenong Family Sustainability Festival and Awards program. <ul style="list-style-type: none"> ▪ Ongoing Responsibility – Planning & Design 	Ongoing
Develop and Implement the 2017-18 Waste and Litter Strategy's Action Plan & Annual Waste Education Plan. <ul style="list-style-type: none"> ▪ Ongoing Responsibility – Infrastructure Services & Planning 	Ongoing
Ongoing implementation of Council's Parks Team's community environmental education program. <ul style="list-style-type: none"> ▪ Ongoing Responsibility – Infrastructure Services & Planning 	Ongoing
Use of Council's website, publications and social media to increase community engagement towards sustainability. <ul style="list-style-type: none"> ▪ Ongoing Responsibility – Comm. and Customer Service + Planning & Design 	Ongoing
Work with partners and key stakeholders to help increase community engagement towards sustainability. <ul style="list-style-type: none"> ▪ Ongoing Responsibility – Relevant Departments 	Ongoing



LOCAL BUSINESS & ECONOMY



Imagine a city where people of all ages and backgrounds can reach their potential, gain the skills and education they need for success, and be part of a resilient, sustainable and prosperous economy where trade, manufacturing and business flourish.

OUR GOAL: A CITY OF OPPORTUNITY

Background

Greater Dandenong is recognised as an economic hub for Melbourne and Victoria. 30% of jobs within Greater Dandenong are in the manufacturing sector, with the broader region generating 42% of Victoria’s manufacturing output. There is a population catchment of over 1.3 million people that live within a 20km radius of Central Dandenong, emphasising the economic importance of its location and reinforcing its position as the capital of the south east region.

Council has established a range of objectives for the Local Business and Economy Theme. These objectives will help attract investment in green enterprise, help support locally based sustainable businesses, encourage local businesses to improve their own sustainability practices and sustainable business model and help provide green employment and skill development opportunities for residents.

Corporate Objectives

Performance Indicator

BE – 1.1 Professional Development

General Staff Training: 7178 hours



BE – 1.2 Fair Trade

Updated Procurement Policy |
Purchasing Fairtrade Tea and Coffee (2016-17)



Community Objectives

Performance Indicator

BE – 2.1 Green Investment

Limited Data

NOT AVAILABLE

BE – 2.2 Operation and Efficiency

Limited Data

NOT AVAILABLE

BE – 2.3 Manufacturing and Resources

SEBN 2016-17 Lean and Green events:
10 Activities | 17 Companies | 131 Participants
| 28 Businesses registered for ASPIRE



BE – 2.4 Education and Skills

Limited Data

NOT AVAILABLE

BE – 2.5 Awareness


Existing Programs





Community Objective: BE – 1.1 Professional Development

Support staff with their professional development, especially around key sustainability issues.

2020 TARGET
Monitor and Report
BASELINE
General Staff Training: 7056 hours recorded (2015-16)
PERFORMANCE
General Staff Training: 7178 hours recorded (2016-17)
ON TARGET 

The City of Greater Dandenong (Council) is committed to developing and growing the capacity of staff within the organisation. This supports both the engagement of staff and facilitates Council achieving its strategic objectives of meeting community needs and obligations under State and Federal legislation.

In 2016-17 there was a total of 3210 hours of general professional staff training recorded, consisting of:

- 5577 hours - Corporate Professional Development Programs
- 1601 hours - External Training
- 10 staff were granted study assistance

Staff training provided ranged from OH&S and Corporate Induction Programs for new staff, to specific position / department training or formal education such as the use of IT systems or Project Management.

Figure BE – 1.1 Professional Development



Highlights

Council providing study assistance to a staff member undertaking sustainability related Master's Degree.

Current Actions

Current Actions	Status
Investigate opportunities to increase awareness of Council's Sustainability vision and framework as part of the corporate induction program for all new staff. <ul style="list-style-type: none"> ▪ 2017-18 Responsibility – Planning & Design 	Not Started
Hold a minimum of two sustainability focussed forums for Council staff to help increase awareness and foster a culture of sustainability within Council. <ul style="list-style-type: none"> ▪ 2017-18 Responsibility – Planning & Design + People & Procurement Services 	Not Started
Implement Council's Staff Training and Professional Development Policy. <ul style="list-style-type: none"> ▪ Ongoing Responsibility – People & Procurement Services 	Ongoing

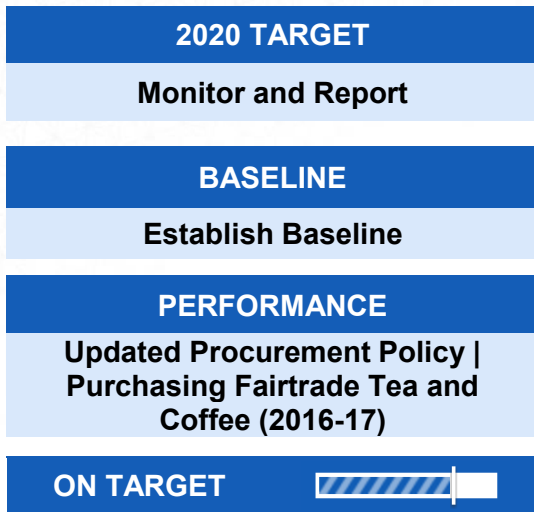
Completed Actions

Sustainability included as part of corporate induction program for all new staff. ✓



Community Objective: BE – 1.2 FairTrade

Investigate how best to incorporate key Fair Trade Principles into Council's procurement and policy processes.



Fair trade represents an alternative approach to conventional trade and is based on a partnership between producers and traders, businesses and consumers. It advocates for the payment of higher prices to exporters, as well as higher social and environmental standards.

Council has committed to investigating how to effectively incorporate the principles of fair trade into its operations. Council's updated 2017 Procurement Policy states that Council will actively promote green procurement, and aims to achieve this by Giving a preference to Fairtrade, or equivalent and ethically sourced and produced goods and services. Council is currently investigating the implications of formal fair trade accreditation on its operations.

Figure BE – 1.2 FairTrade



Fair Trade for Organisations



Fairtrade for Products

When written as two words, Fair Trade refers to a number of organisations including the Fair Trade Association of Australia and New Zealand (FTA-ANZ) and the World Fair Trade Organization (WFTO).

Fair Trade refers to the social movement for organisations that seeks to actively engage in supporting producers, raising awareness of and in campaigning for changes in the rules and practices of conventional international trade

When written as one word, Fairtrade refers to the product certification label. A business can use the Fairtrade Label on products following a certification process administered by the Fairtrade Labelling Organisation International (FLO-I).

Note: A business does not necessarily have to be an accredited Fair Trade Organisation to be eligible to supply Fairtrade Products.

Highlights

Council's procurement policy seeks to actively promote green procurement by aiming to give preference to Fairtrade or equivalent and ethically sourced and produced goods and services.

Current Actions

	Status
Support the Fair Trade movement by purchasing certified Fairtrade products such as tea and coffee. <ul style="list-style-type: none"> ▪ Ongoing Responsibility – People & Procurement Services 	Ongoing
Implementation of Council's Procurement Policy including actively promoting green procurement. <ul style="list-style-type: none"> ▪ Ongoing Responsibility – People & Procurement Services 	Ongoing
Council is currently investigating the implications of formal fair trade accreditation on its operations. <ul style="list-style-type: none"> ▪ 2016-18 Responsibility – People & Procurement Services 	Ongoing

Completed Actions

Adoption of updated Procurement Policy that encourages green procurement including Fairtrade products.	✓
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Community Objective: BE – 2.1 Green Investment

Work in partnership to support and encourage the establishment, relocation or expansion of suitable green businesses within Greater Dandenong.

2020 TARGET
Monitor and Report
BASELINE
Establish Baseline
PERFORMANCE
Limited Data
NOT AVAILABLE

Green businesses can be defined as those businesses that strive to be environmentally and socially responsible through a Triple Bottom Line approach: People, Planet and Profit.

These businesses adopt principles, policies and practices that minimise their negative impacts on the environment and help improve the quality of life of their employees, customers and communities.

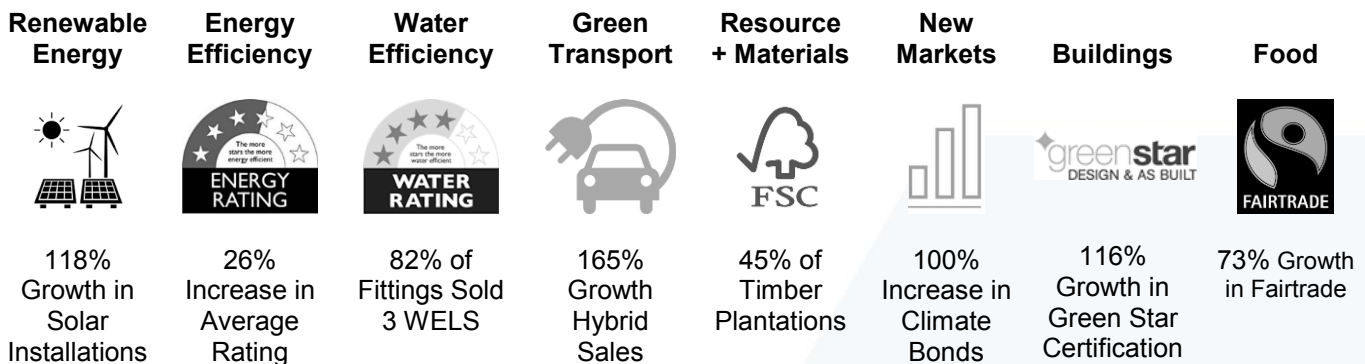
Our economy is transforming as a result of global trends based on new technologies, environmental pressures and consumer sentiment. Green businesses that understand and adapt to these changes and embrace new opportunities can achieve a competitive advantage and prosper into the future.



42% OF VICTORIA'S MANUFACTURING OUTPUT IS GENERATED IN THE SOUTH EAST MELBOURNE REGION*

*Source: City of Greater Dandenong, City of Opportunity Come take advantage

Figure BE – 2.1 Australia's Booming Demand for Sustainable Products and Services[^]



[^]Source: The Next Boom, A surprise new hope for Australia's economy? Future Business Council, 2015

Highlights

Successful 2017 Sustainability Awards program delivered with the South East Business Networks (SEBN).

Current Actions

Current Actions	Status
Plan, promote and deliver 2018 CGD annual sustainability awards program. <ul style="list-style-type: none"> 2017-18 Responsibility – Sustainability Planning Unit + South East Business Networks 	Ongoing
Promote relevant external Sustainability Award programs to the local business community. <ul style="list-style-type: none"> Ongoing Responsibility – Economic Development Unit 	Ongoing
Undertake survey of local businesses to develop baseline for green businesses. <ul style="list-style-type: none"> 2017-18 Responsibility – South East Business Networks + Economic Development Unit 	In Progress
Promotion of green businesses (including products and services) in Stakeholder Magazine. <ul style="list-style-type: none"> Ongoing Responsibility – Economic Development Unit 	Ongoing

Completed Actions

- Greater Dandenong Sustainability Strategy presented to the business community at industry breakfast March 2017.
- Smart Recycling winner 2017 Greater Dandenong Sustainability Awards Sustainable Business.
- Newlands winner 2017 Greater Dandenong Sustainability Awards Sustainable Development for 'The Quarter'.
- 11 separate articles featured local sustainable businesses, projects or developments in Stakeholder magazine.
- The Victorian Premiers Sustainability Award program promoted to local businesses through Stakeholder magazine.



Community Objective: BE – 2.2 Operation and Efficiency

Work in partnership to support all types of businesses throughout Greater Dandenong save money by reducing their energy and water consumption.

2020 TARGET
Monitor and Report
BASELINE
Establish Baseline
PERFORMANCE
Limited Data
NOT AVAILABLE

A 2014-15 survey by the Australian Bureau of Statistics on the environmental management practices of Australian businesses* found that the percentage of businesses that attempted to reduce consumption and / or improve efficiency was 31.6% for water and 40.6% for energy.

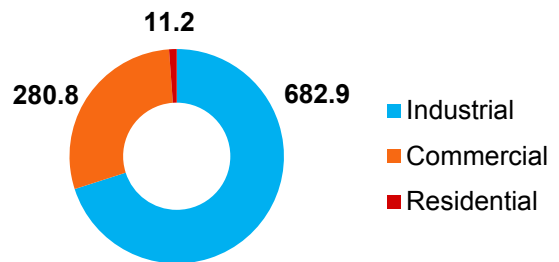
With Greater Dandenong’s estimated 12,500 businesses and 76,500 jobs contributing to an estimated economic output of \$28 billion[^], the results of the ABS survey would indicate that there are opportunities for businesses across the municipality to increase their sustainability, both environmentally and economically.

Electricity usage data provided by United Energy shows that in 2016 that for the Industrial sector, each customer used on average 682.9 MWh. This is significantly higher electricity usage than for the average customer from the Commercial sector (280.8MWh) or Residential sector (11.2MWh).

Figure BE – 2.2a Economic Facts – City of Greater Dandenong[^]



Figure BE – 2.2b - 2016 MWh electricity usage per customer - City of Greater Dandenong⁺



[^]Source: City of Greater Dandenong | Our Economy, 2015

⁺ Source: United Energy

Highlights

Council entered into a two year agreement with the Sustainable Melbourne Fund to provide Environmental Upgrade Agreements to eligible businesses within Greater Dandenong.

Current Actions

	Status
Work with other areas of Council to implement the internal systems required to support the offer of Environmental Upgrade Agreements ▪ 2017-19 Responsibility – Sustainability Planning Unit	In Progress
Promote EUA's to local high energy users through Council's website, the Stakeholder magazine and other opportunities. ▪ 2017-19 Responsibility – Economic Development Unit + South East Business Networks	In Progress
Promote opportunities to local businesses to reduce their energy and water usage, through Council's website, the Stakeholder magazine and other opportunities. ▪ Ongoing Responsibility – Economic Development Unit + South East Business Networks	Ongoing
Recognise and promote local sustainable businesses through annual Greater Dandenong Sustainability Awards. ▪ Ongoing Responsibility – Economic Development Unit + South East Business Networks	Ongoing

Completed Actions

	Status
Business Sustainability incorporated into the assessment for applications for the CGD Small Business Grants Program.	✓
A two page "Sustainability" feature included in the June 2017 Stakeholder magazine.	✓



Community Objective: BE – 2.3 Manufacturing and Resources

Work in partnership to encourage manufacturing sector to address resource efficiency and ‘people, profit, planet’ in both strategic planning and operational efficiency.

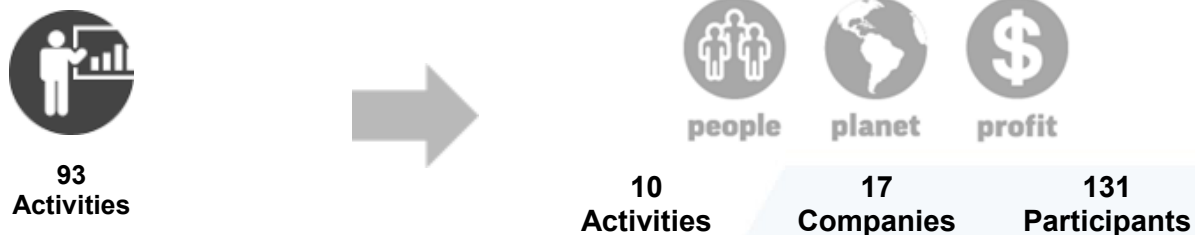
2020 TARGET
Monitor and Report
BASELINE
11 Activities 95 Companies 187 Participants (SEBN) 15 Business registered for ASPIRE (2015-16)
PERFORMANCE
10 Activities 17 Companies 131 Participants (SEBN) 28 Business registered for ASPIRE (2016-17)
ON TARGET

A 2014-15 survey by the Australian Bureau of Statistics on the environmental management practices of Australian businesses[^] found that manufacturing businesses were considerably more likely to undertake measures to reduce energy (51%) and water use (37.4%) or recycle (35.5%) than address resource efficiency (14.9%).

As part of the City of Greater Dandenong’s efforts to improve the sustainability of local businesses over the past 10 years, Council’s South East Business Network (SEBN) delivers each year* a number of Lean and Green events, programs and continuing activities designed to encourage business and industry to increase their sustainability profiles with a focus on ‘people, planet, profit’ as a means of competitive advantage.

Council, in collaboration with the CSIRO and other participating local councils, continues to promote and encourage participation in the ASPIRE resource exchange project – with 28 businesses registered at August 2017.

Figure BE – 2.3a SEBN Activities 2016-17*



*In 2016-17 SEBN delivered 93 events, programs and activities for local businesses, 9 of which specifically included a focus on People, Planet and Profit.

Highlights

SEBN Industry Breakfast and 2017 Sustainability Awards event held 30 March 2017.

Current Actions

Current Actions	Status
Undertake survey of local businesses to develop baseline of their progress in improving their resource efficiency and materials reuse processes. ▪ 2017-18 Responsibility – South East Business Networks + Economic Development Unit	In Progress
Continue to promote and encourage participation in the ASPIRE resource exchange project. ▪ Ongoing Responsibility – South East Business Networks (SEBN)	Ongoing
Continue to raise awareness, provide exposure to good practice and encourage adoption of all disciplines of sustainability across all SEBN networks and activities. ▪ Ongoing Responsibility – South East Business Networks (SEBN)	Ongoing
Promote opportunities to local businesses to reduce their energy and water usage through Council’s website, the Stakeholder magazine and other opportunities. ▪ Ongoing Responsibility – Economic Development Unit + South East Business Networks	In Progress
Identify opportunities for Council and Sustainability Victoria to work collaboratively together to assist businesses in Greater Dandenong and the region to encourage resource efficiency. ▪ 2017-18 Responsibility – South East Business Networks + Planning & Design	In Progress

Completed Actions

Continued support for online Advisory Service for Process Information and Resource Exchange (ASPIRE) to help businesses cut waste disposal costs and facilitate collaboration between local businesses.	✓
Application by the City of Greater Dandenong (but unsuccessful) for funds through Sustainability Victoria’s Energy Efficiency Capability Grants program to work with local businesses.	✓



Community Objective: 2.4 Education and Skills

Work in partnership with education institutions, training providers, social enterprises and other businesses to help provide residents with skills for an innovative and sustainable future.

2020 TARGET
Monitor and Report
BASELINE
Establish Baseline
PERFORMANCE
Limited Data
NOT AVAILABLE

Greater Dandenong Council, in partnership with the Victorian Government, local employment agencies, industry, and education providers, has formed the Greater Dandenong Employment Taskforce whose activities focus on 'supply and demand' of talent to ensure that businesses have access to the 'best fit' talent for their employment needs, improving employment opportunities across Greater Dandenong.

Figure BE – 2.4 Training and Education Providers located in Greater Dandenong *

Educational Institution

13 State Primary Schools
5 State Secondary Schools
10 Privately funded Schools
3 Tertiary campuses

Training Providers

10 Registered Training Organisations with a presence in Greater Dandenong

Social Enterprise

2011 Social Enterprise Survey*:
10 participants
\$41 Million income
352 Volunteers
1,049 Employees
60% local employees

*Source: Social Enterprises in Greater Dandenong, City of Greater Dandenong 2011

Highlights

Victorian Government funding for SEBN to chair the Greater Dandenong and Regional Employment Taskforce.

The 1% Project – supporting employers to recruit 1% of their workforce to support disadvantaged jobseekers.

Establishment of the Mayoral Youth Employment Taskforce to provide advice to Council on developing a localised and coordinated response to rising rates of local youth unemployment and disengagement.

Current Actions

Current Actions	Status
Implementation of the Mayoral Youth Employment Taskforce. ▪ 2016-18 Responsibility – Community Wellbeing	In Progress
Continue to support the local Social Enterprise sector and encourage business skill development and expansion of employment opportunities. ▪ Ongoing Responsibility – Economic Development Unit (EDU)	Ongoing
SEBN to investigate training courses provided within Greater Dandenong to establish baseline. ▪ 2017-18 Responsibility – South East Business Networks	In Progress
SEBN to continue its position on the South East Region ACFE Committee and continue to advocate for business-appropriate course curriculum. ▪ 2016-18 Responsibility – South East Business Networks (SEBN)	In Progress
Implement the 1% program – Encouraging employers to source 1% of their workforce from those needing a helping hand into work – or back to work. ▪ Ongoing Responsibility – South East Business Networks (SEBN)	Ongoing
Implement the Postcode 3175 and 3177 Community Revitalisation project. ▪ Ongoing Responsibility – South East Business Networks (SEBN)	Ongoing
Council to provide support for local businesses and local social enterprise businesses in accordance with Council's Local Economic and Employment Development Strategy and Procurement Policy. ▪ Ongoing Responsibility – Economic Development Unit + SEBN	Ongoing

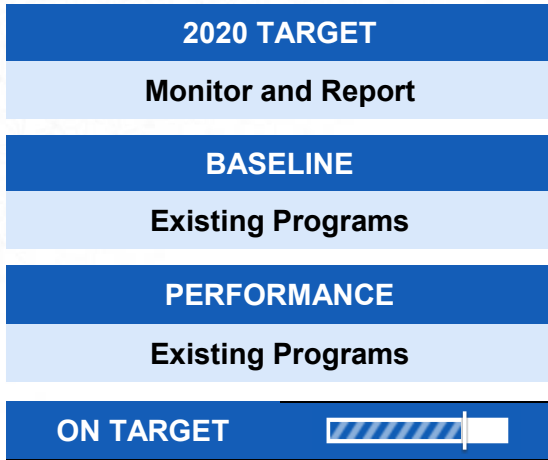
Completed Actions

Establishment of the Mayoral Youth Employment Taskforce	✓
Update of Council's Procurement Policy.	✓



Community Objective: 2.5 Awareness

Engage and empower the business community to help them benefit from adopting sustainable business practices.



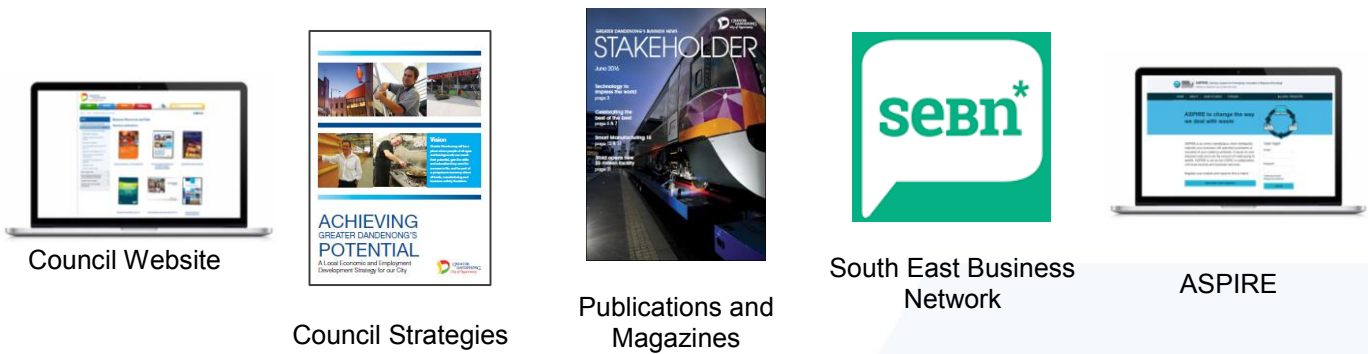
While Council works within a broader economic and policy context, the local economy has a number of challenges that require attention at the local level if the area is to be sustainable and prosperous into the future.

This includes:

- Local employment and labour force issues,
- Development and sustainability of the City's extensive industrial precincts
- Ensuring that the local economy is positioned for a carbon-constrained future.

Based on a commitment to developing a sustainable region and acknowledging the balance between social and economic development and environmental responsibility, Council has the opportunity to positively influence outcomes through its information, business support programs and advocacy.

Figure BE – 2.5 Examples of business support programs, advocacy and information



Highlights

28 Businesses now registered for the Advisory Service for Process Information and Resource Exchange (ASPIRE) to help businesses cut waste disposal costs and facilitate collaboration between local businesses.

Council entered into a two year agreement with the Sustainable Melbourne Fund to provide Environmental Upgrade Agreements (EUA's) to eligible businesses within Greater Dandenong.

Smart Recycling - winner of 2017 Greater Dandenong Sustainability Award's Sustainable Business.

Current Actions

	Status
Deliver the 2017-18 Annual Greater Dandenong Sustainability Business Awards.	In Progress
<ul style="list-style-type: none"> ▪ 2017-18 Responsibility – Economic Development Unit + Planning & Design + SEBN 	In Progress
Promote EUA's to local businesses through Council's website, the Stakeholder magazine and other opportunities.	In Progress
<ul style="list-style-type: none"> ▪ 2017-19 Responsibility – Economic Development Unit + South East Business Networks 	Ongoing
Continue to raise awareness, provide exposure to good practice and encourage adoption of all disciplines of sustainability across all SEBN networks and activities.	Ongoing
<ul style="list-style-type: none"> ▪ Ongoing Responsibility – South East Business Networks 	Ongoing
Promote opportunities to local businesses to reduce their energy and water usage through Council's website, the Stakeholder magazine and other opportunities.	Ongoing
<ul style="list-style-type: none"> ▪ Ongoing Responsibility – Economic Development Unit + South East Business Networks 	Ongoing

Completed Actions

Delivery of the 2016-17 Annual Greater Dandenong Sustainability Awards.	✓
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Disclaimer

The information contained in this 2015-16 Annual Sustainability Report is provided in good faith and has been derived from sources believed to be reliable and accurate. The City of Greater Dandenong does not guarantee the document is without flaw of any kind and therefore no warranty as to the accuracy or completeness of this information is given and no responsibility is accepted by the City of Greater Dandenong or its employees for any loss or damage arising from reliance on the information provided.

