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# 2017-18 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 this vision has 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 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.

Keep Victoria Beautiful recognised Greater Dandenong’s work by awarding Council 4 awards at its Sustainable City Awards. And, the Climate Council recognised Council by shortlisting Greater Dandenong for the 2018 Cities Power Partnership Awards.

### 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
<b>Exceeds Target</b>		Currently exceeding Target	4
<b>On Target</b>		On track to meet Target	51
<b>Off Target</b>		Measures in place - not on track to meet Target	20
<b>Action Required</b>		Action required - not on track to meet Target	3
<b>Not Available</b>		Status not available due to limited data	4

## 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

### Performance Indicator



BO – 1.2 Open Space



BO – 1.3 Vegetation



### 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





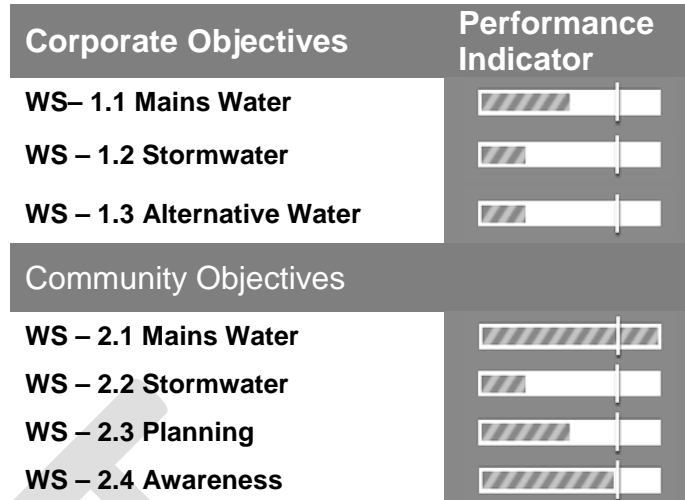
## 2. Water & Stormwater

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.



## 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.



## 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. The 2016 Census data indicates 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.





## 5. Climate & Energy

Council plays its part in reducing the impacts of global warming through recent actions such as the energy efficient street light program and implementation of the building energy management plan. Council's uptake of renewable energy sources such as solar panels has been limited to date, but will increase with the installation of a 100 kW solar PV system on the Dandenong Civic Centre and a 200kW solar PV system at the Springvale Community Precinct.

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 indicates 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 corporate buildings Council adopted a Sustainable Buildings Policy in 2017.

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.

For new development applications in Greater Dandenong, Council has pursued the inclusion of a Local ESD Policy in the Planning Scheme

The table to the right indicates how Council is tracking against the Objectives in the Buildings and Place 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. Important given that:

- Many residents look likely to have greater access to fast food outlets than fresh food outlets.
- For families on low incomes, the relative amount of income spent on healthy food basket 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 2018. 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 is an Accredited FairTrade Workplace and has incorporated Fair Trade requirements into its procurement and purchasing policies as part of 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 indicates 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	
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	
BO – 1.2 Open Space	4.3 Ha. / 1,000 Residents	
BO – 1.3 Vegetation	Planted 2,491 trees   26,772 seedlings	

## Community Objectives

## Performance Indicator

BO – 2.1 Ecological Value	Limited Data	NOT AVAILABLE
BO – 2.2 Open Space	Good Access = 76% of Residents	
BO – 2.3 Green Wedge	Flora Mapping Completed	
BO – 2.4 Planning	22% of Development Applications	
BO – 2.5 Awareness	94 events and activities   4,191 attendees	





## 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 2018-19

### ON 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.

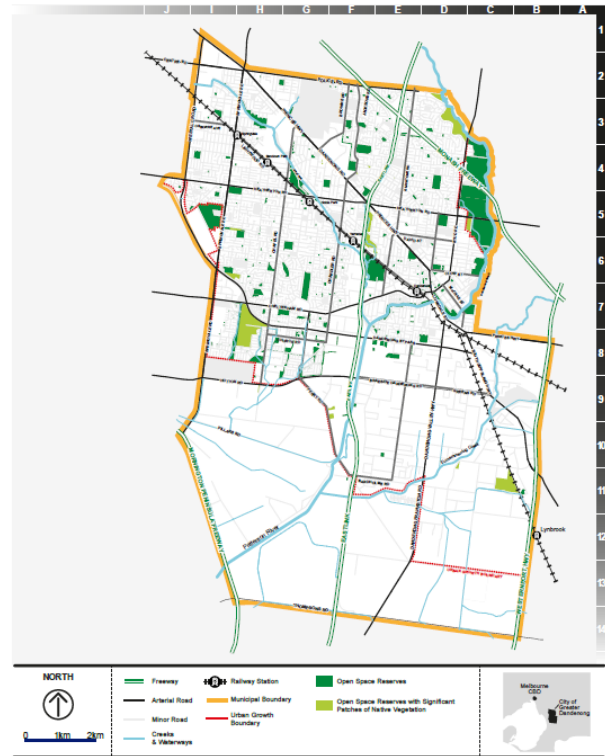
Council uses the Habitat Hectare (HHa) Score to measure and benchmark the condition of native vegetation in these reserves.

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)



### Highlights for 2017-18

Implementing 'Discover Dandenong Creek' project revegetation and weed control works.

Commenced carving of habitat hollows in trees and logs in bushland reserves.

### Current Actions for 2018-19

Update reserves Habitat Hectare Scores based on most recent assessments.

- **Responsibility – Infrastructure Services & Planning**

Implement stormwater harvesting to increase viability of red gums within Coomoora Reserve.

- **Responsibility – Infrastructure Services & Planning**

Implementation of Reserve Management Plans.

- **Responsibility – Infrastructure Services & Planning**

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

- **Responsibility – Infrastructure Services & Planning**

### Status

In Progress

Subject to Funding

Ongoing

In Progress

### Completed Actions for 2017-18

Assessment of the viability of the billabongs at Fotheringham Reserve.

✓

Report on potential for native vegetation offsets to be achieved within local biodiversity reserves.

✓

Design of stormwater harvesting system to increase viability of red gums within Coomoora Reserve.

✓



## 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

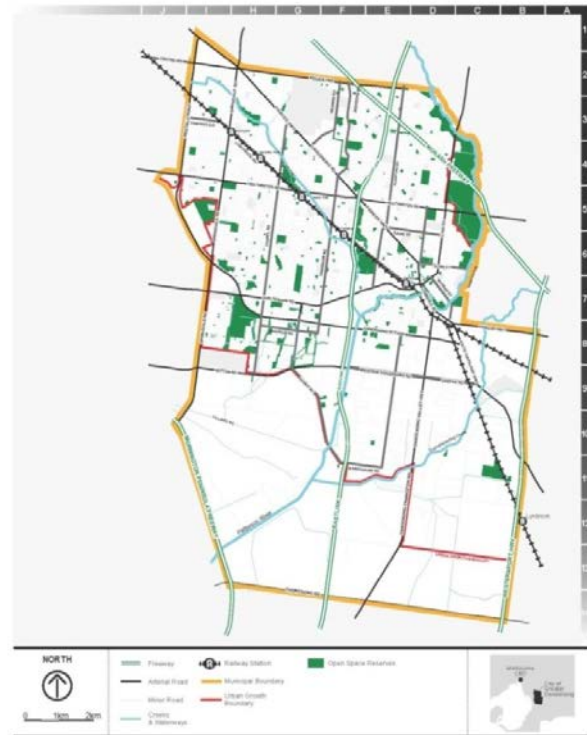
Figure BO-1.2 shows the location of reserves owned or managed by Council. There is a total of 672 Hectares (Ha) of parks and reserves within the municipality (June 2017).

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. Due to increases in population within Greater Dandenong, it will be hard for Council to meet this target.

Figure BO – 1.2 Council Open Space Reserves

OPEN SPACE (BO - 1.2)



### Highlights for 2017-18

- Construction of the Caulfield to Dandenong Level Crossing Removal Project open space and shared path corridor.
- Draft Park Masterplans commenced for Parkfield, Warner, Frederick Wachter and Burden Park Reserves.
- Implementation commenced on the Dandenong Park Northern Precinct.

### Current Actions for 2018-19

Current Actions for 2018-19	Status
Implementation of Open Space and Playground Strategy to improve quality throughout municipality.	Ongoing
<ul style="list-style-type: none"> <li>Responsibility – Planning &amp; Design + City Improvement</li> </ul>	
Improving park connectivity through new reserves created in residential and industrial areas.	Ongoing
<ul style="list-style-type: none"> <li>Responsibility – Planning &amp; Design</li> </ul>	
Incorporation of open space requirements as part of the Springvale Civic Precinct Masterplan.	In Progress
<ul style="list-style-type: none"> <li>Responsibility – Planning &amp; Design + City Improvement</li> </ul>	
Continue to implement and construct the Dandenong Park North precinct.	In Progress
<ul style="list-style-type: none"> <li>Responsibility – Planning &amp; Design + City Improvement</li> </ul>	
Review the Open Space Strategy 2009 and Action Plan 2010.	In Progress
<ul style="list-style-type: none"> <li>Responsibility – Planning &amp; Design</li> </ul>	
Integrate the Ross Reserve Master Plan with the new level crossing removal open space.	In Progress
<ul style="list-style-type: none"> <li>Responsibility – Planning &amp; Design</li> </ul>	
Develop master plans for Barry Powell, Wal Turner, Police Paddocks and Spring Valley Reserves.	In Progress
<ul style="list-style-type: none"> <li>Responsibility – Planning &amp; Design</li> </ul>	

### Completed Actions in 2017-18

Completion of two local playgrounds: Golding Court and Breanne Reserve	✓
Completion of design for neighbourhood playground: Hidden Grove	✓
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.

<b>2020 TARGET</b>
<b>Maintain Planting Numbers</b>
<b>BASELINE</b>
<b>Plant 1,200 trees per year   18,000 seedlings per year</b>
<b>PERFORMANCE</b>
<b>2,491 trees   26,772 seedlings (2017-18)</b>
<b>EXCEEDS TARGET</b>

In 2017-18, Council planted 2,491 trees in streets and parks, as well as 26,772 indigenous tube stock seedlings in open space reserves and school grounds throughout Greater Dandenong.

As part of the development of Council's urban tree strategy 'Greening Our City' the following information has been identified:

- 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
- 'Greening Our City' and the 15-year planting plan has been finalised and is currently being implemented.

Greater Dandenong's overall tree canopy is only 9.9 per cent, which is the lowest of all metro Melbourne municipalities on the eastern side of Melbourne. Council's aim is to increase canopy cover to 15 per cent by 2028.

Figure BO – 1.3 Council Planting Numbers 2017-18



26,772 Seedlings planted in our parks and reserves

2,491 Trees planted along our streets and in our parks



### Highlights for 2017-18

Adoption of the Greater Dandenong Urban Tree Strategy 'Greening Our City'.

Implementation of 'Discover Dandenong Creek Project' - 11 hectares revegetated and 209 hectares of weed control.

### Current Actions for 2018-19

	<b>Status</b>
Implement the 'Discover Dandenong Creek Project' including weed control and revegetation works. <ul style="list-style-type: none"> <li>▪ <b>Responsibility – Infrastructure Services &amp; Planning</b></li> </ul>	<b>In Progress</b>
Implementation of Council's 'Greening our city' Urban Tree Strategy and action plan, including increasing the street trees canopy across the municipality and community engagement. <ul style="list-style-type: none"> <li>▪ <b>Responsibility – Infrastructure Services &amp; Planning</b></li> </ul>	<b>Ongoing</b>
Ongoing planting program of indigenous seedlings within Council's reserves. <ul style="list-style-type: none"> <li>▪ <b>Responsibility – Infrastructure Services &amp; Planning</b></li> </ul>	<b>Ongoing</b>

### Completed Actions for 2017-18

Development of 15 year planting program based on the Urban Tree Strategy's street tree inventory.	✓
Report investigating potential for native vegetation offsets to be achieved within local reserves.	✓



## 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

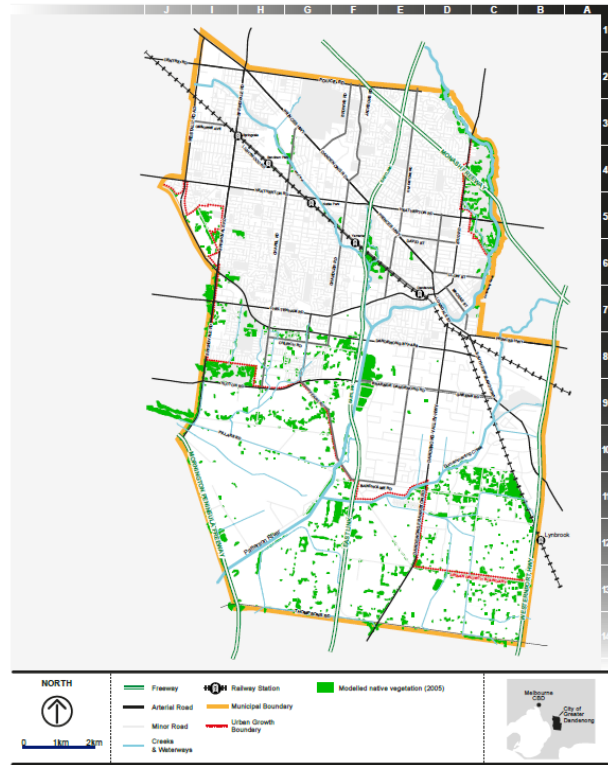
While remnant vegetation within reserves owned by Council has been assessed, there is limited information available on the status and location of native vegetation across the municipality.

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)



### Highlights for 2017-18

Collaboration with Parks Victoria, Melbourne Water and Knox City Council on 'Discover Dandenong Creek' Project. Updating of the mapping of the native vegetation within the Green Wedge to inform the Planning Scheme Amendment C205 that is seeking approval to make the temporary Vegetation Protection Overlay permanent.

### Current Actions for 2018-19

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

- **Responsibility – Planning & Design**

Status

Ongoing

Implementation of the Green Wedge Management Plan to protect and enhance the Green Wedge's ecological value.

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

Ongoing

Implementation of Council's street tree and indigenous seedling planting programs.

- **Responsibility – Infrastructure Services & Planning**

Ongoing

Implementation of Council's environmental education programs for the community, including those focussed on increasing community awareness on the importance of local biodiversity.

- **Responsibility – Infrastructure Services & Planning**

Ongoing

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

- **Responsibility – Infrastructure Services & Planning**

In Progress

### Completed Actions for 2017-18

11 hectares revegetated and 209 hectares of weed control as part of Discover Dandenong Creek Project ✓

Update of the 2013 flora and fauna assessment in the Green Wedge. ✓



## Community Objective: BO – 2.2 Open Space

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

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

Figure BO – 2.2 Residential Proximity to Open Space

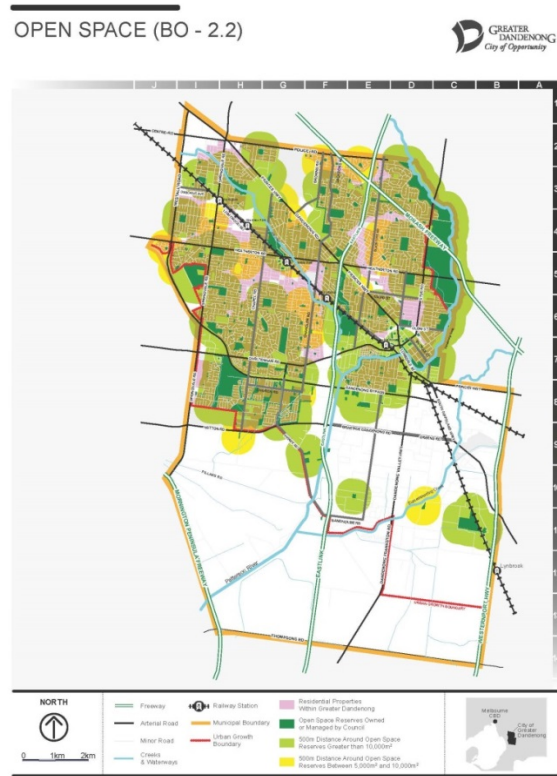


Figure BO – 2.2 shows that:

- 76%** of residential properties have good access to open space (located within 500m of a reserve greater than 10,000m<sup>2</sup>).
- 13%** of residential properties have limited access to open space (located within 500m of a reserve between 5,000m<sup>2</sup> to 10,000m<sup>2</sup>).
- 11%** of residential properties have poor access to open space (not located within 500m of a reserve 5,000m<sup>2</sup> or greater).

### Highlights for 2017-18

Commencement of the review of Council's 2009 Open Space Strategy and Action Plan.  
Construction of the Caulfield to Dandenong Level Crossing Removal Project open space and shared path corridor.

### Current Actions for 2018-19

Current Actions for 2018-19	Status
Implementation of policies such as the Open Space Strategy, to improve access to open space. ▪ <b>Responsibility – Planning &amp; Design + City Improvement</b>	Ongoing
Construction of new expanded open space at Allan Street Reserve within Metro3175. ▪ <b>Responsibility – City Improvement</b>	In Progress
Review Open Space Strategy 2009 and Action Plan including open space acquisition policy. ▪ <b>Responsibility – Planning &amp; Design</b>	In Progress
The review of the Noble Park Structure Plan to support improved connected public open spaces. ▪ <b>Responsibility – Planning &amp; Design</b>	In Progress
Liaise with Melbourne Racing Club on open space requirements for Sandown Development. ▪ <b>Responsibility – Planning &amp; Design</b>	In Progress

### Completed Actions for 2017-18

Adoption of Springvale Activity Centre Structure Plan 2017. ✓



## 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

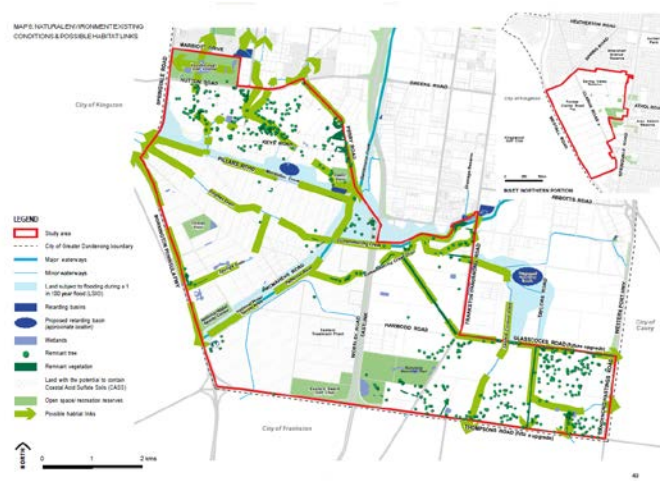
**Flora Mapping updated (2018)**

### 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 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).

### Highlights for 2017-18

Adoption of Green Wedge Management Plan and associated Action Plan (revised 2017).

Updating of the flora assessment undertaken in 2013 to assist with Planning Scheme Amendment C205, which seeks to introduce a permanent Vegetation Protection Overlay for the Green Wedge.

### Current Actions for 2018-19

Continue to support ongoing community participation in major environmental programs.

- **Responsibility – Responsible Business Units**

**Status**

**Ongoing**

Seek Ministerial approval for permanent vegetation protection overlay via C205 Amendment

- **Responsibility – Planning & Design**

**In progress**

Communicate with landowners and residents in green wedge on implementation of the GWMP.

- **Responsibility – Planning & Design**

**Ongoing**

### Completed Actions for 2017-18

Update of the 2013 Green Wedge Management Plans' flora and fauna assessment.

✓



## 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

22% of Development Applications (2017-18)

### 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 2017-18 Council assessed the Environmentally Sustainable Design (ESD) credentials of 77 new development applications. This equals 22% of all new development applications and 66% 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 for 2017-18

Launch of the Built Environment Sustainability Scorecard (BESS).

### Current Actions for 2018-19

Assessment of native vegetation through planning applications.

- Responsibility – Planning & Design + Infrastructure Services & Plan.

Status

Ongoing

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

- Responsibility – Planning & Design

In Progress

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

- Responsibility – Planning & Design

Ongoing

### Completed Actions for 2017-18

Customisation of SDAPP Fact Sheets for Greater Dandenong.





## 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



64 Activities | 5,179 Attendees



30 Events | 1,012 Attendees

### Highlights for 2017-18

'Discover Dandenong Creek' festival at Tirhatuan Park.

Launch of 'Growing Biodiversity' booklet.

### Current Actions for 2018-19

	Status
Implementation of Council's community environmental educational program.	Ongoing
▪ Responsibility – Infrastructure Services & Planning	
Installation of interpretative signage across key Council Reserves.	Ongoing
▪ Responsibility – Infrastructure Services & Planning + City Improvement	
Implementation of 'Adopt A Park' Program to improve local parks and increase their use.	Ongoing
▪ Responsibility – Infrastructure Services & Planning	
Provide environmental presence at community events such as the Mayoral Dandenong Show, Greater Dandenong Sustainability Festival and Little Day Out.	Ongoing
▪ Responsibility – Infrastructure Services & Planning	

### Completed Actions for 2017-18

Ongoing implementation of environmental educational program for the community by Council.	✓
Running activities at community events in 2017-18 such as the Mayoral Fun Day and the Little Day Out.	✓
Ongoing implementation of community and school planting days through Greater Dandenong.	✓
Installation of interpretative signage at 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	42% Reduction   232ML in 2017-18	
WS – 1.2 Stormwater	Existing Projects – Stormwater	ACTION REQUIRED
WS – 1.3 Alternative Water	Existing Projects – Alternative Water	ACTION REQUIRED

## Community Objectives

## Performance Indicator

WS – 2.1 Mains Water	23% reduction households   27% reduction businesses (2016-17)	
WS – 2.2 Stormwater	Mapping of Catchment by Council	ACTION REQUIRED
WS – 2.3 Planning	22% of Development Applications	
WS – 2.4 Awareness	Existing Programs	





## Corporate Objective: WS – 1.1 Mains Water

Reduce Council's corporate mains water consumption.

### 2020 TARGET

187ML by 2020 | 50% reduction

### BASELINE

394 ML (1999-2000)

### PERFORMANCE

232 ML (2017-18)

### OFF TARGET

In the 2017/18 financial year, Council used 232 ML (megalitres) of mains water at a cost of \$857,000. This was a 40 ML increase in water use by Council at an additional cost of \$111,000, when compared to the 192 ML used in 2016/17 at a cost of \$746,000.

Figure WS-1.1a Cost and water consumption highlights the amount of mains water used by Council per year for the last 10 years.

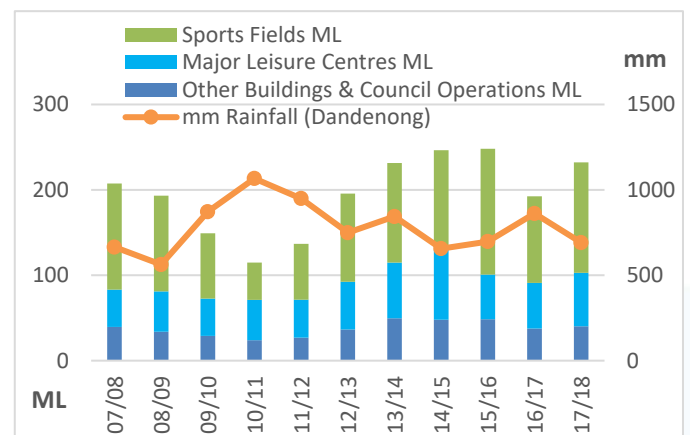
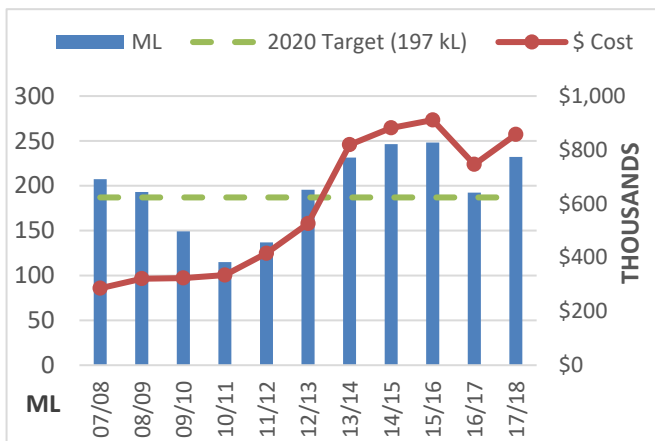
Figure WS-1.1b Rainfall and water consumption highlights the direct correlation between rainfall and water use by Council over the same period. This is mainly due to the irrigation of sports playing fields.

The areas of Council that use the majority of main water include

- Sports fields 129ML used at a cost of \$438,000
- Leisure centres 63ML used at a cost of \$238,000
- Other buildings 40ML used at a cost of \$181,000

Figure WS – 1.1a Costs and water consumption

Figure WS – 1.1b Rainfall and water consumption



### Highlights for 2017-18

Carpark and pavilion stage of Tatterson Park Stormwater Harvesting Project completed in 2017/18.

### Current Actions for 2018/19

Action	Status
Implement the Sustainable Buildings Policy for design and construction of Council buildings. ▪ Responsibility – Planning & Design + City Improvement	Ongoing
Help DELWP complete the Integrated Water Management Plan for the Dandenong Creek Catchment. ▪ Responsibility – Infrastr. Services Planning + Planning & Design	In Progress
Springvale Civic Precinct designed to meet best practice WSUD and IWM requirements. ▪ Responsibility – City Improvement + Planning & Design	In Progress
Installation of smart water sub-metering on Sports Playing Field and Pavilions. ▪ Responsibility – City Improvement + Infrastructure Services & Planning	In Progress

### Completed Actions for 2017/18

Design for Coomoora Reserve Stormwater Harvesting Project completed.	✓
Council adopted its Sustainable Buildings Policy that includes best practice water requirements.	✓



## Corporate Objective: WS – 1.2 Stormwater

Minimise the impact of stormwater runoff and pollution.

<b>2020 TARGET</b>
<b>No. Best Practice Projects</b>
<b>BASELINE</b>
<b>Establish Baseline</b>
<b>PERFORMANCE</b>
<b>Existing Projects</b>
<b>ACTION REQUIRED</b>

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. 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**



Stormwater harvesting project for Tatterson Park has been completed



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

### Highlights for 2017-18

Council adopted the Sustainable Stormwater Strategy.

### Current Actions for 2018-19

	<b>Status</b>
Ongoing collaboration with South East Water, Melbourne Water and DELWP.	<b>Ongoing</b>
▪ <b>Responsibility – Infrastructure Services &amp; Planning + Planning &amp; Design</b>	
Establish the baseline of Council's Best Practice Stormwater projects.	<b>In Progress</b>
▪ <b>Responsibility – Planning &amp; Design + City Improvement</b>	
Capital Works delivered using Water Sensitive Design and Best Practice Environmental Management.	<b>In Progress</b>
▪ <b>Responsibility – Infrastructure Services &amp; Planning + City Improvement</b>	
Seek funding for the Coomoora Reserve Stormwater Harvesting Project.	<b>In Progress</b>
▪ <b>Responsibility – Infrastructure Services &amp; Planning</b>	
Work with Melbourne Water on the upgrade and naturalisation of Mile Creek.	<b>In Progress</b>
▪ <b>Responsibility – Infrastructure Services &amp; Planning</b>	

### Completed Actions for 2017-18

Flood Management Plan completed in partnership with Melbourne Water.	✓
Springvale Community Precinct has been designed to incorporate best practice WSUD initiatives.	✓



## Corporate Objective: WS – 1.3 Alternative Water

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

<b>2020 TARGET</b>
Replace 10% of Mains Water
<b>BASELINE</b>
Establish Baseline
<b>PERFORMANCE</b>
Existing Projects
<b>ACTION REQUIRED</b>

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**



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 for 2017-18

Design for the Coomoora Reserve Stormwater Harvesting project has been completed.

Tatterson Park Stormwater Project has been completed will provide up to 20ML of water a year.

### Current Actions for 2018-19

	Status
Seek funding opportunities to commence Coomoora Reserve stormwater harvesting project.	<b>In Progress</b>
▪ <b>Responsibility – Infrastructure Services &amp; Planning</b>	
Consider opportunities to monitor Council's use of alternative water sources to establish a baseline.	<b>In Progress</b>
▪ <b>Responsibility – Planning &amp; Design + City Improvement</b>	
Investigate opportunities for water systems that provide alternate water and flood mitigation.	<b>In Progress</b>
▪ <b>Responsibility – Infrastructure Services &amp; Planning</b>	
Investigate options to increase alternative water sources for the Sandown Development.	<b>In Progress</b>
▪ <b>Responsibility – Planning &amp; Design + Infrastructure Services &amp; Planning</b>	

### Completed Actions for 2017-18

	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.	✓
Ecological Study for Fotheringham Reserve prepared - actions identified for future projects.	✓



## 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 (2017-18)

23% reduction households |  
25% 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:

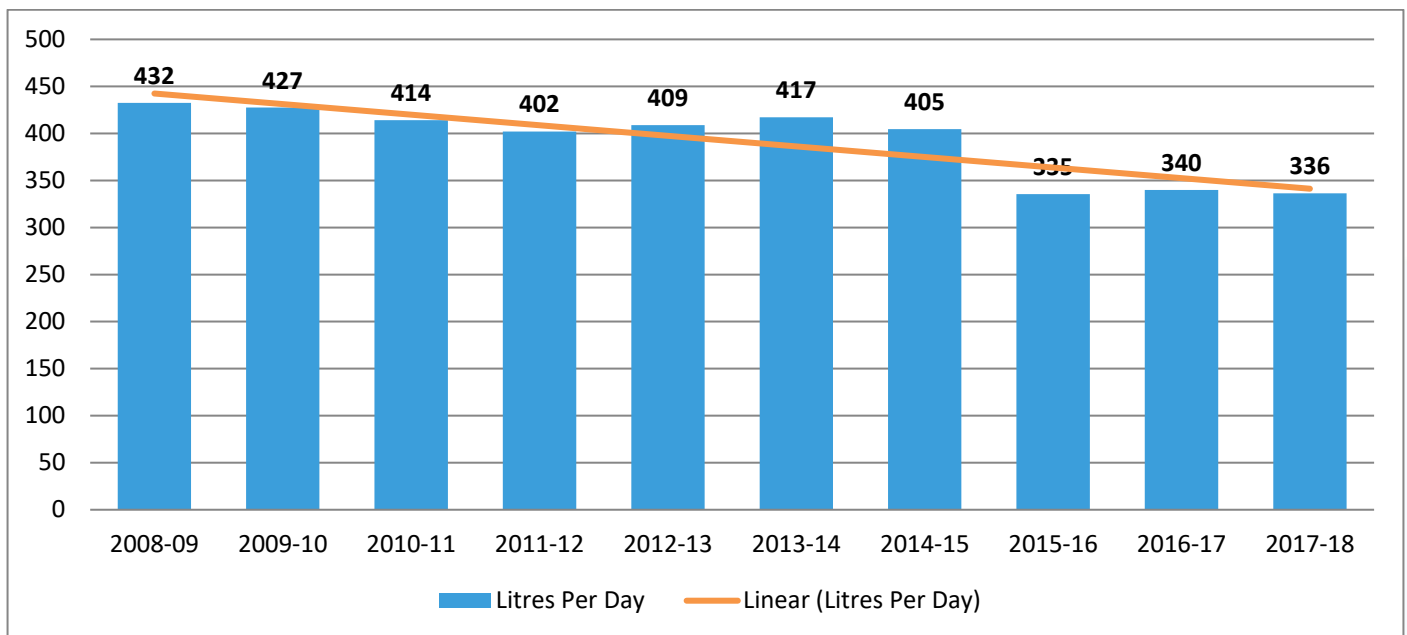
- 336 litres / day / household (2017-18)
- 1412 litres / day / business (2017-18)

The trend, from 2008-09 to 2017-18, 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 about 62 per cent
- Non-residential demand accounts for about 38 per cent.

Figure WS – 2.1 Household mains water use in litres 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 for 2018-19

Action	Status
Facilitate the reduction of community mains potable water use through the planning system. <ul style="list-style-type: none"> <li>▪ Responsibility – Planning &amp; Design</li> </ul>	Ongoing
Continue ongoing programs, including articles in Council publications and on the CGD website. <ul style="list-style-type: none"> <li>▪ Responsibility – Planning &amp; Design</li> </ul>	Ongoing
Work with South East Water increase community awareness on how to save water. <ul style="list-style-type: none"> <li>▪ Responsibility – Planning &amp; Design + Infrastructure Services &amp; Planning</li> </ul>	Ongoing
Sandown Racecourse Development <ul style="list-style-type: none"> <li>▪ Responsibility – Planning &amp; Design + Infrastructure Services &amp; Planning</li> </ul>	Ongoing

### Completed Actions for 2017-18

Development and launch of SDAPP Fact Sheets for Greater Dandenong.	✓
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## 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

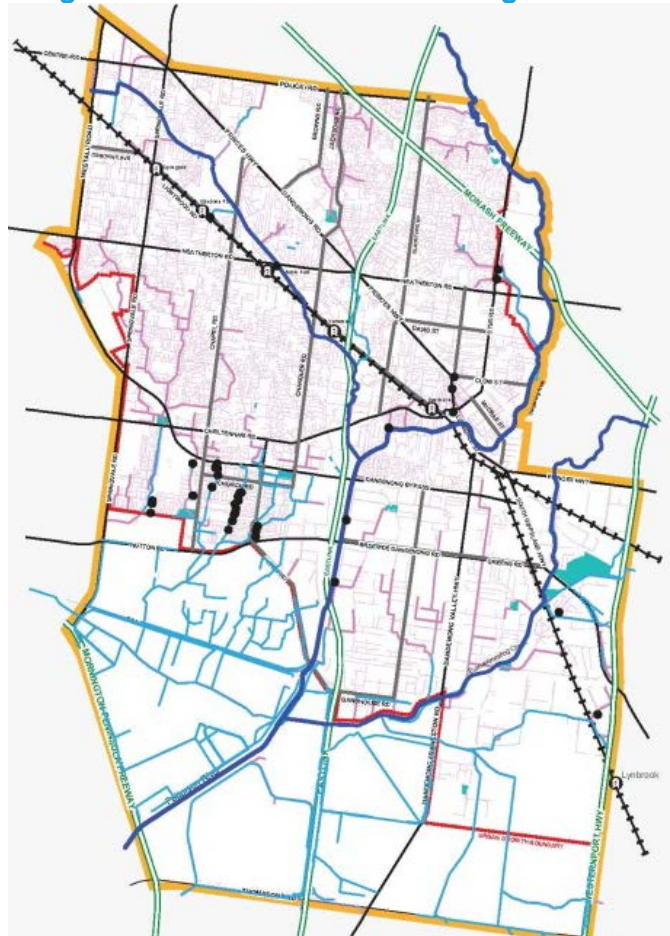
Mapping of Catchment by Council

### ACTION REQUIRED

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.

Figure WS – 2.2 Water and Drainage Assets



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 for 2017/18

Council formally adopted the Sustainable Stormwater Strategy in 2018.

### Current Actions for 2018/19

Current Actions for 2018/19	Status
Establish a baseline on the percentage of Greater Dandenong that meets best practice. ▪ <b>Responsibility – Infrastructure Services &amp; Planning</b>	In Progress
Flood Management Plan reviewed updated and endorsed. ▪ <b>Responsibility – Infrastructure Services &amp; Planning</b>	In Progress
Delivery of point source stormwater monitoring and engagement programs. ▪ <b>Responsibility – Regulatory Services + Planning &amp; Design</b>	In Progress
Collaborate with DELWP and key stakeholders on the Integrated Water Management Forums ▪ <b>Responsibility – Infrastructure Services &amp; Planning + Planning &amp; Design</b>	Ongoing
Implementation 20 year Flood Mitigation Program. ▪ <b>Responsibility – Infrastructure Services &amp; Planning</b>	In Progress

### Completed Action for 2017/18

Long Term 20 year program for Flood Mitigation Projects completed in 2018.	✓
Flood Management Plan reviewed updated and endorsed in 2018.	✓



## Community Objective: WS – 2.3 Planning

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

<b>2020 TARGET</b>
<b>50% of Development Applications</b>
<b>BASELINE</b>
<b>25% of Development Applications</b>
<b>PERFORMANCE (2017-18)</b>
<b>22% of Development Applications</b>
<b>OFF TARGET</b>

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 2017/18 Council assessed the Environmentally Sustainable Design (ESD) credentials of 77 new development applications. This equals 22% of all new relevant development applications and 66% of development applications that meet the current SDAPP trigger levels set by Council.

To help address water and stormwater issues Council uses the SDAPP Fact Sheets – see below – Figure WS-2.4 Water Efficiency and Stormwater Management.

Figure WS – 2.4 Water Efficiency SDAPP Fact Sheet

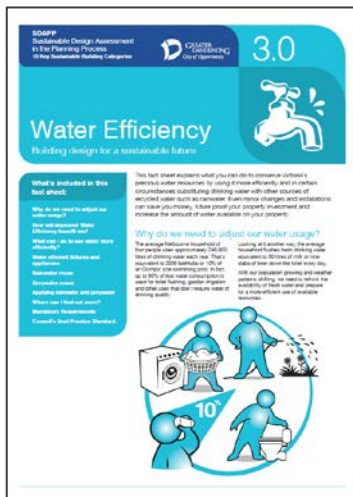


Figure WS – 2.4b SDAPP Stormwater Management Fact Sheet



### Highlights for 2017/18

- Implementation of the Built Environment Sustainability Scorecard (BESS) assessment tool for planning applications.
- Implementation of the Sustainable Design Assessment in Planning Process (SDAPP) framework and program

### Current Actions for 2018/19

	<b>Status</b>
Preparation of Local ESD Planning Policy for the Greater Dandenong Planning Scheme. <ul style="list-style-type: none"> <li><b>Responsibility – Planning &amp; Design</b></li> </ul>	<b>In Progress</b>
Help reduce the impacts of stormwater runoff and flooding through the planning process. <ul style="list-style-type: none"> <li><b>Responsibility – Planning &amp; Design + Infrastructure Services &amp; Planning</b></li> </ul>	<b>Ongoing</b>
Use the SDAPP framework and BESS assessment tool to assess planning applications. <ul style="list-style-type: none"> <li><b>Responsibility – Planning &amp; Design</b></li> </ul>	<b>Ongoing</b>
Integrating Water Sensitive Urban Design (WSUD) measures into the development process. <ul style="list-style-type: none"> <li><b>Responsibility – Planning &amp; Design + Infrastructure Services &amp; Planning</b></li> </ul>	<b>In Progress</b>

### Completed Actions for 2017/18

Training of Council Staff on the SDAPP framework and the BESS assessment tool.	✓
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## Community Objective: WS – 2.4 Awareness

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

<b>2020 TARGETS</b>
<b>Monitor and Report</b>
<b>BASELINE</b>
<b>Existing Programs</b>
<b>PERFORMANCE</b>
<b>Existing Programs</b>
<b>ON TARGET</b>

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.

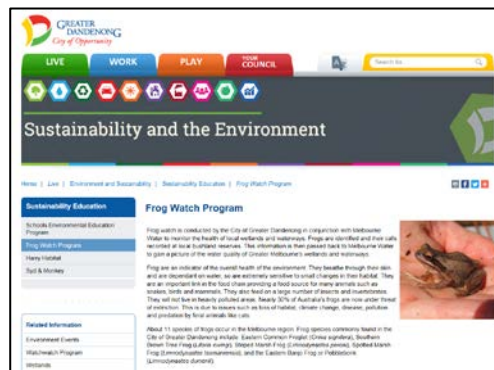
For the City of Greater Dandenong to achieve its goal of becoming a Water Sensitive City, the required changes to policies, practices and technology will need to be accepted and embraced by the community.

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 – 2017/18

Engagement with industrial businesses in Greater Dandenong on water pollution, funded by Living Rivers Program.

### Current Actions – 2018/19

	<b>Status</b>
Use website, publications and social media to promote water efficiency and stormwater management.	<b>Ongoing</b>
▪ <b>Responsibility – Communications &amp; Customer Service + Planning &amp; Design</b>	
Work with South East Water and key stakeholders to increase awareness on how to save water.	<b>Ongoing</b>
▪ <b>Responsibility – Planning &amp; Design + Infrastructure Services &amp; Planning</b>	
Increase awareness of water issues at events like World Wetland Day and Sustainability Festival.	<b>Ongoing</b>
▪ <b>Responsibility – Infrastructure Services &amp; Planning + Planning &amp; Design</b>	
Facilitate Waterwatch activities with local schools and community Groups.	<b>Ongoing</b>
▪ <b>Responsibility – Infrastructure Services &amp; Planning</b>	

### Completed Actions – 2017/18

Facilitating kids teaching kids program in schools with Melbourne Water and Dolphin Research Institute.	✓
Implementation of the SDAPP Fact Sheets for developers and planning applicants	✓





# 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	51% of Total Waste Sent to Landfill	
WR – 1.2 Recycling and Re-use	49% of Total Waste Diverted from Landfill	
WR – 1.3 Resource Efficiency	Establish Program BY 2020	
WR – 1.4 Procurement	Updated Procurement Policy	

### Community Objectives

### Performance Indicator

WR – 2.1 Waste to Landfill	9% Reduction - 10.4kg / Garbage / Home / Week	
WR – 2.2 Recycling and Re-use	1% Increase - 4.4 kg / Recycling / Home / Week	
WR – 2.3 Litter Prevention	4,165 Customer Service Requests	
WR – 2.4 Planning	22% of Applicable Development Applications	
WR – 2.5 Awareness	113 activities   4,144 participants	





## Corporate Objective: WR – 1.1 Waste to Landfill

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

### 2020 TARGET

Total Waste to Landfill = 35%

### BASELINE

Total Waste to Landfill = 54% (2014)

### PERFORMANCE

Total Waste to Landfill = 51% (2018)

### OFF TARGET

Figure WR-1.1a shows the results from waste audits conducted in August 2018 of offices at the Dandenong Civic Centre and Operations Centre – it indicates:

- Total waste collected in 2018 was 14.9 tonnes per year
  - An decrease on the 15.6 tonnes in 2017
  - A decrease on the baseline of 28.5 tonnes
- From this waste sent to landfill equalled 51%
  - An increase of 2% compared to 2017,
  - A decrease from 54% recorded in 2014.

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

- 42% could have been recycled
- 21% could have been composted.

While overall waste levels have fallen compared with the previous year, there are still further opportunities to divert office waste from landfill.

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

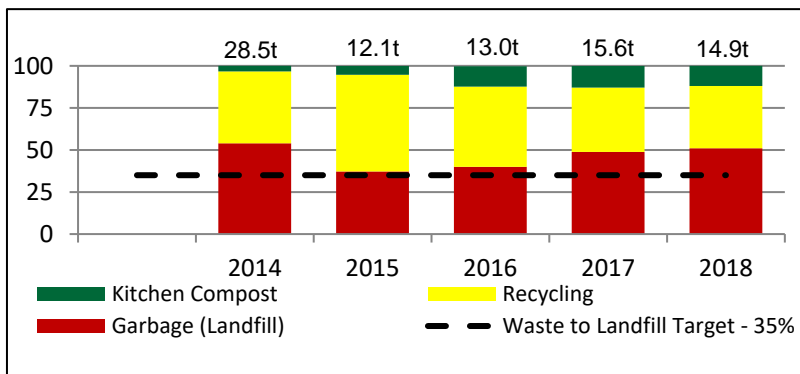
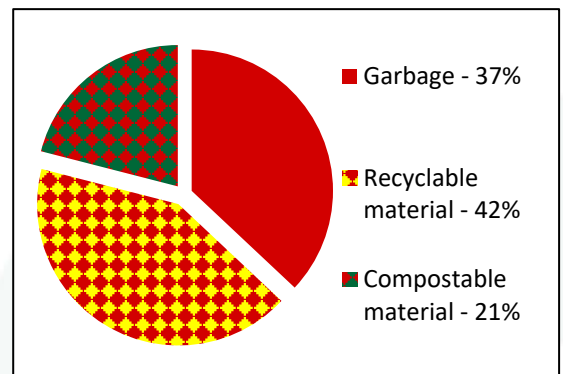


Figure WR – 1.1b Composition of waste placed in Council office garbage bins



### Highlights for 2017-18

Repurpose of old office furniture to local community groups.

### Current Actions for 2018-19

Implementation of the recycling program for batteries, light globes, CDs, DVDs and mobiles at Council's offices and other customer service areas.

- Responsibility – Infrastructure Services & Planning**

Implementation of Council's Waste Wise office recycling program.

- Responsibility – Infrastructure Services & Planning**

**Status**

**Ongoing**

**Ongoing**

### Completed Actions for 2017-18

Annual audit of Council Offices to track waste sent to landfill and identify opportunities to reduce waste. ✓

Promotion of Council's Waste Wise office program. ✓



## Corporate Objective: WR – 1.2 Recycling and Re-use

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

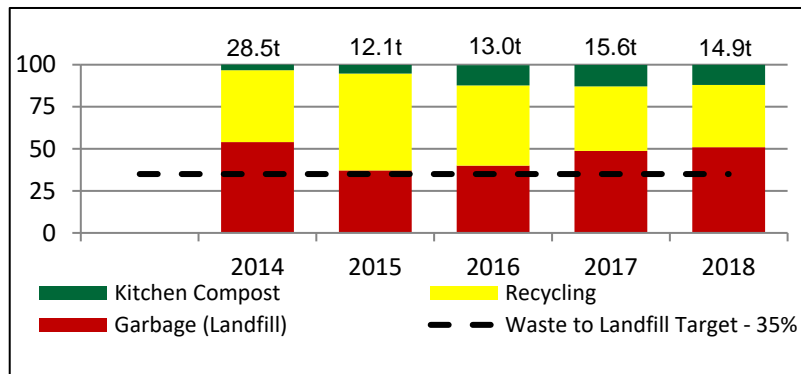
<b>2020 TARGET</b>
<b>65% Diverted from Landfill – Recyclables / Organics</b>
<b>BASELINE</b>
<b>46% of Total Waste Diverted from Landfill (2014)</b>
<b>PERFORMANCE</b>
<b>49% of Total Waste Diverted from Landfill (2018)</b>
<b>OFF TARGET</b>

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 2018 was 14.9 tonnes per year
  - An increase on the 15.6 tonnes in 2017
  - A decrease on the baseline of 28.5 tonnes
- From this total waste collected, waste that was diverted from going to landfill equalled 49% - of which:
  - 37% was recycled (a decrease from the 38.3% in 2017)
  - 12% was composted (an decrease from the 12.8% in 2017)

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 for 2017-18

Repurpose of old office furniture to local community groups.

### Current Actions for 2018-19

Implementation of the recycling program for batteries, light globes, CDs, DVDs and mobiles at Council's offices and other customer service areas.

- Responsibility – Infrastructure Services & Planning**

Implementation of Council's Waste Wise office recycling program across Council offices.

- Responsibility – Infrastructure Services & Planning**

Council's Operation Centre's Recycling Program to recycle of operational waste.

- Responsibility – Infrastructure Services & Planning**

Investigate the diversion of street sweepings from landfill.

- Responsibility – Infrastructure Services & Planning**

### Status

Ongoing

Ongoing

Ongoing

In Progress

### Completed Actions for 2017-18

Annual audit of Offices to monitor recycling and identify opportunities to increase materials recycled.

✓

Promotion of Council's Waste Wise office program.

✓



## Corporate Objective: WR – 1.3 Resource Efficiency

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

<b>2020 TARGET</b>
Establish Resource Efficiency Program
<b>BASELINE</b>
Existing Programs
<b>PERFORMANCE</b>
Establish Program by 2020
<b>ON TARGET</b>

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 in 2017-18

### Electricity



**0.4%**

Less than 2016-17

### Gas



**5%**

More than 2016-17

### Water



**21%**

More than 2016-17

### Office Waste



**10%**

More than 2016

### Highlights for 2017-18

Trial of Carbonetix's Embedded Officer Program that aims to achieve savings through the provision of in-house expertise to assist Council's management of its utility accounts.

### Current Actions for 2018-19

	Status
Implementation of Council's Procurement Policy. ▪ <b>Responsibility – People &amp; Procurement Services</b>	Ongoing
Consideration of opportunities to monitor and report on Council's sustainable procurement activities. ▪ <b>Responsibility – People &amp; Procurement Services + Planning &amp; Design</b>	Ongoing
Implementation of Council's Sustainable Buildings Policy. ▪ <b>Responsibility – City Improvement</b>	Ongoing
Update Council's Buildings specification standards for upgrades of plant and equipment. ▪ <b>Responsibility – Planning &amp; Design + City Improvement</b>	In Progress
Implementation of Council's Building Energy Management Plan. ▪ <b>Responsibility – City Improvement</b>	Ongoing
Continue trial of Carbonetix's Embedded Officer Program. ▪ <b>Responsibility – People &amp; Procurement Services</b>	In Progress
Consideration of opportunities to establish a Resource Efficiency Program for Council. ▪ <b>Responsibility – Planning &amp; Design + People &amp; Procurement Services</b>	Not Started

### Completed Actions for 2017-18

Implementation of Building Energy Management Plan actions at facilities such as the Dandenong Civic Centre and Thomas Street Multi-deck Carpark as part of the Capital Works Program. ✓



## 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

### ON TARGET

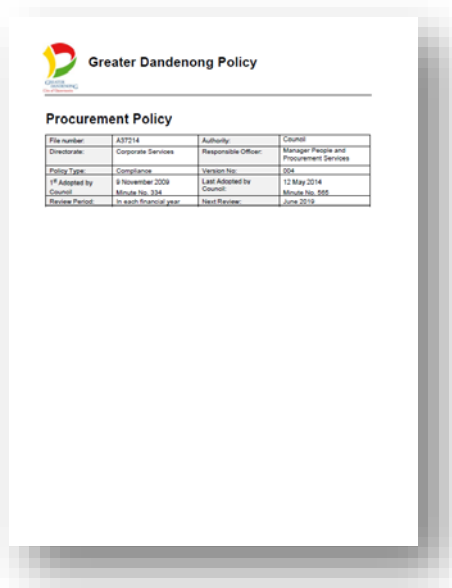
Corporate Social Responsibility (CSR) focuses on taking positive action to deliver an organisation's commitment to the local community and environment.

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 to not only the organisation, but for society and the economy as well, 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 for 2017-18

Adoption of the Sustainable Building Policy for the design, construction and operation of Council's buildings.

### Current Actions for 2018-19

	Status
Ongoing implementation of Council's Procurement Policy.	Ongoing
<ul style="list-style-type: none"> <li>▪ <b>Responsibility – People &amp; Procurement Services</b></li> </ul>	
Consideration of opportunities to monitor and report on Council's sustainable procurement activities.	Ongoing
<ul style="list-style-type: none"> <li>▪ <b>Responsibility – People &amp; Procurement Services + Planning &amp; Design</b></li> </ul>	
Implement Sustainable Buildings Policy for design and construction of Council buildings.	Ongoing
<ul style="list-style-type: none"> <li>▪ <b>Responsibility – City Improvement + Planning &amp; Design</b></li> </ul>	
Update Council's Buildings specification standards for upgrades of plant and equipment.	In Progress
<ul style="list-style-type: none"> <li>▪ <b>Responsibility – City Improvement + Planning &amp; Design</b></li> </ul>	

### Completed Actions for 2017-18

Development of the Sustainable Building Policy for the design, construction and operation of Council's buildings. ✓



## Community Objective: WR – 2.1 Waste to Landfill

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

<b>2020 TARGET</b>
Aspire for a 10% Reduction
<b>BASELINE</b>
11.5 Kg / Household Garbage / Week (2013-14)
<b>PERFORMANCE</b>
9.3% Reduction   10.4 Kg / Household Garbage / Week (2017-18)
<b>ON TARGET</b>

In 2017-18 Council's household kerbside service collected:

- 56,361 tonnes (t) of total waste
- 31,019 tonnes of waste that was sent to landfill
  - An increase of 1,406t in waste sent to landfill when compared to 2015-16.

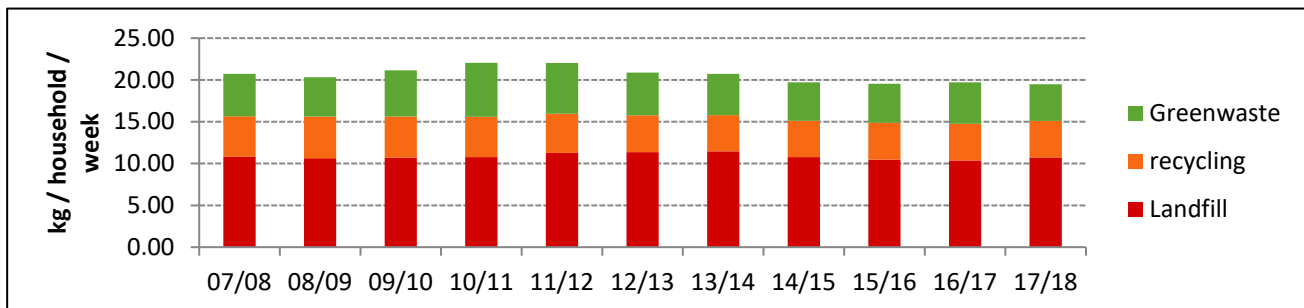
The average number of residential properties serviced by Council's kerbside collection in 2017-18 increased by 723 to a total of 55,255.

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 10.7kg of household collected per week waste was sent to landfill  
A reduction of 9.3% when compared to the 2013-14 baseline

The overall annual waste tonnages from all households is just 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 3,300 additional properties since that time.

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



### Highlights for 2017-18

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. 2017-18 Waste and Litter Strategy Action Plan's 82 actions considered and actioned.

### Current Actions for 2018-19

	Status
Implementation of 2018-19 Waste Education Program	Ongoing
▪ <b>Responsibility – Infrastructure Services &amp; Planning</b>	
Promotion of waste minimisation through Council's website and other publications.	Ongoing
▪ <b>Responsibility – Infrastructure Services &amp; Planning</b>	
Implementation of 2018-19 Action Plan for the Waste and Litter Strategy	Ongoing
▪ <b>Responsibility – Infrastructure Services &amp; Planning</b>	
Deliver two "Pop-up Drive Thru Recycle" events and a "HomeCycle" collection services	Ongoing
▪ <b>Responsibility – Infrastructure Services &amp; Planning</b>	

### Completed Actions for 2017-18

Delivery of Waste and Litter Strategy's 2017-18 Action Plan.	✓
Delivery of a comprehensive 2017-18 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.

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

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

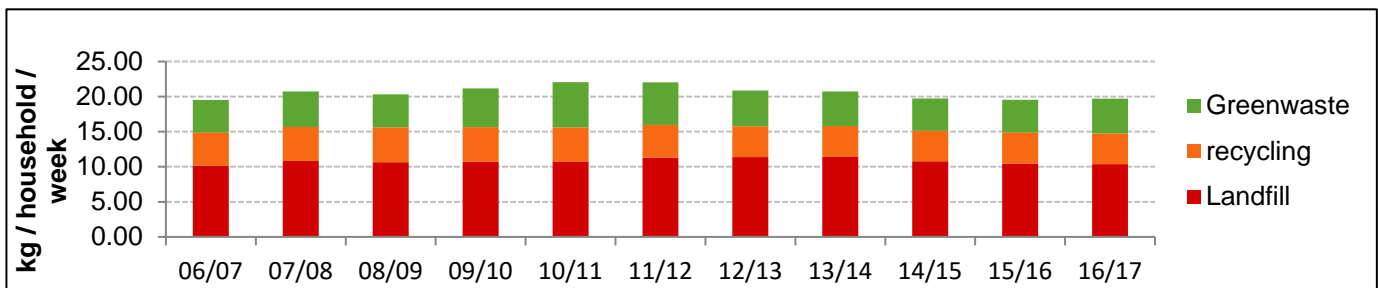
The number of residential properties serviced by Council's kerbside collection increased by 794 in 2016-17 to a total of 54,532.

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

Current Actions	Status
Implementation of Waste and Litter Strategy's 2017-18 Action Plan and Education Plan.	Ongoing
▪ 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
▪ Ongoing   Responsibility – Infrastructure Services & Planning	
Review Hard Waste Collection Service in September 2018 to increase recycling and re-use.	Ongoing
▪ Ongoing   Responsibility – Infrastructure Services & Planning	
Undertake targeted bin auditing program to enhance recycling compliance and behaviours	Ongoing
▪ 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.

<b>2020 TARGET</b>
<b>Monitor and Report Related Customer Service Requests</b>
<b>BASELINE</b>
<b>3,259 Customer Service Requests (2014)</b>
<b>PERFORMANCE</b>
<b>3,703 Customer Service Requests (2017)</b>
<b>ON TARGET</b>

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
- Feed the bins, not the birds campaign
- Litter Education Events and Activities – check focus areas for litter plan.

In 2017 there were 3,703 Customer Service Requests to Council related to dumped rubbish and litter. This led to 491 litter related fines and 13 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



3,703

Fines



491

Court Cases



13

### Highlights for 2017-18

Conducted proactive builders inspection and education program that aimed to reduce litter emanating from building sites and ensure responsible site practices.

### Current Actions for 2018-19

	<b>Status</b>
Implementation of the 2018-19 Waste and Litter Strategy Litter Action Plan.	<b>Ongoing</b>
▪ <b>Responsibility – Infrastructure Services &amp; Planning</b>	
Council’s Litter Action Task Force to coordinate litter initiatives including rubbish within the municipality.	<b>Ongoing</b>
▪ <b>Responsibility – Regulatory Services + Infrastructure Services &amp; Plan.</b>	
Council's Litter Prevention Officer to support initiatives that aim to reduce the number of litter and rubbish dumping incidences across the municipality.	<b>Ongoing</b>
▪ <b>Responsibility – Infrastructure Services &amp; Planning –</b>	
Implementation of the updated Hot Spots Program to target dumped rubbish problem areas.	<b>In Progress</b>
▪ <b>Responsibility – Infrastructure Services &amp; Planning</b>	
Partnership with the Dandenong Office of Corrections and Gateway Industries to undertake a litter collection program across council parks and rural road reserves.	<b>Ongoing</b>
▪ <b>Responsibility – Infrastructure Services &amp; Planning</b>	
Deliver targeted education programs aimed at reducing occurrence of litter.	<b>Ongoing</b>
▪ <b>Ongoing   Responsibility – Infrastructure Services &amp; Planning</b>	

### Completed Actions for 2017-18

Review of the Hot Spots Program to better target problem areas.	✓
Completion of activities from the Waste and Litter Strategy 2017-18 Action Plan.	✓





# Community Objective: WR – 2.4 Planning

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

<b>2020 TARGET</b>
<b>50% of Applicable Development Applications</b>
<b>BASELINE (2013-14)</b>
<b>25% of Applicable Development Applications</b>
<b>PERFORMANCE (2017-18)</b>
<b>22% of Applicable Development Applications</b>
<b>OFF TARGET</b>

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

- Building construction 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 2017-18 Council assessed the Environmentally Sustainable Design (ESD) credentials of 77 new development applications. This equals 22% of all applicable new development applications and 66% of applicable new development applications that meet the SDAPP Trigger Levels.

To help developers address these issues Council uses the following SDAPP Fact Sheets - see below:

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



## Highlights for 2017-18

Development and launch of SDAPP Fact Sheets for Greater Dandenong.

## Current Actions for 2018-19

Assessment of waste management plans as part of development planning applications.

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

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

- **Responsibility – Planning & Design**

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

- **Responsibility – Planning & Design**

**Status**

Ongoing

In Progress

Ongoing

## Completed Actions for 2017-18

Development and launch of SDAPP Fact Sheets for Greater Dandenong.





## Community Objective: WR – 2.5 Awareness

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

<b>2020 TARGET</b>
<b>Increase No. of Participants</b>
<b>BASELINE</b>
<b>2014 Waste Education Plan</b>
<b>PERFORMANCE</b>
<b>113 Activities + 4,144 participants (2017-18)</b>
<b>ON TARGET</b>

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 2017-18, Council undertook 113 specific activities involving over 4,144 members of the community. Activities undertaken included:

- Working with students at primary schools and early learning centres as well as School holiday programs
- 'Follow your Waste' tours
- Working with migrant communities
- Free detox your home service in Greater Dandenong
- Waste education activities at events and festivals.
- Council also initiated 2 Pop-Up Drive thru Recycle & 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: 87  
Attendees: 2,523**



**Events / Workshops / Tours: 26  
Attendees: 1,621**

### Highlights for 2017-18

Success of Council's two 'pop-up drive through' recycle events held in February and June of 2018.

### Current Actions for 2018-19

	<b>Status</b>
Develop & implement the 2018/19 Waste and Litter Strategy's Action Plan & Annual Waste Education Plan.	<b>Ongoing</b>
<ul style="list-style-type: none"> <li><b>Responsibility – Infrastructure Services &amp; Planning</b></li> </ul>	
Develop and deliver a media and marketing plan for the state government education campaign "Take your e-waste to a better place" communicating to the community on the upcoming e-waste ban taking place from 1 July 2019.	<b>Ongoing</b>
<ul style="list-style-type: none"> <li><b>Responsibility – Infrastructure Services &amp; Planning</b></li> </ul>	
Promote and encourage community awareness and use of the recycling stations provided at Greater Dandenong Customer Service Centres that accept mobile phones, DVD's, CD's, household batteries and globes.	<b>Ongoing</b>
<ul style="list-style-type: none"> <li><b>Responsibility – Infrastructure Services &amp; Planning</b></li> </ul>	
Continue to promote and encourage participation in ASPIRE* resource exchange project.	<b>Ongoing</b>
<ul style="list-style-type: none"> <li><b>Responsibility – South East Business Network</b></li> </ul>	
Continue to raise awareness, provide exposure to good practice and encourage adoption of all disciplines of sustainability across all SEBN networks and activities.	<b>Ongoing</b>
<ul style="list-style-type: none"> <li><b>Responsibility – South East Business Network</b></li> </ul>	

### Completed Actions for 2017-18

Delivery of the 2017/18 Waste Education Program	✓
Roll out across all Greater Dandenong Customer Service Centres of recycling stations accepting mobile phones, DVD's, CD's, household batteries and globes.	✓



# 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	Staff Commute – 0.75% walk   0.75% Cycle	
TM – 1.2 Low Carbon Transport	Staff Commute – 6.4% Train   0.4% Bus	
TM – 1.3 Fleet Operations	0.5% Decrease in emissions	
TM – 1.4 Walking and Cycling Networks	115.81km Shared   69.99km On Road	

## Community Objectives

## Performance Indicator

TM – 2.1 Active Transport	Travel Modal Data – 1.9% Walk   0.5% Cycle	
TM – 2.2 Low Carbon Transport	Travel Modal Data – 10.9% Train   5% Bus	
TM – 2.3 Access to Public Transport	35% Frequent   55% Service   10% None	
TM – 2.4 Planning	22% of Development Applications	
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 for 2017-18

Launch of the Greater Dandenong Cycling Strategy.

### Current Actions for 2018-19

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

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

**Status**

**Ongoing**

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

- **Ongoing | Responsibility – Community Wellbeing**

**Ongoing**

### Completed Actions for 2017-18

Promotion of 'Ride2Work Day' in Harmony Square in October 2018.

✓



## C Corporate Objective: TM – 1.2 Low Carbon Transport

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

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

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.

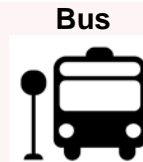
Survey responses indicate that the use of public transport as the typical mode of travel to work is limited:

- 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



6.4%



0.4%

### Highlights for 2017-18

Uptake of MYKI cards by Council's business units to encourage staff to utilise public transport.

### Current Actions for 2018-19

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 for 2017-18

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

1,398t-CO<sub>2</sub>e (2007-08)

### PERFORMANCE

0.5% Decrease in Emissions (2017-18)

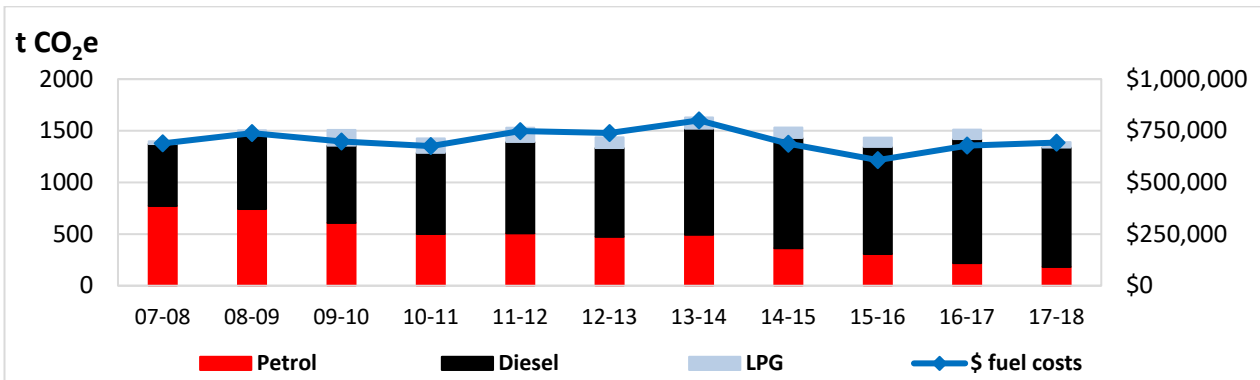
### OFF TARGET

In 2017-18, Council's vehicle fleet purchased 533,378L of fuel, which cost \$692,458 and emitted 1,390t-CO<sub>2</sub>e.

In 2011, Council's vehicle fleet total fuel consumption peaked at 633,086L and 1,390t-CO<sub>2</sub>e 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 fuel related emissions and costs are not included.

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



### Highlights for 2017-18

Ongoing 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.

### Current Actions for 2018-19

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.

- **Responsibility – Infrastructure Services & Planning**

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

- **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.

- **Responsibility – Infrastructure Services & Planning**

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

- **Responsibility – Infrastructure Services & Planning**

### Status

In Progress

Ongoing

Ongoing

Ongoing

### Completed Actions for 2017-18

Completed SECCA's Eco Driver Program trial to investigate opportunities to improve fuel economy and vehicle performance. ✓



## 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

**115.8 km Shared Paths |  
71.6 km On-road Bicycle Paths  
(July 2018)**

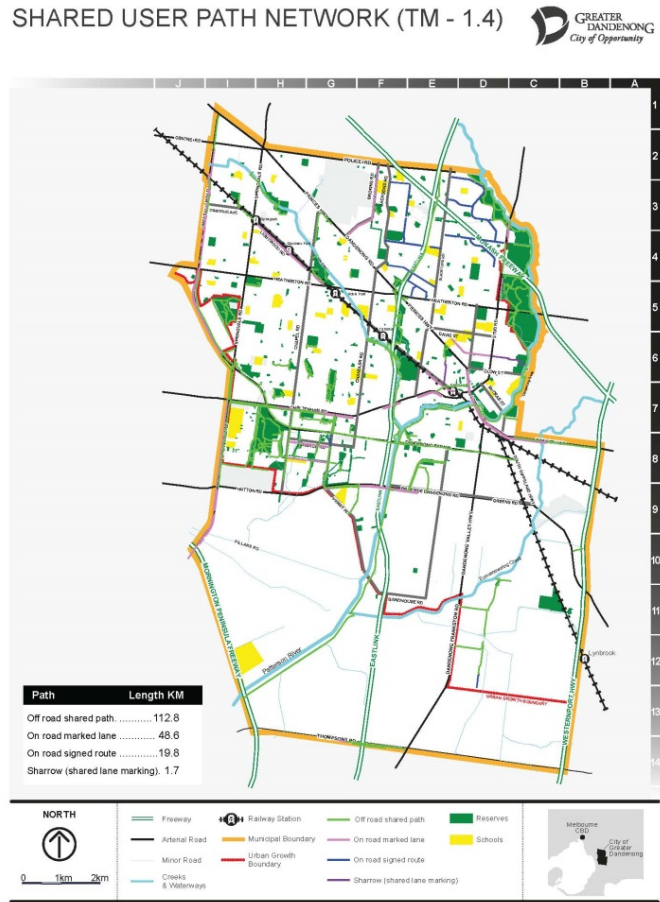
### ON TARGET

Figure TM – 1.4 shows the Shared User Path and Bicycle Network, which has expanded by 4.6 km in 2017-18 to a total of 187.4 km.

In addition to improve connectivity and accessibility of walking and cycling networks within the municipality, in 2017-18 Council has:

- Invested \$300,000 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**



### Highlight for 2017-18

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 for 2018-19

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

- **Responsibility – Transport & Civil Development**

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

- **Responsibility – Transport & Civil Development**

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.

- **Responsibility – Planning & Design + Transport & Civil Development**

### Status

**Ongoing**

**In progress**

**In progress**

### Completed Actions for 2017-18

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

Delivery of walking and cycling infrastructure through Council's 2017-18 City Improvement Program (CIP). ✓



## 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

2016 Residents Journeys to Work:  
1.4% Walk | 0.4% Cycle

### OFF TARGET

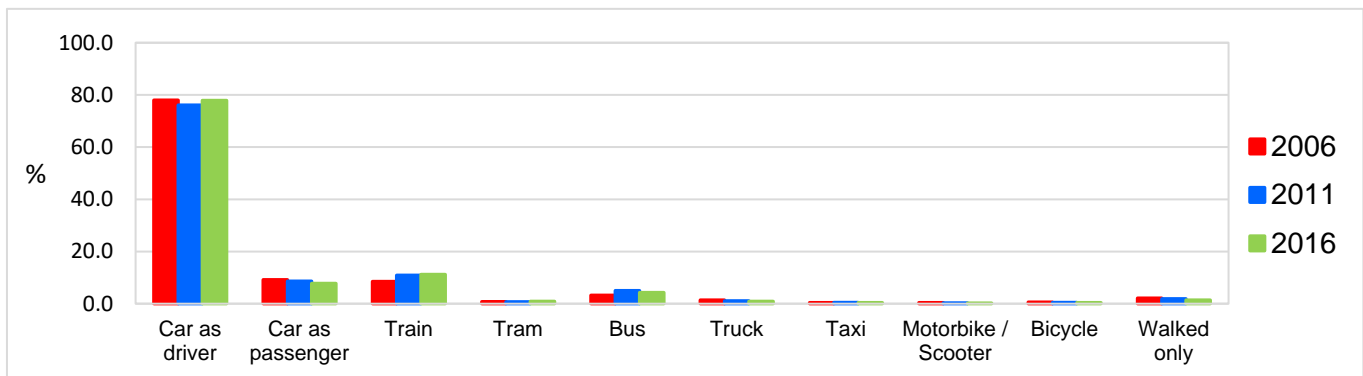
The private motor vehicle is the major mode of transport in Greater Dandenong. 2016 Census data indicates 85.7 out of 100 people travel to work by car.

In 2016, Journey to work Census data in Greater Dandenong showed:

- 1.4 out of 100 people walked, a 33% decrease when compared with 2006 Census data
- 0.4 out of 100 people cycled, a 33% decrease when compared with 2006 Census data

A comparison of 2006 and 2016 census data indicates that the trend for journeys to work by residents of Greater Dandenong is for increased reliance on cars and public transport, while walking and cycling decreased.

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



### Highlights for 2017-18

Engaged with the operators MoBike, and investigated the potential of Bike-Sharing within Greater Dandenong. Engagement with VicRoads on the proposed Strategic Cycling Corridors within Greater Dandenong and neighbouring Councils.

### Current Actions for 2018-19

Implementation of the Greater Dandenong Cycling Strategy 2017-24 & Greater Dandenong Walking Strategy 2015-23.

- **Responsibility – Sport & Recreation + Transport & Civil Development**

Promotion of events such as 'Walk2School Day' and activities such as local walking groups.

- **Responsibility – Sport & Recreation**

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

- **Responsibility – Transport & Civil Development**

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

- **Responsibility – Planning & Design**

### Status

Ongoing

Ongoing

Ongoing

Ongoing

### Completed Actions for 2017-18

Delivered 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.

✓





## 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

2016 Residents Journeys to Work:  
11.2 % Train | 4.3 % Bus (2016)

### EXCEEDS TARGET

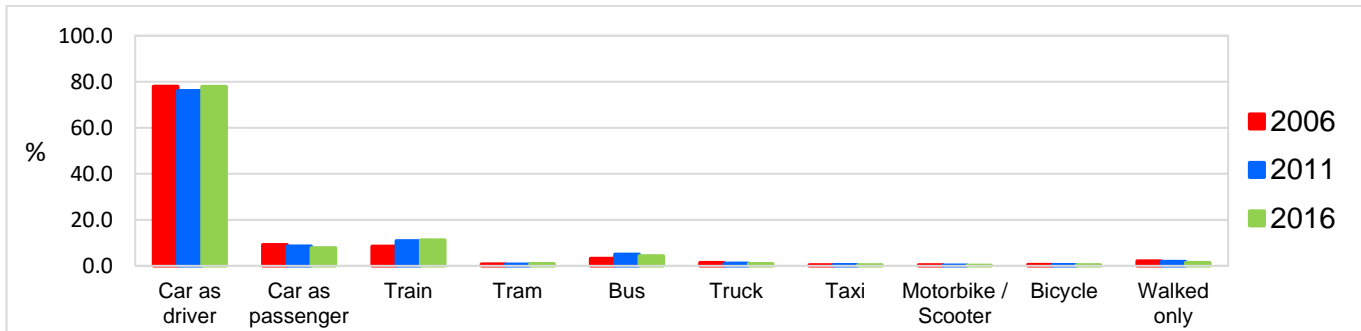
The private motor vehicle is the major mode of transport in Greater Dandenong. 2011 Census data indicates 85.7 out of 100 people travel to work by car.

2016 journey to work data for Greater Dandenong showed:

- 11.2 out of 100 people caught the train an increase of 32% when compared with 2006 Census data
- 4.3 out of 100 people caught a bus an increase of 34% when compared with 2006 Census data

A comparison between 2006 and 2016 census data indicates that the trend for journeys to work by residents of Greater Dandenong has shown a slight decrease in reliance on cars but greater use of public transport.

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



### Highlights for 2017-18

Level crossings at Corrigan Road, Heatherton Road and Chandler Road, Noble Park removed with the elevation of the rail line. This allows for an additional 80 new and extended services along the Dandenong rail corridor and improves walking, cycling and vehicular access to the nearby train stations.

### Current Actions for 2018-19

#### Status

Advocate to State Government for a new shuttle bus service between Dandenong Station and Dandenong South to accommodate workers in Dandenong South.

In Progress

- **Responsibility – Transport & Civil Development**

Develop policies regarding the provision of publicly available car sharing and electric car charging facilities.

In Progress

- **Responsibility – Transport & Civil Development**

Work with the LXRA on the Caulfield to Dandenong level crossing removal project and the provision of the new Noble Park Station.

In Progress

- **Responsibility – Planning & Design + Transport & Civil Development**

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**

Develop a Greater Dandenong Public Transport Advocacy Statement as part of the implementation of the Greater Dandenong Integrated Transport Plan 2017-2022.

In Progress

- **Responsibility – Transport & Civil Development**

### Completed Actions for 2017-18

Adoption of the Greater Dandenong Integrated Transport Plan 2017-2022.

✓

Adoption of the 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.

<b>2020 TARGET</b>
Increase % of Population (with Good Access)
<b>BASELINE</b>
34% Frequent Service   52% Less Frequent Service   14% No Service (2016)
<b>PERFORMANCE</b>
34% Frequent Service   55% Less Frequent Service   10% No Service within 400m (2018)
<b>ON TARGET</b>

**Figure TM – 2.3 Proximity of residential properties to public transport**

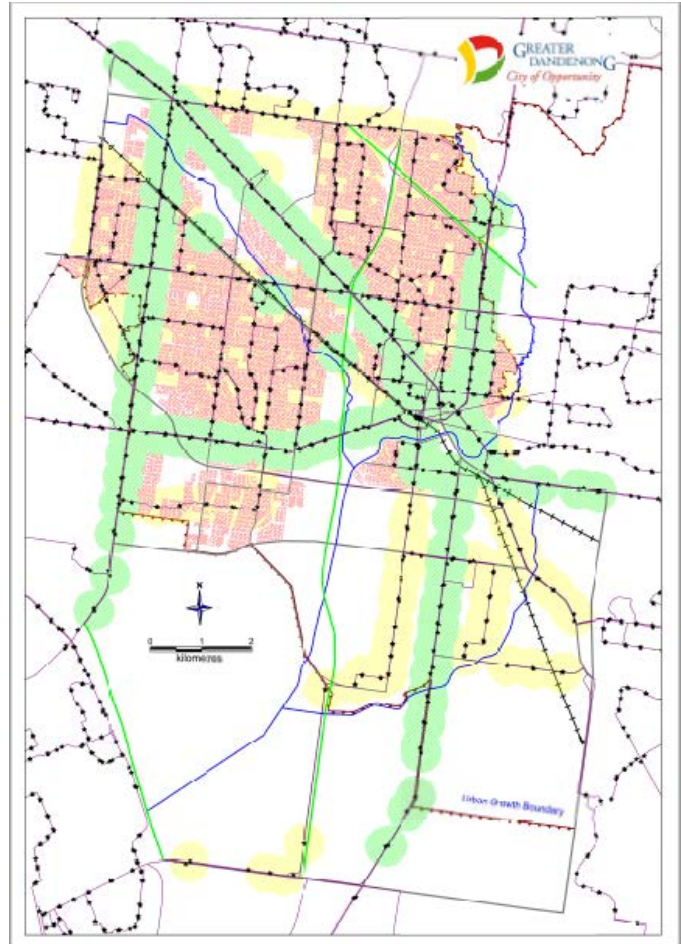


Figure TM – 2.3 shows:

- 34.5%** of residential properties occur within 400m of either a train station or primary bus stop (frequency of 20 minutes or less).
- 55.5%** of residential properties occur only within 400m of a secondary bus stop (frequency of 30 minutes or greater).
- 10%** of residential properties are not within 400m of either a train stop or bus stop.

### Highlights

New bus routes 890 and 709 have improved access in Dandenong South and Keysborough South with Dandenong Station and the new Noble Park Station.

### 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.

- **Responsibility – Transport & Civil Development + Planning & Design**

Advocate for a shuttle bus service to assist employees getting to work between Dandenong Station and Dandenong South

- **Responsibility – Transport & Civil Development**

Developing a Greater Dandenong Public Transport Advocacy Statement as part of the implementation of the Greater Dandenong Integrated Transport Plan 2017-2022.

- **Responsibility – Transport & Civil Development**

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

Adoption of Integrated Transport Plan 2017-2022.

✓

Completion of bus time-trials on potential routes.

✓



# Community Objective: TM – 2.4 Planning

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

## 2020 TARGET

50% of Applicable Development Applications

## BASELINE (2013-14)

25% of Applicable Development Applications

## PERFORMANCE (2017-18)

22% of Applicable Development Applications

## OFF TARGET

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.

In 2017/18 Council assessed the Environmentally Sustainable Design (ESD) credentials of 77 new development applications. This equals 22% of all new relevant development applications and 66% of development applications that meet the current SDAPP trigger levels set by Council.

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

- Transport and 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.

- Responsibility – Planning & Design

Encourage developers to incorporate low carbon transport options into planning applications.

- Responsibility – Planning & Design + Infrastructure Planning

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

- Responsibility – Planning & Design

## Status

In Progress

Ongoing

Ongoing

## Completed Actions

Development and launch of SDAPP Fact Sheets for Greater Dandenong.





## Community Objective: TM – 2.5 Awareness

Increase community awareness on the benefits of sustainable transport options.

<b>2020 TARGET</b>
<b>Monitor and Report</b>
<b>BASELINE</b>
<b>Existing Programs</b>
<b>PERFORMANCE</b>
<b>Existing Programs</b>
<b>ON TARGET</b>

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

Two articles published in the city article on sharing road space between different modes

### Current Actions

Current Actions	Status
Use Council's website, publications and social media to promote benefits of sustainable transport. <ul style="list-style-type: none"> <li><b>Ongoing   Responsibility – Communications &amp; Customer Service</b></li> </ul>	Ongoing
Ongoing implementation of the Greater Dandenong Cycling Strategy 2017-24 to promote activities and benefits of cycling. <ul style="list-style-type: none"> <li><b>Ongoing   Responsibility – Sport &amp; Recreation + Community Wellbeing</b></li> </ul>	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"> <li><b>Ongoing   Responsibility – Sport &amp; Recreation + Community Wellbeing</b></li> </ul>	Ongoing
Create and distribute walking and cycling maps that promote cycling for recreational and transport purposes. <ul style="list-style-type: none"> <li><b>Ongoing   Responsibility – Sport and Recreation</b></li> </ul>	Ongoing
Prepare sustainable transport advocacy material for promotion through Eastern Transport Coalition. <ul style="list-style-type: none"> <li><b>Ongoing   Responsibility – Transport</b></li> </ul>	In Progress

### Completed Actions

Run 'Share the Road Campaign' to promote road user respect – especially pedestrians and cyclists



# 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 - 11,635t CO <sub>2</sub> e	
CE – 1.2 Energy Efficiency	Gas. 43% Reduction – 3,754 GJ Elec. 11% Reduction – 9,684MW	
CE – 1.3 Low Carbon and Renewable Energy	Commitment to install 250 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 153.9 MJ per household per day	
CE – 2.3 Renewable Energy	146% increase since 2013 to 29,432 kW	
CE – 2.4 Planning	22% of Development Applications	
CE – 2.5 Awareness	Existing Programs	





## Corporate Objective: CE – 1.1 Carbon Emissions

Reduce Council's CO<sub>2</sub>e emissions from street lighting, buildings and facilities.

### 2020 TARGET

At least 20% Reduction

### BASELINE

14,688t CO<sub>2</sub>e (2007-08)

### PERFORMANCE

21% Reduction |  
11,635t CO<sub>2</sub>e (2017-18)

### EXCEEDS TARGET

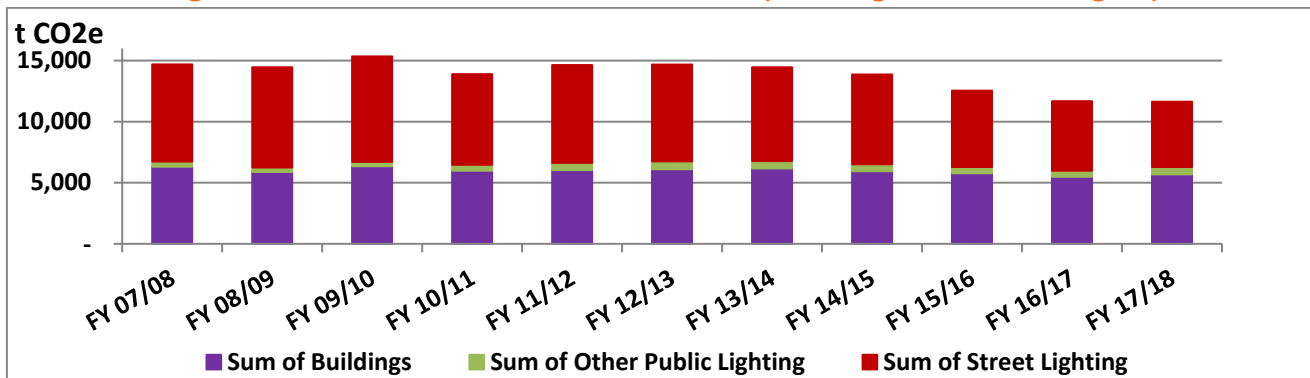
In 2017-18 greenhouse gas emissions from Council's street lights, buildings and other facilities were calculated to be 11,635 tonnes of carbon dioxide equivalent emissions (t CO<sub>2</sub>e). This is a reduction of 21% against the baseline of 14,688 t-CO<sub>2</sub>e in 2007-08.

Recent key measures to reduce emissions include:

- Commencement of Council's Climate Change Strategy and Action Plan, which includes the aim of ensuring Council effectively reduces its carbon emissions.
- Commencing the implementation of Council's 2017 Building Energy Management Plan to reduce energy use and increase uptake of renewable energy sources.
- Adoption of Council's Sustainable Buildings Policy.

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 CO<sub>2</sub>e emissions.

Figure CE – 1.1 Council – CO<sub>2</sub>e Emissions (Buildings and Street Lights)



### Highlights for 2017-18

The appointment of Ernst & Young to prepare Council's Climate Change Strategy and Action Plan by 2020.

### Current Actions for 2018-19

Action	Responsibility	Status
Develop Corporate CO <sub>2</sub> inventory for emissions as part of the Climate Change Strategy.	Planning & Design	In Progress
Springvale Community Hub to be built to achieve Zero Net Emissions.	City Improvement	In Progress
Implementation of Council's Sustainable Buildings Policy to reduce CO <sub>2</sub> emissions.	City Improvement	Ongoing
Implementation of Council's Building Energy Management Plan to reduce CO <sub>2</sub> emissions.	City Improvement	Ongoing
Implementation of Council's 'Lighting Up Greater Dandenong' project to reduce CO <sub>2</sub> emissions.	City Improvement	Ongoing
Work with SECCCA and other councils to identify opportunities for regional collaboration on projects that can reduce Council's CO <sub>2</sub> emissions.	Planning & Design	Ongoing

### Completed Actions for 2017-18

Implementation of Building Energy Management Plan actions at facilities such as the Dandenong Civic Centre and Thomas Street Multi-deck Carpark as part of the Capital Works Program. ✓



## Corporate Objective: CE – 1.2 Energy Efficiency

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

<b>2020 TARGET</b>
<b>At least 20% Reduction</b>
<b>BASELINE (2007-08)</b>
Gas 6,371 GJ Elec. 10,848 MW
<b>PERFORMANCE (2017-18)</b>
Gas. 43% reduction – 3,754 GJ   Elec. 11% reduction – 9,684 MW
<b>ON TARGET</b>

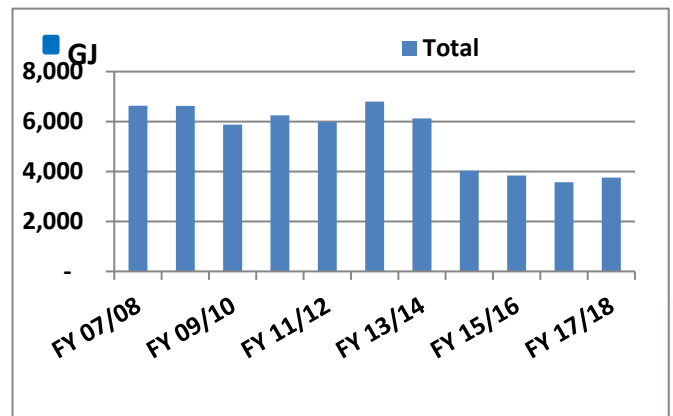
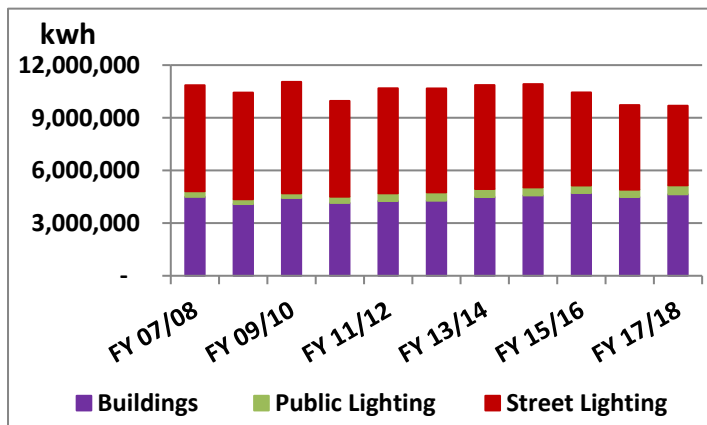
Energy usage by Council's street lights, buildings and other facilities (where Council pays the utility bills) for 2017-18 was:

- Gas – 3,754 GJ (43% reduction against 2007-08 baseline)
- Electricity – 9,684 MW (11% reduction against 2007-08 baseline).

Recent key measures to reduce energy consumption include:

- Commencement of Council's Climate Change Strategy and Action Plan, which includes the aim of ensuring Council effectively reduces its carbon emissions.
- Adoption of Council's Sustainable Buildings Policy.
- \$400,000 invested in 2017-18 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 for 2017-18

Adoption of the Sustainable Building Policy for the design, construction and operation of Council's buildings.

### Current Actions for 2018-19

Action	Status
Springvale Community Hub to be built to achieve the 5 Star Green Star Standard.	In Progress
<ul style="list-style-type: none"> <li>▪ Responsibility – City Improvement</li> </ul>	
Implementation of Council's Sustainable Buildings Policy to reduce energy use.	Ongoing
<ul style="list-style-type: none"> <li>▪ Responsibility – City Improvement</li> </ul>	
Implementation of Council's Building Energy Management Plan to reduce energy use.	Ongoing
<ul style="list-style-type: none"> <li>▪ Responsibility – City Improvement</li> </ul>	
Implementation of Council's 'Lighting Up Greater Dandenong' project to reduce electricity use.	Ongoing
<ul style="list-style-type: none"> <li>▪ Responsibility – City Improvement</li> </ul>	
Incorporate energy efficiency requirements in specifications for building plant and equipment.	In Progress
<ul style="list-style-type: none"> <li>▪ Responsibility – Planning &amp; Design + City Improvement</li> </ul>	

### Completed Actions for 2017-18

Commencement of energy efficiency measures identified in the Building Energy Management Plan	✓
\$400,000 invested in 2017-18 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.

<b>2020 TARGET</b>
Install 250 kWh by 2020
<b>BASELINE</b>
5 kW* (Estimate 2016)
<b>PERFORMANCE</b>
Commitment to install in excess of 250 kWh
<b>ON TARGET</b>

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
- The installation of 100kW solar pv system at the Dandenong Civic Centre
- The adoption of Council's Sustainable Buildings Policy.

The Building Energy Management Plan – based on 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 for 2017-18

Springvale Community Hub to install minimum 200kW PV system and become a Zero Net Emission building.  
Commencement of the project to install a 100kW solar PV system at the Dandenong Civic Centre.

### Current Actions for 2018-19

	<b>Status</b>
Springvale Community Hub to use minimum 5 Star Green Star Design and As-Built Standard. ▪ <b>Responsibility – City Improvement</b>	<b>In Progress</b>
Installation of a 100kW solar pv system on the Dandenong Civic Centre as part of Council's 2018-19 Capital Works Program. ▪ <b>Responsibility – City Improvement</b>	<b>In Progress</b>
Implementation of Council's Sustainable Buildings Policy to increase sources of renewable energy where appropriate. ▪ <b>Responsibility – City Improvement</b>	<b>Ongoing</b>
Implementation of Council's Building Energy Management Plan to increase sources of renewable energy. ▪ <b>Responsibility – City Improvement</b>	<b>Ongoing</b>

### Completed Actions for 2017-18

Public tender for design and installation of 100kW solar PV system on Dandenong Civic Centre. ✓





## Corporate Objective: CE – 1.4 Climate Change

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

<b>2020 TARGET</b>
Climate Change Strategy
<b>BASELINE</b>
Existing Policies and Strategies
<b>PERFORMANCE</b>
Commencement of Climate Change Strategy
<b>ON TARGET</b>

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

With 'planning for climate change risks' having been incorporated into the *Overarching Guiding Principles* of the *Local Government Bill 2018* that is currently before the Victorian Parliament, the preparation of this Strategy and Action Plan has become of greater importance to Council.

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.

The aim of the Climate Change Strategy and Action Plan will be to help both Council and the community reduce their greenhouse emissions and prepare for the impacts of climate change. Work has progressed on the development of the Strategy, with Ernst and Young having been appointed in June 2018.

Figure CE – 1.4 Plans and Strategies Linked to Climate Change



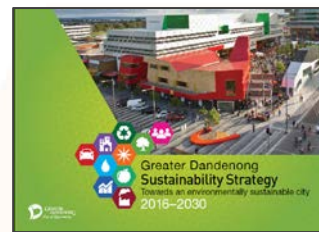
2017-21 Council Plan



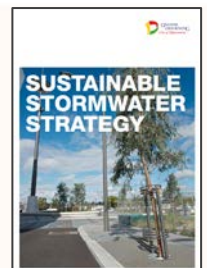
Community Wellbeing Plan



Risk Management Strategy



Sustainability Strategy



Sustainable Stormwater Strategy

### Highlights for 2017-18

The commencement by Council of the Greater Dandenong Climate Change Strategy and Action Plan.

### Current Actions for 2018-19

Implementation of Council's Sustainable Stormwater Strategy.

- **Responsibility – Infrastructure Services & Planning**

**Status**

Ongoing

Ongoing management of risk through Council's Risk Management Policy and Strategy.

- **Responsibility – People & Procurement Services**

Ongoing

Preparation of background reports to provide an evidence base to inform initial community consultation and subsequent draft of the Climate Change Strategy and Action Plan.

- **Responsibility – Planning & Design + People & Procurement Services**

In Progress

### Completed Actions for 2017-18

Adoption of Council's Sustainable Stormwater Strategy.

✓



## Community Objective: CE – 2.1 Carbon Emissions

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

<b>2020 TARGET</b>
Aspire for a 10% Reduction
<b>BASELINE</b>
24.5 kg CO2e per household per day (Victoria – 2007)*
<b>PERFORMANCE</b>
Limited Data
<b>NOT AVAILABLE</b>

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.

However, there is currently limited data available on the emissions profile of Greater Dandenong's households and businesses.

Council's new Climate Change Strategy and Action Plan will help to address this by:

- Developing a community emissions profile for the Greater Dandenong Municipality, using the Greenhouse Gas Protocol, a standard international benchmark widely used by other local governments
- Identify a prioritised list of actions to reduce emissions
- Identify science based targets
- Recommending pathways to achieve these targets
- Community consultation and engagement.

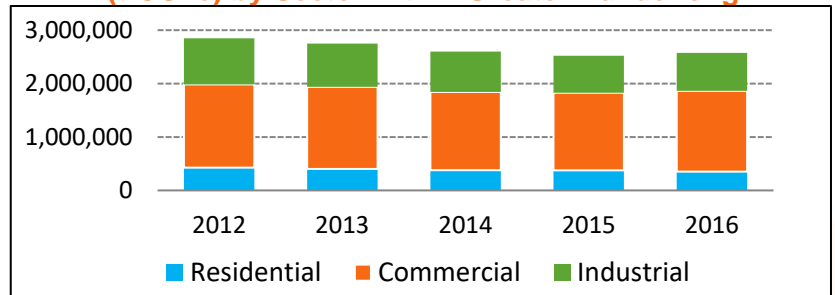
Figure CE–2.1a Average Victorian Household CO2 Emissions\*^



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

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

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 for 2017-18

Installation of a 100kw Solar PV system by a Dandenong South business because of participation in Council's Environmental Upgrade Agreement program with the Sustainable Melbourne Fund.

### Current Actions for 2018-19

Action	Status
Work with SECCCA to develop and implement programs to reduce community CO2e emissions.	Ongoing
<ul style="list-style-type: none"> <li>▪ Responsibility – Planning &amp; Design</li> </ul>	
Promote reduction of CO2 emissions through website, publications, events and programs.	Ongoing
<ul style="list-style-type: none"> <li>▪ Responsibility – Communications &amp; Customer Service + Planning &amp; Design</li> </ul>	
Development of the Greater Dandenong Climate Change Strategy and Action Plan.	In Progress
<ul style="list-style-type: none"> <li>▪ Responsibility – Planning &amp; Design + People &amp; Procurement Services</li> </ul>	
Work with the Sustainable Melbourne Fund to promote Environmental Upgrade Agreements (EUA's) to local businesses to facilitate building upgrades that achieve sustainability outcomes.	Ongoing
<ul style="list-style-type: none"> <li>▪ Responsibility – Planning &amp; Design</li> </ul>	

### Completed Actions for 2017-18

Establishment of the Environmental Upgrade Agreement program at Greater Dandenong. ✓



## Community Objective: CE – 2.2 Energy Efficiency

Help the community reduce energy consumption within the built environment.

### 2020 TARGET

Aspire for a 10% Reduction

### BASELINE

Elec. 14.2 kWh | Gas 140 MJ  
per household per day<sup>^</sup> (2007)

### PERFORMANCE

Elec. 11.2kWh | \*Gas 153.9 MJ  
per household per day (2017)

### OFF TARGET

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<sup>^</sup> 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

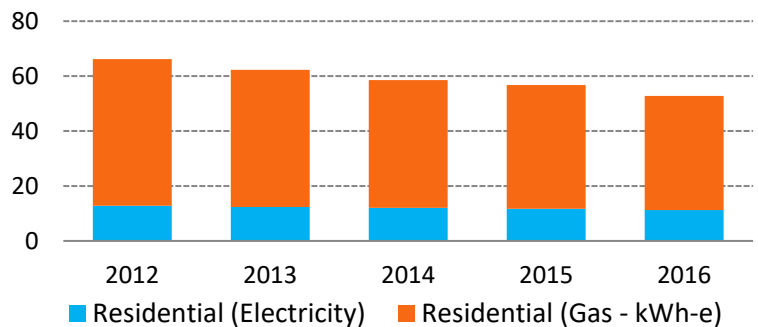
Figure CE – 2.2 Energy Use for Average Households\*

### 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 for 2017-18

Progression of Local ESD Policy in the Greater Dandenong planning scheme.

### Current Actions for 2018-19

Assess the environmental performance of new buildings as part of the planning process.

- **Responsibility – Planning & Design**

**Status**

**Ongoing**

Promote energy efficiency through website, publications, events and programs.

- **Responsibility – Communications & Customer Service + Planning & Design**

**Ongoing**

Work with SECCCA and other key stakeholders where appropriate to help the community reduce energy consumption within the built environment.

- **Responsibility – Planning & Design**

**Ongoing**

### Completed Actions for 2017-18

Public exhibition of Local ESD Planning Policy.

✓



## 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

146% increase in the community's solar kW capacity since 2013 (July 2018)

### ON TARGET

The recorded rated solar capacity (kW) for postcodes that occur within Greater Dandenong\* was 29,432 kW as of 16 July 2018. This is a 146 per cent increase on the 11,979 of rated solar kW capacity at the end of 2013.

Dandenong (39 per cent) has the highest rated kW output, followed by Springvale (including Springvale South) with 24 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 Monash and Kingston. The municipalities of Frankston and Casey both have significantly greater levels of solar kW capacity.

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

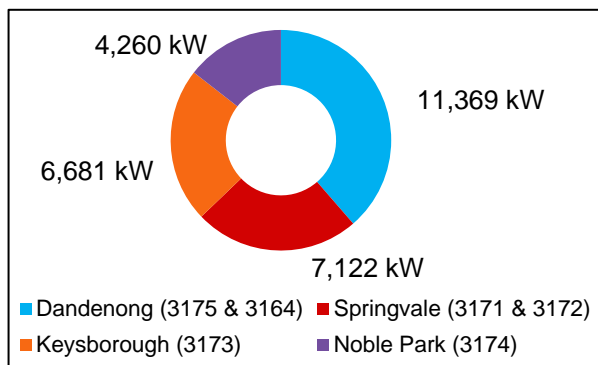
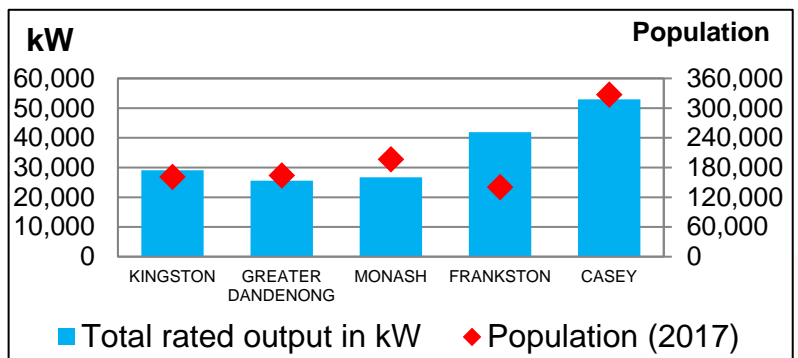


Figure CE – 2.3b Solar Panel Capacity (kW)\* & Population of Greater Dandenong and other Councils



\*Source: Clean Energy Regulator's Postcode data for small scale Solar PV installations – as at 16/ 07/ 2018.

### Highlights for 2017-18

Installation of a 100kW Solar PV system by a Dandenong South business as a result of participation in Council's Environmental Upgrade Agreement program with the Sustainable Melbourne Fund.

### Current Actions for 2018-19

Current Actions for 2018-19	Status
Development of a Climate Change Strategy for Council and City of Greater Dandenong. <ul style="list-style-type: none"> <li>Responsibility – Planning &amp; Design + People &amp; Procurement Services</li> </ul>	In Progress
Working with the Sustainable Melbourne Fund to increase uptake by local businesses of EUA's to facilitate increased uptake of renewable energy. <ul style="list-style-type: none"> <li>Responsibility – Economic Development Unit + Planning &amp; Design</li> </ul>	In Progress
Promote increased uptake of renewable energy through Council's website, publications, events and programs. <ul style="list-style-type: none"> <li>Responsibility – Media &amp; Communications + Planning &amp; Design</li> </ul>	Ongoing
Work with SECCCA and other key stakeholders to encourage the uptake of renewable energy across municipality and region. <ul style="list-style-type: none"> <li>Responsibility – Planning &amp; Design</li> </ul>	Ongoing



## Community Objective: CE – 2.4 Planning

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

### 2020 TARGET

50% of Development Applications

### BASELINE

25% of Development Applications (2013-14)

### PERFORMANCE

22% of Development Applications (2017-18)

### OFF TARGET

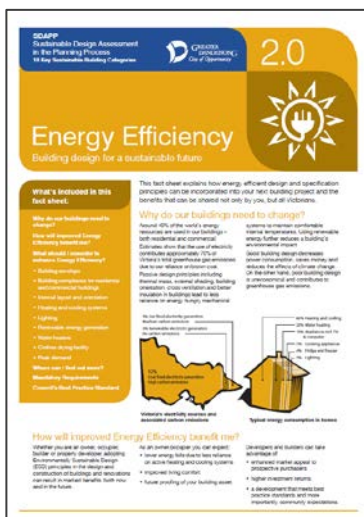
Around 40% of the world's energy resources are used in our buildings – both residential and commercial.

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 2017/18 Council assessed the Environmentally Sustainable Design (ESD) credentials of 77 new development applications. This equals 22% of all new relevant development applications and 66% of development applications that meet the current SDAPP trigger levels set by Council.

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.

- **Responsibility – Planning & Design**

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

- **Responsibility – Planning & Design**

Encourage a minimum 10% improvement on energy performance for planning applications.

- **Responsibility – Planning & Design**

## Status

In Progress

Ongoing

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.

<b>2020 TARGET</b>
<b>Monitor and Report</b>
<b>BASELINE</b>
<b>Existing Programs</b>
<b>PERFORMANCE</b>
<b>Existing Programs</b>
<b>ON TARGET</b> 

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



2018 Sustainability Festival

Figure CE – 2.5b Council Partners in 2018



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

### Highlights for 2017-18

Delivery of the 2017-18 Greater Dandenong Sustainability Festival and Awards.

### Current Actions for 2018-19

	<b>Status</b>
Delivery of the Greater Dandenong Sustainability Festival and Awards in 2018-19.	<b>In Progress</b>
<ul style="list-style-type: none"> <li>▪ <b>Responsibility – Planning &amp; Design</b></li> </ul>	
Promote benefits of adapting to climate change and reducing carbon emissions in CGD publications.	<b>Ongoing</b>
<ul style="list-style-type: none"> <li>▪ <b>Responsibility – Media and Communications + Planning &amp; Design</b></li> </ul>	
Use CASBE's SDAPP framework and BESS assessment tool to assess planning applications.	<b>Ongoing</b>
<ul style="list-style-type: none"> <li>▪ <b>Responsibility – Planning &amp; Design</b></li> </ul>	
Work with local energy distributors to identify opportunities to reduce energy consumption.	<b>In Progress</b>
<ul style="list-style-type: none"> <li>▪ <b>Responsibility – Planning &amp; Design</b></li> </ul>	
Work with the Sustainable Melbourne Fund to promote Environmental Upgrade Agreements (EUA's) to local businesses to facilitate improved energy efficiency and uptake of renewable energy.	<b>In Progress</b>
<ul style="list-style-type: none"> <li>▪ <b>Responsibility – Economic Development Unit + Planning &amp; Design</b></li> </ul>	
Work with SECCCA to develop and implement regional programs to reduce community CO2e emissions.	<b>Ongoing</b>
<ul style="list-style-type: none"> <li>▪ <b>Responsibility – Planning &amp; Design</b></li> </ul>	
Work with Sustainability Victoria to facilitate increases in energy efficiency and renewable energy.	<b>Ongoing</b>
<ul style="list-style-type: none"> <li>▪ <b>Responsibility – Economic Development Unit + Planning &amp; Design</b></li> </ul>	

### Completed Actions for 2017-18

2017-18 Sustainability Festival and Awards.

✓



# 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: 10% Decrease 5,684 MWh Water: 9% Increase 40.2 ML	
BP-1.2 Sustainability of New Buildings	Sustainable Buildings Policy	
BP-1.3 Building Performance	Energy: 78% increase since 2006-07 Water: 271% increase since 2006-07	

## Community Objectives

## Performance Indicator

BP-2.1 ESD – Existing Buildings	Water - 336 Litres   Energy – 53 kWh	
BP-2.2 Places (Place Scores)	Highest – 74 / 100 Harmony Square Lowest – 29 / 100 Post Office Lane	
BP-2.3 Walkability (Walkscore)	Dandenong – 64   Springvale – 66   Noble Park – 48   Keysborough – 49	
BP-2.4 Planning	22% of Development Applications	
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

6,344 MWh (2007-08) |  
37ML/year (2006-07)

### PERFORMANCE

<b>Energy:</b> 10% Decrease   5,684 MWh (2017-18)	<b>Water:</b> 9% Increase   40.2ML (2017-18)
--	---

### OFF TARGET

For buildings that Council pays the energy and water accounts:

Energy usage was 5,684 MWh in 2017-18

- 10% decrease against the 2007-08 baseline of 6,344 MWh
- 4% increase compared to 5,475 MWh used in 2016-17.

Potable water usage was 40.2 Megalitres (ML) in 2017-18

- 9% increase against the 2006-07 baseline of 37 ML
- 7% increase compared to 37.6ML used in 2016-17

Note: Changes to building stock, and a focus on optimising usage of community facilities, through measures such as increasing the hours each library is open, may have an impact on energy and water usage over time.

Figure BP – 1.1a Water Consumption (Buildings)

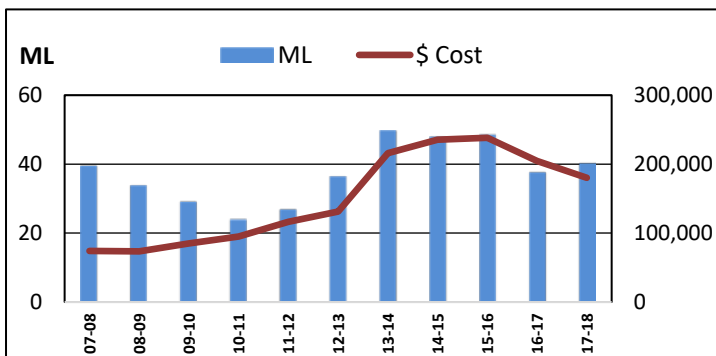
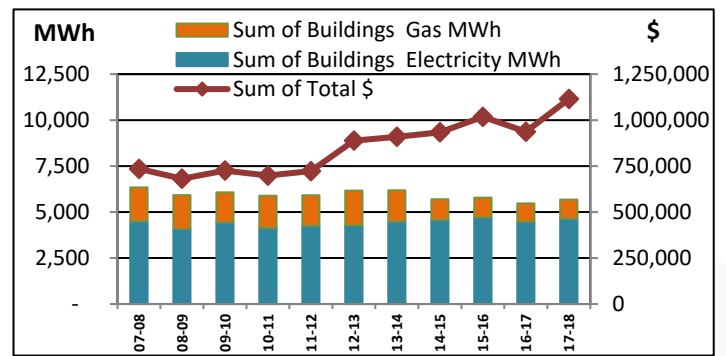


Figure BP – 1.1b Energy Consumption (Buildings)



### Highlights 2017-18

Adoption by Council of the Sustainable Building Policy that will assist reduce energy and water consumption.

Finalisation of the Building Energy Management Plan and implementation of its recommendations

### Current Actions 2018-19

Installation of a 100kW Solar PV system at the Dandenong Civic Centre.

- **Responsibility – City Improvement**

Status

In Progress

Implementation of the Sustainable Buildings Policy that will help reduce energy and water usage.

- **Responsibility – City Improvement**

Ongoing

Implementation of Building Energy Management Plan and its key recommendations.

- **Ongoing | Responsibility – City Improvement**

Ongoing

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

- **Ongoing | Responsibility – People & Procurement Services + Planning & Design**

Ongoing

### Completed Actions 2017-18

Use of CarbonMetrix to track utility consumption and costs.





## 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.

<b>2020 TAREGT</b>
<b>All New Buildings = ESD Best Practice</b>
<b>BASELINE</b>
<b>Existing Programs</b>
<b>PERFORMANCE</b>
<b>Council Sustainable Buildings Policy</b>
<b>ON TARGET</b>

In October 2017, Council formally adopted the Sustainable Buildings Policy.

The Sustainable Buildings Policy has been established by Council to ensure that environmentally sustainable design principles are incorporated into the design, construction, operation, management and disposal of buildings owned and managed by Council.

Council owns over 296 buildings that it directly own and manages, valued at around \$333M, as of the end of the 2014/15 financial year.

The Policy ensures that all capital works, including the construction and refurbishment, renewals and disposals, of Council buildings minimises adverse environmental impacts, such as energy use, water use and waste generation, during the construction and operational phases of a building's life.

Figure BP – 1.2 New Council buildings with significant ESD Features



Dandenong Civic Centre



Springvale Community Precinct.

### Highlights 2017-18

Springvale Civic Precinct designed to be Zero Emissions and to be a 5 Star Green Star building.

### Current Actions 2018-19

	Status
Implement the Sustainable Buildings Policy for design and construction of Council buildings.	<b>Ongoing</b>
▪ <b>Responsibility – Planning &amp; Design + City Improvement</b>	
Springvale Civic Precinct to be built to meet the 5 Star Green Star Design & As Built Standard.	<b>In Progress</b>
▪ <b>Responsibility – City Improvement</b>	
Develop Specifications Guidance to support implementation of Sustainable Buildings Policy.	<b>In Progress</b>
▪ <b>Responsibility – City Improvement + Planning &amp; Design</b>	
Trial the SECCCA ESD Matrix in support of the implementation of Sustainable Buildings Policy.	<b>In Progress</b>
▪ <b>Responsibility – Planning &amp; Design + City Improvement</b>	

### Completed Actions 2017-18

Adoption of Sustainable Buildings Policy by Council. ✓





## Corporate Objective: BP – 1.3 Building Performance

Reduce the operational cost and CO2 emissions from Council buildings.

<b>2020 TARGET</b>
Reduce Operational Costs
<b>BASELINE</b>
Energy Costs: \$625,640 (2006-07) Water Costs: \$66,425 (2006-07)
<b>PERFORMANCE</b>
Energy: \$1,114,686 (2017-18) Water: \$180,323 (2017-18)
<b>OFF TARGET</b>

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

- \$1,114,686 for energy in 2017-18
- \$180,323 for water in 2017-18.

This represents:

- 78% increase in charges for energy from 2006-07 to 2017-18
- 271% increase in charges for water from 2006-07 to 2017-18

Figure BP-1.3b demonstrates that while actual energy consumption has remained either relatively stable or reduced over the last 10 years there has been a significant increase in the price per kWh.

To address this, in 2017-18 Council established the Building Energy Management Plan, which sets out a program of works that will reduce the operational costs of its existing buildings.

Figure BP – 1.3a Water costs of Council buildings

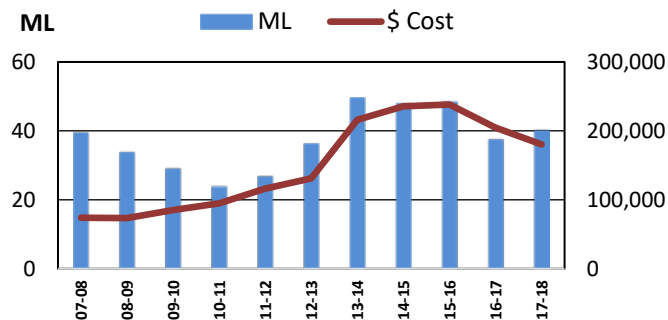
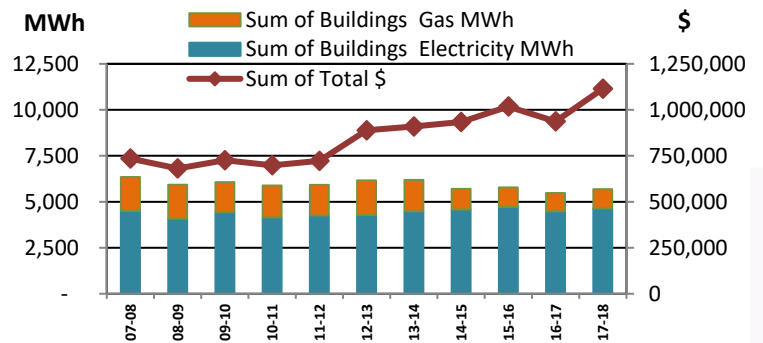


Figure BP – 1.3b Energy costs of Council buildings



### Highlights 2017-18

\$500,000 allocated in 2018-19 to implementation the Building Energy Management Plan.

### Current Actions 2018-19

Current Actions 2018-19	Status
Implementation of Sustainable Buildings Policy as part of asset management program. <ul style="list-style-type: none"> <li>▪ Responsibility – City Improvement + Planning &amp; Design</li> </ul>	Ongoing
Implementation of Building Energy Management Plan as part of Capital Improvement Projects. <ul style="list-style-type: none"> <li>▪ Responsibility – City Improvement + Planning &amp; Design</li> </ul>	Ongoing
Monitor and report on Council's energy and water usage. <ul style="list-style-type: none"> <li>▪ Ongoing   Responsibility – People &amp; Procurement Services + City Improvement</li> </ul>	Ongoing
Installation of a Solar PV System at the Dandenong Civic Centre. <ul style="list-style-type: none"> <li>▪ Responsibility – Planning &amp; Design + City Improvement</li> </ul>	In Progress
Develop Specifications Guidance to support the Sustainable Buildings Policy. <ul style="list-style-type: none"> <li>▪ Responsibility – City Improvement</li> </ul>	In Progress

### Completed Actions 2017-18

Design of 100kw Solar PV System for Dandenong Civic Centre completed – to be installed in 2018-19.



## Community Objective: BP – 2.1 Existing Buildings

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

<b>2020 TARGET</b>
<b>Aspire for 10% Reduction</b>
<b>BASELINE</b> (per household per day)
<b>Water - 437 Litres (2007-08)</b> <b>Energy - 55 kWh (2004)</b>
<b>PERFORMANCE</b> (per household per day)
<b>Water - 336 Litres  </b> <b>Energy – 53kWh</b>
<b>ON TARGET</b>

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.

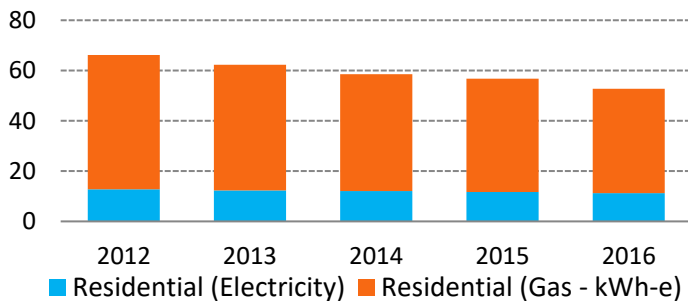
These standards were enhanced in 2005 with the introduction of the requirement for a minimum 5 Star Standard in energy efficiency based on a House Energy Rating (HER).

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.

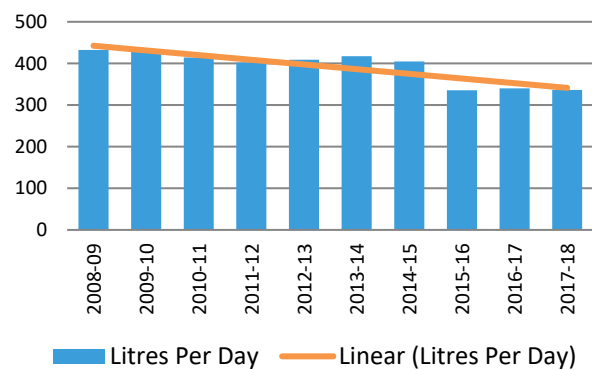
Figure BP – 2.1 Existing Buildings (Residential)

### Average Daily Gas + Electricity Consumption



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

### Average Daily Water Consumption



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

## Highlights 2017-18

Use of the Residential Efficiency Scorecard with SECCCA to assess performance of low-income households.

## Current Actions 2018-19

Current Actions 2018-19	Status
Promote energy and water efficiency through CGD websites, publications, events and programs.	<b>Ongoing</b>
<ul style="list-style-type: none"> <li>Responsible – Communications &amp; Customer Service + Planning &amp; Design</li> </ul>	
Work with United Energy to improve data availability and identify opportunities to reduce energy.	<b>In Progress</b>
<ul style="list-style-type: none"> <li>Responsible – Planning &amp; Design</li> </ul>	
Promote EUA's to local businesses to facilitate a building upgrade to improve energy efficiency.	<b>In Progress</b>
<ul style="list-style-type: none"> <li>Responsible – Economic Development Unit + Planning &amp; Design</li> </ul>	
Work with South East Water to increase community awareness and save water.	<b>Ongoing</b>
<ul style="list-style-type: none"> <li>Responsible – Economic Development Unit + Planning &amp; Design</li> </ul>	



## Community Objective: BP – 2.2 Places

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

<b>2020 TARGET</b>
<b>Increase each Place Score + Number of Place Scores</b>
<b>BASELINE</b>
<b>See Figure BP-2.2</b>
<b>PERFORMANCE</b>
<b>Highest – 74/100 Harmony Square (Dandenong)</b>
<b>Lowest – 29/100 Post Office Lane (Springvale)</b>
<b>ON TARGET</b>

Place Scores measure the place's aesthetics, sense of welcome, social offer, uniqueness, care and maintenance that 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		
<b>Harmony Square</b> 74 Greet Place	<b>Palm Plaza</b> 60 Good	<b>Settlers Square</b> 48 Needs Help!	<b>Buckingham Avenue</b> 69 Good	<b>Multicultural Place</b> 68 Good	<b>Post Office Lane</b> 29 Needs Help!	<b>Douglas Street</b> 64 Good	<b>Noble Park Civic Space</b> 63 Good	<b>Ian Street</b> 33 Needs Help!
<b>Langhorne Place</b> 52 Good		<b>Little India</b> 54 Good	<b>Station Precinct</b> 41 Needs Help!	<b>Springvale Road</b> 62 Good		<b>Douglas Street North</b> 59 Good		

### Highlights 2017-18

Place Scores for 14 locations in the Dandenong, Springvale and Noble Park activity centres have been completed. Pedestrian and Behaviour mapping completed in key Activity Centre with relevant Place Scores.

### Current Actions 2018-19

	Status
Heat island and shade mapping of all Activity Centre to be completed in 2018-19	<b>Not Started</b>
▪ <b>Responsibility – Activity Centres Revitalisation + Planning &amp; Design</b>	
Alignment of key initiatives in Activity Centres with Greening Our City – Urban Street Tree Strategy	<b>Ongoing</b>
▪ <b>Responsibility – Activity Centres Revitalisation + Infrastructure Services &amp; Planning</b>	
Noble Park Activity Centre – trees in planter boxes and seating to improve amenity and comfort.	<b>In Progress</b>
▪ <b>Responsibility – Activity Centres Revitalisation + Infrastructure Services &amp; Planning</b>	
Springvale Activity Centre – Pedestrian mapping to be collected in 2018-19.	<b>In Progress</b>
▪ <b>Responsibility – Activity Centres Revitalisation + Infrastructure Services &amp; Planning</b>	
Dandenong Activity Centre - Walker Street Streetscape upgrade will see increase of 15 street trees	<b>In Progress</b>
▪ <b>Responsibility – Activity Centres Revitalisation + Infrastructure Services &amp; Planning</b>	

### Completed Actions 2017-18

Improvements to social offerings implemented in Harmony Square and Multicultural Place in 2017/18.	✓
Green wall installed as part of the Springvale Post Office Lane revitalisation.	✓
Design principle of 'No Net Loss of Existing Street Trees' applied to Langhorne Place and Walker Street	✓



## 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	
2018:	
Dandenong – 64	Noble Park – 48
Springvale – 66	Keysborough – 49
ON TARGET	

Walk Score 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.

Beyond Walk Score Council has been delivering a range of initiatives to increase the walkability of the municipality. See the Current Actions for the details on each initiative.

An updated assessment in August 2018 of the walkability of suburbs within Greater Dandenong using the online Walk Score tool provided the following scores:

Figure BP – 2.3 Walkscores for Greater Dandenong Suburbs

### Dandenong

Walk Score

64

### Springvale

Walk Score

66

### Noble Park

Walk Score

48

### Keysborough

Walk Score

49

### Highlights 2017-18

Implementation of key actions by Council in the Greater Dandenong Walking Strategy 2015-23.

### Current Actions 2018-19

Status

Deliver new paths through Active Transport Infrastructure Priority Program in line with Design Guide.	Ongoing
▪ <b>Responsibility – Transport &amp; Civil Development</b>	
Promote the role of crossing supervisors at schools and along main roads.	Ongoing
▪ <b>Responsibility – Residential Amenities</b>	
Promote walking routes with accessible amenities suitable for families, children, elderly and disabled.	Ongoing
▪ <b>Responsibility – Community Wellbeing</b>	
Improve the walkability in major activity centres in accordance with the Place Making Framework.	Ongoing
▪ <b>Responsibility – Activity Centre Revitalisation</b>	

### Completed Actions 2017-18

Status

Advocate place stories within Activity Centres that creates sense of place and encourages walking.	Ongoing
▪ <b>Responsibility – Activity Centre Revitalisation</b>	
Increase the share path network throughout Greater Dandenong by 4.6km to 187km.	Ongoing
▪ <b>Responsibility – Transport &amp; Civil Development</b>	



# Community Objective: BP – 2.4 Planning

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

<b>2020 TARGET</b>
<b>50% of Development Applications</b>
<b>BASELINE</b>
<b>25% of Development Applications (2013-14)</b>
<b>PERFORMANCE</b>
<b>22% of Development Applications (2017-18)</b>
<b>OFF TARGET</b>

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 2017/18 Council assessed the Environmentally Sustainable Design (ESD) credentials of 77 new development applications. This equals 22% of all new relevant development applications and 66% of development applications that meet the current SDAPP trigger levels set by Council.

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 2017-18

Implementation of the Built Environment Sustainability Scorecard (BESS) an online tool for planning applications. The ATO building in Central Dandenong was awarded 6 Star Green Star – World Leadership for sustainable buildings.

## Current Actions 2018-19

Advocate for higher ESD standards at Planning and Building stage of development process.

- Responsibility – Planning & Design

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

- Responsibility – Planning & Design

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

- Responsibility – Planning & Design

## Status

Ongoing

In Progress

Ongoing

## Completed Actions 2017-18

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.

<b>2020 TARGET</b>
<b>Monitor and Report</b>
<b>BASELINE</b>
<b>Existing Programs</b>
<b>PERFORMANCE</b>
<b>Existing Programs</b>
<b>ON TARGET</b>

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 2017-18

The 2018 Greater Dandenong Sustainability Festival and Awards.

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 2018-19

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

### Completed Actions 2017-18

2018 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	Existing Programs	
EP – 1.2 Water Pollution	Existing Programs	
EP – 1.3 Air Pollution	Existing Programs	

## Community Objectives

## Performance Indicator

EP – 2.1 Land Use Pollution	Limited Data	
EP – 2.2 Water Pollution	97.4% of Catchment rated Very Poor   (Whole of Dandenong Creek) (2016-17)	
EP – 2.3 Air Pollution	Air Quality Index Dandenong – Fair (2015)	
EP – 2.4 Planning	22% of Development Applications (2017-18)	
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.

<b>2020 TARGET</b>
<b>Monitor and Report</b>
<b>BASELINE</b>
<b>Existing Program</b>
<b>PERFORMANCE</b>
<b>Existing Programs</b>
<b>ON TARGET</b>

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.

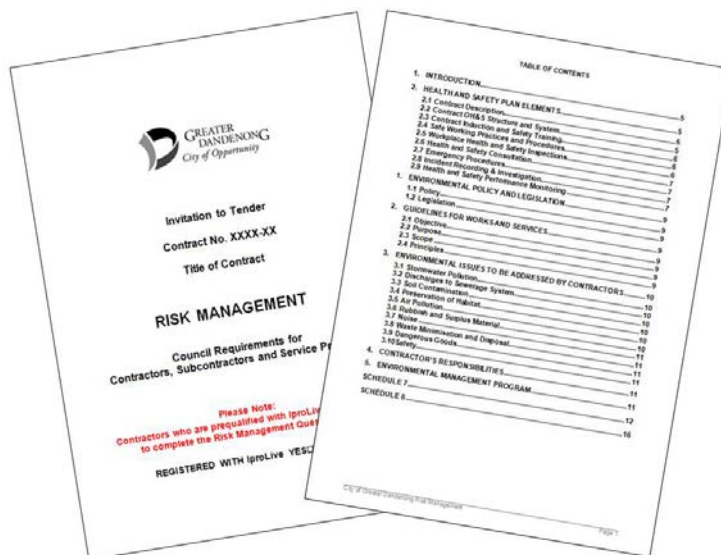
To manage the risk of land use pollution across Council's operations, its contractors and subcontractors are required to have a compliant Environmental Management System (EMS) and /or an Environmental Management Plan (EMP) in place for any works conducted in the municipality.

In 2017-18, Council:

- went out to tender for 93 projects – with requirements for tenderers to demonstrate their environmental management practices where appropriate.
- conducted audits on 20 of these tendered projects as part of its procurement process. The audits included consideration of environmental management practices.

All contractors and sub-contractors engaged via Council's tender process met its EMS / EMP requirements.

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



### Current Actions for 2018-19

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).

<b>2020 TARGET</b>
<b>Monitor and Report</b>
<b>BASELINE</b>
<b>Existing Program</b>
<b>PERFORMANCE</b>
<b>Existing Programs</b>
<b>ON TARGET</b>

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.

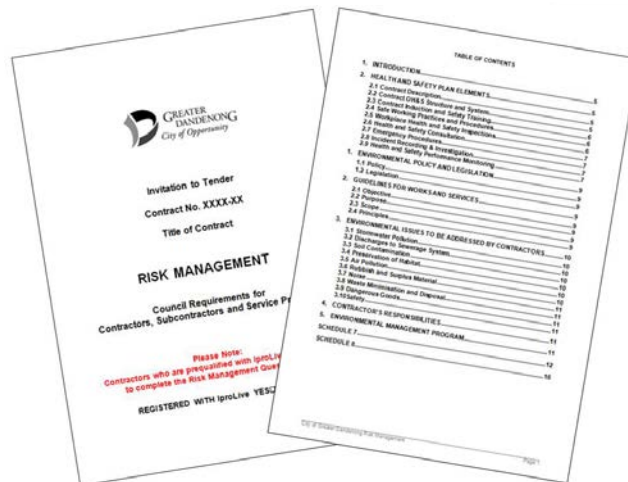
To manage the risk of water pollution across Council's operations, its contractors and subcontractors are required to have a compliant Environmental Management System (EMS) and /or an Environmental Management Plan (EMP) in place for any works conducted in the municipality.

In 2017-18, Council:

- went out to tender for 93 projects – with requirements for tenderers to demonstrate their environmental management practices where appropriate.
- conducted audits on 20 of these tendered projects as part of its procurement process. The audits included consideration of environmental management practices.

All contractors and sub-contractors engaged via Council's tender process met its EMS / EMP requirements.

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



Current Actions for 2018-19	Status
Requirement for tenderers to demonstrate appropriate environmental management systems and or plans as part of the tender process where appropriate. <ul style="list-style-type: none"> <li><b>Responsibility – People and Procurement</b></li> </ul>	Ongoing
Council's Contract Superintendents to ensure contractors meet their obligations as identified in Council's Requirements for Contractors, Subcontractors and Service Providers. <ul style="list-style-type: none"> <li><b>Responsibility – Responsible Contract Superintendents</b></li> </ul>	Ongoing
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. <ul style="list-style-type: none"> <li><b>Responsibility – Regulatory Services + Planning &amp; Design</b></li> </ul>	In Progress



## Corporate Objective: EP – 1.3 Air Pollution

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

<b>2020 TARGET</b>
<b>Monitor and Report</b>
<b>BASELINE</b>
<b>Existing Program</b>
<b>PERFORMANCE</b>
<b>Existing Programs</b>
<b>ON TARGET</b>

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.

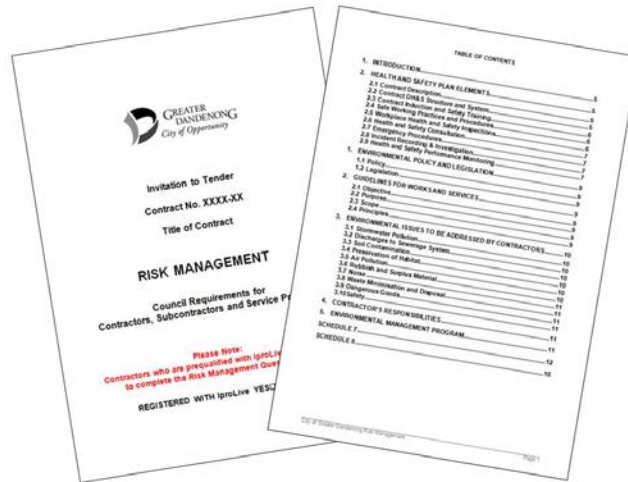
To manage the risk of air pollution across Council's operations, its contractors and subcontractors are required to have a compliant Environmental Management System (EMS) and /or an Environmental Management Plan (EMP) in place for any works conducted in the municipality.

In 2017-18, Council:

- went out to tender for 93 projects – with requirements for tenderers to demonstrate their environmental management practices where appropriate.
- conducted audits on 20 of these tendered projects as part of its procurement process. The audits included consideration of environmental management practices.

All contractors and sub-contractors engaged via Council's tender process met its EMS / EMP requirements.

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



Current Actions for 2018-19	Status
Requirement for tenderers to demonstrate appropriate environmental management systems and or plans as part of the tender process where appropriate. <ul style="list-style-type: none"> <li><b>Ongoing   Responsibility – People and Procurement</b></li> </ul>	<b>Ongoing</b>
Council's Contract Superintendents to ensure contractors meet their obligations as identified in Council's Requirements for Contractors, Subcontractors and Service Providers. <ul style="list-style-type: none"> <li><b>Ongoing   Responsibility – Responsible Contract Superintendents</b></li> </ul>	<b>Ongoing</b>



## 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).

<b>2020 TARGET</b>
<b>Monitor and Report</b>
<b>BASELINE</b>
<b>Establish Baseline</b>
<b>PERFORMANCE</b>
<b>Limited Data</b>
<b>OFF TARGET</b>

**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 for 2017-18

The City of Greater Dandenong is one of 13 Victorian councils taking 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 for 2018-19

	<b>Status</b>
Implement changes to Council's customer request reporting system (MERIT) to improve monitoring and reporting. <ul style="list-style-type: none"> <li><b>Responsibility – Regulatory Services</b></li> </ul>	<b>In Progress</b>
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"> <li><b>Responsibility – Regulatory Services</b></li> </ul>	<b>Ongoing</b>
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"> <li><b>Responsibility – Regulatory Services</b></li> </ul>	<b>Ongoing</b>
Land use approvals process to manage impacts from material recyclers, waste transferrers and organic waste processing plants. <ul style="list-style-type: none"> <li><b>Responsibility – Regulatory Services + Planning &amp; Design</b></li> </ul>	<b>Ongoing</b>
Participate in the EPA's Officers for the Protection of the Local Environment pilot program. <ul style="list-style-type: none"> <li><b>Responsibility – Regulatory Services</b></li> </ul>	<b>In Progress</b>
Complete annual audit of large commercial waste recyclers. <ul style="list-style-type: none"> <li><b>Responsibility – Regulatory Services</b></li> </ul>	<b>Ongoing</b>

### Completed Actions for 2017-18

Review of customer request reporting system (MERIT) to improve monitoring and reporting.	✓
Completed annual industrial area audits.	✓



## Community Objective: EP – 2.2 Water Pollution

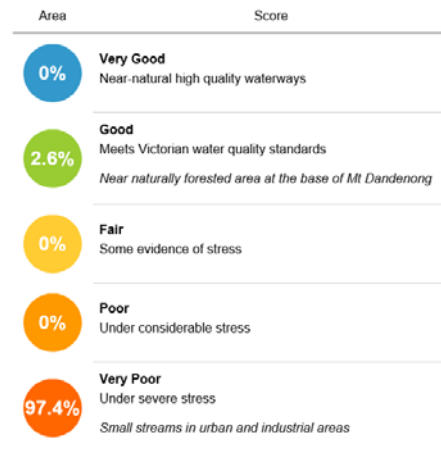
Work with the community to improve stormwater quality and waterway health across the city.

<b>2020 TARGET</b>
<b>Monitor and Report</b>
<b>BASELINE</b>
<b>93% of Catchment rated Very Poor (2012-13)</b>
<b>PERFORMANCE</b>
<b>97.4% of Catchment rated Very Poor   (Whole of Dandenong Creek)(2016-17)</b>
<b>OFF TARGET</b>

### Figure WS – 2.2 Dandenong Creek Catchment - Report Card for 2016-17 - 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.



\*Source: [https://yarraandbay.vic.gov.au/report-card/report-card-2017/port-philip/dandenong#top\\_of\\_report](https://yarraandbay.vic.gov.au/report-card/report-card-2017/port-philip/dandenong#top_of_report) As viewed 6 September 2018

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 .

### Highlights for 2017-18

Increasing recognition by key stakeholders of Council's Stormwater source pollution monitoring and engagement project within industrial areas.

### Current Actions for 2018-19

	<b>Status</b>
Stormwater source pollution monitoring and engagement project within industrial areas. ▪ <b>Responsibility – Regulatory Services + Planning &amp; Design</b>	<b>In Progress</b>
Implement changes to Council's customer request reporting system (MERIT) to improve monitoring and reporting. ▪ <b>Responsibility – Regulatory Services</b>	<b>In Progress</b>
Engage local businesses to improve site management practices to reduce contaminated liquid discharges from entering the local waterways. ▪ <b>Responsibility – Regulatory Services</b>	<b>Ongoing</b>
Work with participants through three Integrated Water Management Forums to address stormwater quality within the Dandenong Creek Catchment. ▪ <b>Responsibility – Infrastructure Services &amp; Planning + Planning &amp; Design</b>	<b>In Progress</b>
Participate in the EPA's Officers for the Protection of the Local Environment pilot program. ▪ <b>Responsibility – Regulatory Services</b>	<b>In Progress</b>

### Completed Actions for 2017-18

Initial stages of source pollution monitoring and engagement project in industrial areas funded through Melbourne Water.	✓
Participation in Melbourne Water's stakeholder forums for the Healthy Waterway Strategy update.	✓



## Community Objective: EP – 2.3 Air Pollution

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

<b>2020 TARGET</b>
<b>Monitor and Report</b>
<b>BASELINE</b>
<b>Air Quality Index (EPA) Dandenong – Fair (2015)</b>
<b>PERFORMANCE</b>
<b>Air Quality Index (EPA) Dandenong – Fair (2015)</b>
<b>OFF TARGET</b>

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 for 2017-18

Engagement with key stakeholders to address ongoing significant odour emissions impacting residential and commercial locations, including Springvale, Dandenong and Dandenong North.

### Current Actions for 2018-19

	<b>Status</b>
Implement changes to Council's customer request reporting system (MERIT) to improve monitoring and reporting.	<b>In Progress</b>
<ul style="list-style-type: none"> <li>▪ <b>Responsibility – Regulatory Services</b></li> </ul>	
Ongoing program within identified priority industrial areas across the municipality to audit and engage with businesses to reduce potential environmental issues.	<b>Ongoing</b>
<ul style="list-style-type: none"> <li>▪ <b>Responsibility – Regulatory Services</b></li> </ul>	
Engage businesses to improve site management practices and reduce odour and windborne particulates entering the atmosphere.	<b>Ongoing</b>
<ul style="list-style-type: none"> <li>▪ <b>Responsibility – Regulatory Services</b></li> </ul>	
Work with EPA to monitor post closure management of the Clarke Road Landfill to reduce impacts on the amenity of local residents.	<b>Ongoing</b>
<ul style="list-style-type: none"> <li>▪ <b>Responsibility – Regulatory Services</b></li> </ul>	
Participate in the EPA's Officers for the Protection of the Local Environment pilot program.	<b>In Progress</b>
<ul style="list-style-type: none"> <li>▪ <b>Responsibility – Regulatory Services</b></li> </ul>	
Ongoing engagement with developers focussing on construction noise emissions.	<b>Ongoing</b>
<ul style="list-style-type: none"> <li>▪ <b>Responsibility – Regulatory Services</b></li> </ul>	

### Completed Actions for 2017-18

Engagement with key stakeholders to address ongoing significant odour emissions impacting residential and commercial locations.	✓
Engagement with key stakeholders to reduce pollutants entering stormwater runoff at its source.	✓



## Community Objective: EP – 2.4 Planning

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

<b>2020 TARGET</b>
<b>50% of Development Applications</b>
<b>BASELINE</b>
<b>25% of Development Applications (2013-14)</b>
<b>PERFORMANCE</b>
<b>22% of Development Applications (2017-18)</b>
<b>OFF TARGET</b>

Figure WS – 2.4a SDAPP Trigger Levels

LARGE	MEDIUM	SMALL
<b>Residential</b> Development of 15 or more dwellings <b>Non-residential</b> 1. Development of a building with a gross floor area of more than 2499m <sup>2</sup> 2. Alterations and additions greater than 2499m <sup>2</sup> .	<b>Residential</b> 10-14 new dwellings <b>Non-residential</b> 1. Development of a building with a gross floor area between 1999m <sup>2</sup> and 2498m <sup>2</sup> 2. Alterations and additions between 1999m <sup>2</sup> and 2498m <sup>2</sup> .	<b>All</b> All planning applications other than described in the categories Medium and Large.

### 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 2017-18 Council assessed the Environmentally Sustainable Design (ESD) credentials of 77 development applications. This equals 22% of all new development applications and 66% 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 enters 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 for 2017-18

Launch of the Built Environment Sustainability Scorecard (BESS).

### Current Actions for 2018-19

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

- 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

In Progress

Ongoing

Ongoing

### Completed Actions for 2017-18

Customisation of SDAPP Fact Sheets for Greater Dandenong.





## Community Objective: EP – 2.5 Awareness

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

<b>2020 TARGET</b>
<b>Monitor and Report</b>
<b>BASELINE</b>
<b>Existing Programs</b>
<b>PERFORMANCE</b>
<b>Existing Programs</b>
<b>ON TARGET</b>

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**



Council’s website & publications

Monitoring sources of stormwater pollution

Engaging with businesses to improve site management practices

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

### Highlights for 2017-18

Winner of the **Overall Sustainable Council** award for the Keep Australia Beautiful 2017 Sustainable Cities Awards.

### Current Actions for 2017-18

	<b>Status</b>
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.	<b>In Progress</b>
<ul style="list-style-type: none"> <li>▪ <b>Responsibility – Regulatory Services + Planning &amp; Design</b></li> </ul>	
Ongoing program within identified priority industrial areas across the municipality to audit and engage with businesses to reduce potential environmental harm.	<b>Ongoing</b>
<ul style="list-style-type: none"> <li>▪ <b>Ongoing   Responsibility – Regulatory Services</b></li> </ul>	
Use planning assessment tools to better inform applicants of their environmental responsibilities associated with planning outcomes.	<b>Ongoing</b>
<ul style="list-style-type: none"> <li>▪ <b>Ongoing   Responsibility – Planning &amp; Design</b></li> </ul>	
Ongoing delivery of ‘Dob in a Dumper’ and ‘It’s in your Hands’ illegal dumping branding.	<b>Ongoing</b>
<ul style="list-style-type: none"> <li>▪ <b>Responsibility – Infra. Services &amp; Planning + Regulatory Services</b></li> </ul>	
Use Council’s website, publications and social media to promote awareness and responsibility.	<b>Ongoing</b>
<ul style="list-style-type: none"> <li>▪ <b>Ongoing   Responsibility – Communication &amp; Customer Services</b></li> </ul>	
Work with partner stakeholders to collaborate on the production and use of education / engagement material to ensure efficient use of resources.	<b>In Progress</b>
<ul style="list-style-type: none"> <li>▪ <b>Responsibility – Regulatory Services</b></li> </ul>	
Implementation of EPA’s Protection of the Local Environment pilot program’s officer, with community awareness to be a focus area.	<b>In Progress</b>
<ul style="list-style-type: none"> <li>▪ <b>Responsibility – Regulatory Services</b></li> </ul>	

### Completed Actions for 2017-18

Running activities at 2017-18 community events such as at the Dandenong Show and Sustainability Festival.	✓
Delivery of Waterway Litter campaign with funding support through Melbourne Water.	✓





# 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	Maintain Sustainable Food Options	
LF – 1.2 Food Waste	12.8% of Total Office Waste Diverted from Landfill	
LF – 1.3 Awareness	141 Staff Surveyed (16%)	

## Community Objectives

## Performance Indicator

LF – 2.1 Urban Agriculture	68% of Residential Properties + Greater Ability	
LF – 2.2 Access	2014 Healthy Food Report	
LF – 2.3 Affordability	Cost of Healthy Food Basket 28% of Income	
LF – 2.4 Green Wedge	1,388 Ha + 43 Businesses	
LF – 2.5 Planning	22% of Development Applications	
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

Maintain 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 its 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.

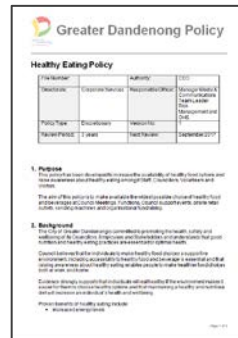
The adoption of a sustainable food procurement policy will enable Council to move from a project by project approach, to an organisational framework for understanding and making change towards a more sustainable food system.

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

### Procurement Policy



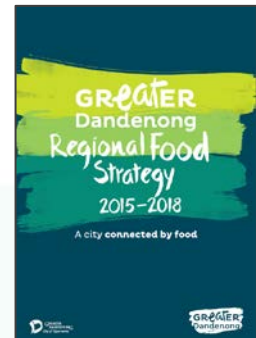
### Healthy Eating Policy



### Healthy Catering Guide



### Regional Food Strategy



## Highlights 2017-18

Inclusion of sustainable and healthy food options in Council's Procurement Policy.

## Current Actions 2018-19

Ongoing implementation of Council's Procurement Policy.

- **Responsibility – Corporate Services**

Status

Ongoing

Ongoing promotion of Council's Healthy Eating Policy.

- **Responsibility – Corporate Services**

Ongoing

Investigate establishment of partnership with 'Healthy Eating Enterprise or Hub'.

- **Responsibility – Corporate Services**

Ongoing

## Completed Actions 2017-18

Update of Council's Procurement Policy.

✓

Implementation of the Healthy Catering Guide.

✓



## Corporate Objective: LF – 1.2 Food Waste

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

<b>2020 TARGET</b>
<b>Monitor and Report</b>
<b>BASELINE</b>
<b>3.5% of Council Office Waste (2014)</b>
<b>PERFORMANCE</b>
<b>12.8% of Council Office Waste (2017)</b> *2018 audit scheduled for Sep 2018
<b>ON TRACK</b>

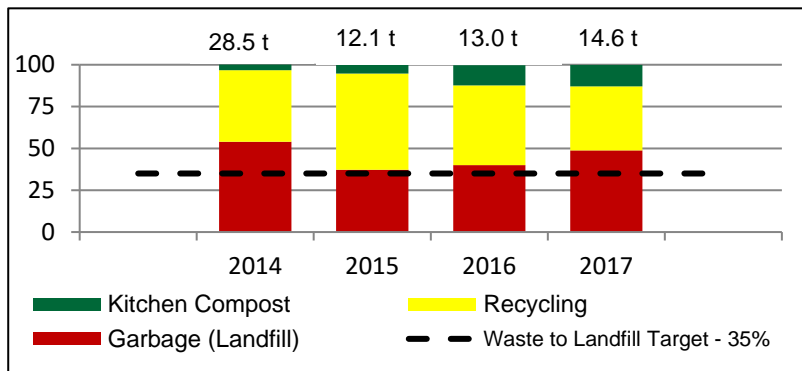
Council's corporate waste audits for 2018 are scheduled for September 2018; therefore, the latest data is currently unavailable.

Corporate waste audits conducted in June 2017 at the Dandenong Civic Centre and Operations Centre (see Figure LF-1.2a) indicate:

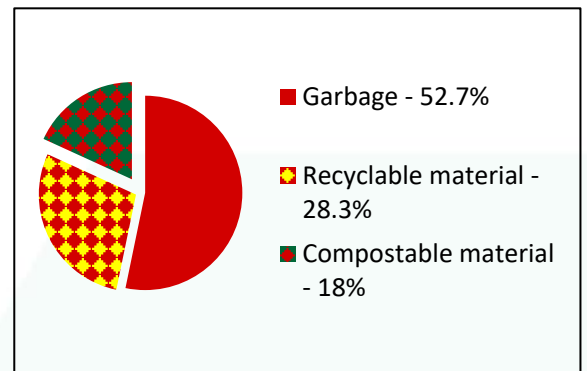
- Council facilities generate an estimated 14.59 tonnes or 377m3 of waste per year
  - 52.7% (by mass) is sent to landfill
  - 28.3% (by mass) is recycled
  - 18.0% (by mass) is composted
- On average each staff member generates 34.5kg or 893L

Council has reduced the overall weight of corporate waste generated from 28.5 tonnes in 2014 down to 14.6 tonnes in 2017. Over the same period, there has been an increase in the overall weight of waste composted from 0.9 tonnes in 2014 up to 1.8 tonnes in 2017.

**Figure LF – 1.2a Council office waste audit – overall results (2017)**



**Figure LF – 1.2b Composition of waste placed in Council office garbage bins (2017)**



### Highlight for 2017-18

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

### Current Actions for 2018-19

Ongoing collection of food scrap waste from Council offices.

- **Responsibility – Infrastructure Services**

Investigate ways to collect data on food waste diverted from being sent landfill.

- **Responsibility – Infrastructure Services**

### % Completed

Ongoing

Ongoing

### Completed Actions for 2017-18

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.

<b>2020 TARGET</b>
<b>Increase Staff Awareness</b>
<b>BASELINE (2016)</b>
<b>141 Staff Surveyed (16%)</b>
<b>PERFORMANCE</b>
<b>Implement Awareness Program</b>
<b>ON TARGET</b>

Results from the Health and Wellbeing Survey

- 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)

Since the 2016 Health and Wellbeing Survey Council has responded by putting the following measures in place:

1. Established the FLARE Reference Group
2. Developed an Annual Calendar of Events

Figure LF – 1.3 Broader results from the FLARE Health and Wellbeing Survey



### Highlights for 2017-18

Council implemented its Healthy Eating Policy in 2014.

Council continues to support staff through the FLARE (Flourishing Lively Active Restored Employees) program

### Current Actions for 2018-19

	Status
Ongoing implementation of Council's Healthy Eating Policy.	Ongoing
▪ Ongoing   Responsibility – Communications & Customer service	
Be Your Best – health and wellbeing program – nutrition   Plus one on one wellness coaching	Ongoing
▪ Ongoing   Responsibility – Corporate Service	
FLARE (Flourishing Lively Active Restored Employees) Program	Ongoing
▪ Ongoing   Responsibility – Corporate Service	
Promote Council's Corporate Healthy Catering Guide.	Ongoing
▪ Ongoing   Responsibility – Community Wellbeing	

### Completed Actions for 2017-18

Healthy Eating information placed on Council's internal website.	✓
Regular guest speakers who focus on health, nutrition and wellbeing for staff	✓



## 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

Establish Baseline

### PERFORMANCE

68% of residents have good ability

### ON TARGET

As the traditional 'quarter acre block' with large gardens are increasingly replaced through the development of multiple residential properties 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.

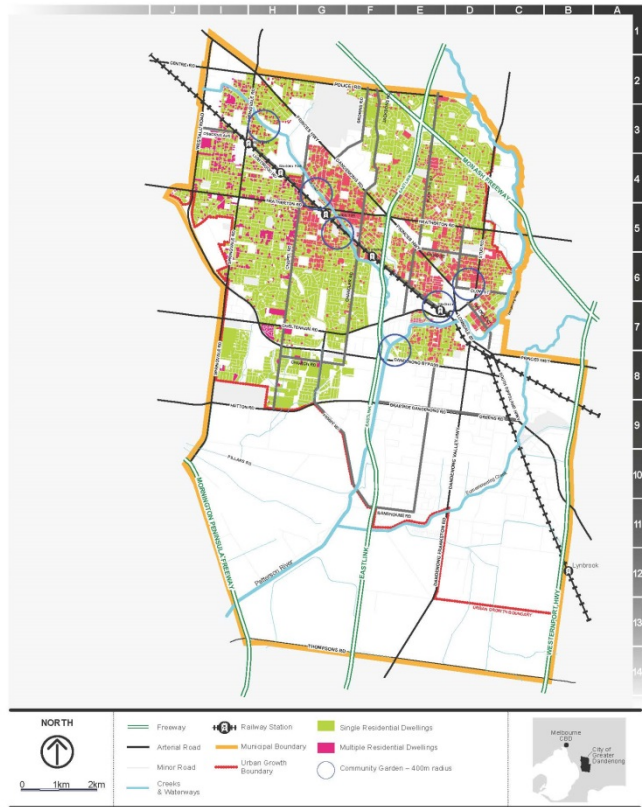
**32%  
Limited  
Ability**

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

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

Figure LF – 2.1 Residents ability to grow food.

URBAN AGRICULTURE (LF - 2.1)



### Highlights – 2017/18

Edible Food Gardens developed in Dandenong Park by Council.

Establishment of a community garden at Athol Road Primary School fund by the Community Grants Program.

### Current Actions – 2018/19

Ongoing trial of edible gardens displays to promote ability for community to grow own food.

- **Responsibility – Community Services + Infrastructure Services & Planning**

**Status**

**Ongoing**

Work with Development Victoria and TRY Group to develop a community garden in Halpin Way.

- **Responsibility – Economic Development Unit**

**In Progress**

Consider potential opportunities to establish new community gardens.

- **Responsibility – Community Services + Economic Development Unit**

**Ongoing**

Establishment community gardens within selected Council owned early learning centres.

- **Responsibility – Community Services**

**In Progress**

### Completed Actions – 2017/18

The Community Grant Program funded the establishment of several community gardens.

✓



## 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

Implement Healthy Bites

### ON TARGET

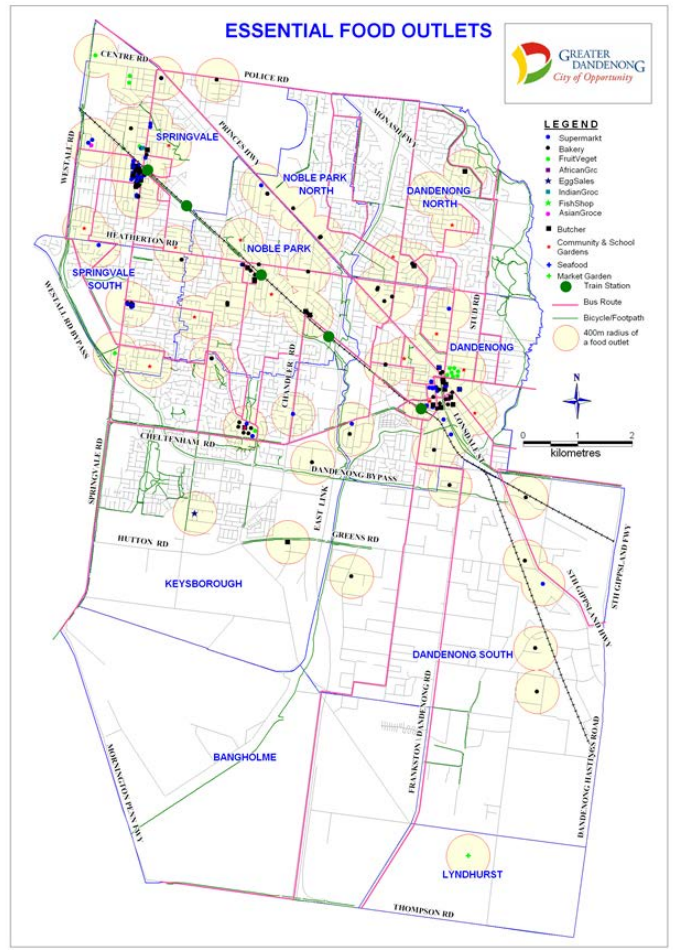
The 2014 Healthy Food Report\* for the City of Greater Dandenong shows that increased geographic availability of food improves an individual's intake of fruit and vegetables. Residents who do not live near a supermarket are up to 46% less likely to have a healthy diet.

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.

### Highlights 2017-18

Development of the South East 'Food for Thought' network in collaboration with Monash Health.

Council's SnowFest has 3 Healthy Bites accredited vendors.

17 local food outlets throughout Greater Dandenong participating in the Healthy Bites Program.

### Current Actions 2018-19

Supporting and promotion of Healthy Bites through Council Events.

- Responsibility – Community Arts + Culture & Libraries

Supporting the South East 'Food for Thought' Network

- Responsibility – Community Wellbeing + Community Advocacy

### Status

Ongoing

Ongoing

### Completed Actions 2017-18

Development of South East 'Food for Thought' Network to increase healthy food options.

✓

Launch of Healthy Bites program in partnership with Monash Health.

✓



## Community Objective: LF – 2.3 Affordability

Work with stakeholders to increase the affordability of fresh food within the municipality.

### 2020 TARGET

Increase Affordability of Fresh Food

### BASELINE

Cost of Healthy Food Basket -  
30% of Income for Typical Low  
Income Family (2013)

### PERFORMANCE

Cost of Healthy Food Basket -  
28% of Income for Typical Low  
Income Family (2016)

### ON TARGET



A survey\* on average cost of a healthy food basket purchased within Greater Dandenong indicates that, for a low income typical family, the average cost has reduced slightly from 30% of their income in 2013\* to 28% in 2016 - this 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<sup>^</sup>, 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 (2015-16 ABS Data<sup>^</sup>)**

Low Income Households -  
\$505 per week income



Expenditure on food -  
\$144 per week

Average Household Income  
- \$1,441 per week income



Expenditure on food -  
Average \$242 per week

Highest Income Households -  
\$3,079 per week income



Expenditure on food -  
Average \$339 per week

<sup>^</sup>Source: ABS Australian Household Expenditure Survey, 2015-16



## 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**

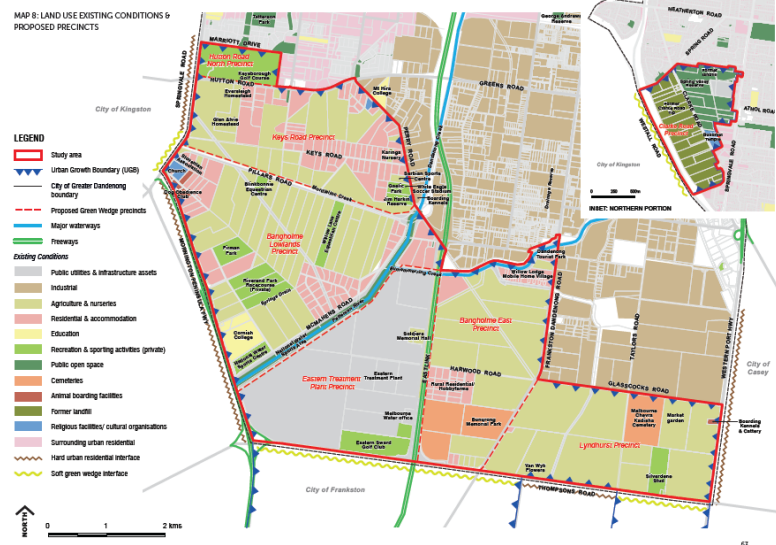
**1,037 Ha + 32 Businesses  
(2011)**

**Performance**

**1388 Ha + 43 Businesses  
(2018)**

**ON TARGET**

**Figure LF-2.4 Land use and proposed precincts in Green Wedge**



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 2018, approximately 1388ha of land, or 37% of the Green Wedge, is being used for agricultural purposes by approximately 43 businesses. (This is up from 28% of the Green Wedge by 32 businesses in 2011).

This mainly comprised of livestock production and other mixed farming and grazing, including:

- Commercial flower and plant growing - 1 business 43ha
- Crop production – 2 businesses 80ha
- Horse stud – 8 businesses – 200ha
- Livestock production – beef cattle – 15 businesses – 579ha
- Market garden – vegetables 4 businesses – 106ha
- Mixed farming and grazing – 9 businesses - 335ha
- Poultry (egg) production – 2 businesses – 27ha
- Vineyard – 1 business 16ha
- Yabby farming – 1 business 2ha

### Highlights 2017-18

Update and reporting on Green Wedge Management Plan and Action Plan (Revised 2017)

### Current Actions 2018-19

	<b>Status</b>
Continue to support Greater Dandenong Regional Food Strategy initiatives in the Green Wedge.	<b>Ongoing</b>
<ul style="list-style-type: none"> <li>▪ <b>Responsibility – Economic Development + Planning and Design</b></li> </ul>	
Continue to support the expansion and diversification of agricultural activity.	<b>Ongoing</b>
<ul style="list-style-type: none"> <li>▪ <b>Responsibility – Economic Development + Planning and Design</b></li> </ul>	
Establishment of 2ha Market Garden in Bangholme in partnership with business.	<b>Ongoing</b>
<ul style="list-style-type: none"> <li>▪ <b>Responsibility – Economic Development</b></li> </ul>	
In partnership, develop a feasibility study on establishment of Green Wedge Demo Farm.	<b>Ongoing</b>
<ul style="list-style-type: none"> <li>▪ <b>Responsibility – Economic Development</b></li> </ul>	





## Community Objective: LF – 2.5 Planning

New development within the city to incorporate best practice food production and access requirements.

### 2020 TARGET

50% of Development Applications

### BASELINE

25% of Development Applications (2103-14)

### PERFORMANCE

22% of Development Applications (2017-18)

### OFF TARGET

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.

In 2017/18 Council assessed the Environmentally Sustainable Design (ESD) credentials of 77 new development applications. This equals 22% of all new relevant development applications and 66% of development applications that meet the current SDAPP trigger levels set by Council.

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

- Urban Ecology and Innovation.

Figure LF – 2.5b Urban Ecology and Innovation SDAPP Fact Sheets



### Highlights 2017-18

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

### Current Actions 2018-19

Assessment of food and urban agriculture as part of development planning applications.

- 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 2017-18

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.

<b>2020 TARGET</b>
<b>Monitor and Report</b>
<b>BASELINE</b>
<b>Existing Programs</b>
<b>PERFORMANCE</b>
<b>Implement New Programs</b>
<b>ON TARGET</b>

In 2017-18, Council undertook a range of activities to promote healthy diets and local sustainable food options for the broader community. Key initiatives included:

- Healthy Bites rolled out at location including the Dandenong Market and Parkmore Shopping Centre, plus an event at the Dandenong Civic Centre
- Trial of edible food gardens in Council's parks and open spaces by the Parks & Gardens Team.
- 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 2017-18

- Monash Health Community (Health Promotion) working on health literacy and improving their services and resources.
- 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.
- 17 local food outlets participating in the Healthy Bites program (to increase the availability of healthy food options)

### Current Actions 2018-19

	Status
Ongoing promotion with Monash Health Community to improve health literacy and services.	<b>Ongoing</b>
▪ <b>Responsibility – Community Wellbeing + Community Advocacy Unit</b>	
Ongoing promotion of local food through Council's website and publications, such as The City.	<b>Ongoing</b>
▪ <b>Responsibility – Media &amp; Communication + Economic Development Unit</b>	
Ongoing trial of edible gardens displays to promote ability for community to grow own food.	<b>Ongoing</b>
▪ <b>Responsibility – Infrastructure Services</b>	
Consider potential opportunities to establish new community gardens.	<b>Ongoing</b>
▪ <b>Responsibility – Economic Development Unit</b>	
Work with Development Victoria and Community Group to develop garden in Halpin Way.	<b>In Progress</b>
▪ <b>Responsibility – Economic Development Unit</b>	

### Completed Actions 2017-18

Implementation Healthy Bites, a healthy dining program throughout the City of Greater Dandenong.	✓
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	
CC – 1.2 Social Responsibility	Adopted Procurement Policy	

## Community Objectives

## Performance Indicator

CC – 2.1 Health and Wellbeing	Profile of Health and Wellbeing	
CC – 2.2 Culture and Diversity	64% of residents born overseas   over 160 countries	
CC – 2.3 Crime and Safety	Perception of Safety 47% of Population	
CC – 2.4 Climate Change	Existing Policies and Strategies	
CC – 2.5 Affordability	Ave. income \$475 per week Ave. rent \$370 per week (3-bed)	
CC – 2.6 Awareness	Implement Existing Programs	





## Corporate Objective: CC – 1.1 Organisational Culture

Establish internal programs that help to create a culture of sustainability within Council.

<b>2020 TARGET</b>
<b>Monitor and Report</b>
<b>BASELINE</b>
<b>140 Employees Responded to Survey (2016)</b>
<b>PERFORMANCE</b>
<b>140 Employees Responded to Survey (2016)</b>
<b>ON TARGET</b>

In 2016, 140 employees of City of Greater Dandenong (CGD) completed the Sustainability Culture Indicator (SCI) survey. A follow up survey will be completed in 2019.

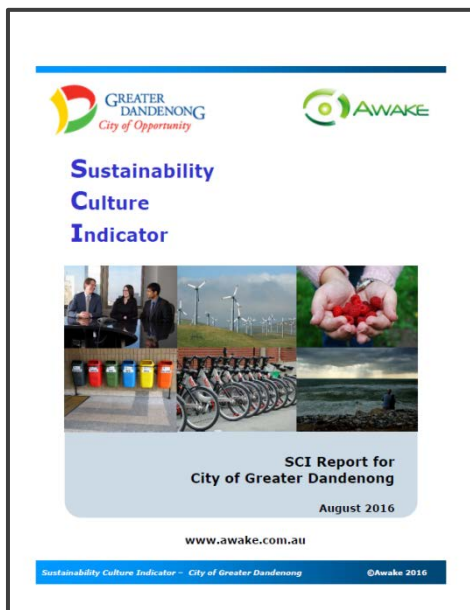
### Purpose of Survey

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 for 2017-18

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 for 2018-19

	<b>Status</b>
Deliver staff awareness raising events and activities – linked to Sustainability Festival and key projects such as the development of the Climate Change Strategy.	<b>In Progress</b>
<ul style="list-style-type: none"> <li>▪ <b>Responsibility – Planning &amp; Design + People &amp; Procurement Services</b></li> </ul>	
Increase awareness of Council's Sustainability vision and framework as part of the corporate induction program for all new staff.	<b>In Progress</b>
<ul style="list-style-type: none"> <li>▪ <b>Responsibility – Planning &amp; Design + People &amp; Procurement Services</b></li> </ul>	
Hold a minimum of two sustainability-focussed forums for Council staff to help increase awareness and foster a culture of sustainability within Council.	<b>In Progress</b>
<ul style="list-style-type: none"> <li>▪ <b>Responsibility – Planning &amp; Design + People &amp; Procurement Services</b></li> </ul>	
Conduct SCI survey to update the results to determine progress made since 2015/16	<b>In Progress</b>
<ul style="list-style-type: none"> <li>▪ <b>Responsibility – Planning &amp; Design + People &amp; Procurement Services</b></li> </ul>	



## Corporate Objective: CC – 1.2 Social Responsibility

Investigate how to incorporate Corporate Social Responsibility Principles into Annual Sustainability Report.

<b>2020 TARGET</b>
<b>Increase Corporate Social Responsibility</b>
<b>BASELINE</b>
<b>Establish Baseline</b>
<b>PERFORMANCE</b>
<b>Procurement Policy Adopted 2017/18</b>
<b>ON TARGET</b>

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

Greater Dandenong Policy			
Procurement Policy			
File Number	2017/18	Subject	Council
Department	Economic Services	Responsible Officer	Manager Procurement and Procurement Services
File Date	22/02/2018	Version	001
File Name	Procurement Policy	Last Modified	21 May 2018
Created	22 Feb 2018	Created	21 May 2018
Revised Date	12 Jun 2018	Revised Date	24 Jun 2018

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 for 2017-18

Procurement Policy formally adopted by Council in 2017/18 incorporated CSR and Social Procurement criteria. The Council's Staff Giving Program has donated \$172,356 to eight local charities since its inception in 2008-09

### Current Actions for 2018-19

	Status
Ongoing implementation of Council's Procurement Policy.	<b>Ongoing</b>
▪ <b>Responsibility – People &amp; Procurement Services</b>	
Ongoing implementation of Council's Staff Giving Program.	<b>Ongoing</b>
▪ <b>Responsibility – People &amp; Procurement Services</b>	
Continuation of Council's existing CSR programs with partners such as Gateway Industries.	<b>Ongoing</b>
▪ <b>Responsibility – Engineering Services</b>	
Investigate opportunities to expand Council's corporate social responsibility programs.	<b>Ongoing</b>
▪ <b>Responsibility – Engineering Services</b>	
Deliver the Step Into Program to support female staff move into leadership role	
▪ <b>Responsibility – Corporate Service + Community Services</b>	
Continue involvement in the Stepping Into Program with the Australian Disability Network	<b>Ongoing</b>
▪ <b>Ongoing   Responsibility – Corporate Services</b>	

### Completed Actions for 2017-18

Adoption of Procurement Policy that encourages social procurement. ✓



## Community Objective: CC – 2.1 Health and Wellbeing

Use Social Model of Health as framework to create an environment that enhances health and wellbeing

<b>2020 TARGET</b>
<b>Improve Health and Wellbeing</b>
<b>BASELINE</b>
<b>Profile of Health and Wellbeing (2016)</b>
<b>PERFORMANCE</b>
<b>Profile of Health and Wellbeing (2018)</b>
<b>ON TARGET</b>

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.

**Figure CC – 2.1 Greater Dandenong Health and Wellbeing Indicators**

### LIFE EXPECTANCY\*



**CGD Average: Female 85 Years  
Male 81 Years**

**Victorian Average:  
Female 85 | Male 80**

\*Source: Greater Dandenong Health Profile 2018

### SELF-REPORTED HEALTH\*



**CGD: 9% Men | 20% Women  
Reported = Obese**

**Victorian Average:  
17% Men | 17% Women**

\*Source: Greater Dandenong Health Profile 2018

### SUBJECTIVE WELLBEING\*



**CGD: 75 out of 100  
Subjective Wellbeing**

**Victorian Average:  
77 out of 100**

\*Source: Greater Dandenong Health Profile 2018

### Highlights for 2017-18

City of Greater Dandenong became a Child Friendly City in 2015.

Update of the Health and Wellbeing Profile for the City of Greater Dandenong as of 2018.

### Current Actions for 2018-19

	<b>Status</b>
Review of Greater Dandenong Electronic Gambling Policy and membership of Gambling Alliance	<b>In Progress</b>
▪ <b>Responsibility – Community Wellbeing</b>	
Implementation of the Community Wellbeing Plan.	<b>Ongoing</b>
▪ <b>Responsibility – Community Wellbeing</b>	
Participation in the enliven Healthy Futures Tackling Obesity Program	<b>Ongoing</b>
▪ <b>Responsibility – Community Wellbeing</b>	
Collaboration with Monash Health in Food Nutrition Program	<b>Ongoing</b>
▪ <b>Responsibility – Community Wellbeing</b>	

### Completed Actions for 2017-18

Review and update of the City of Greater Dandenong Alcohol Policy.	✓
Provide opportunities for young, old and disabled people to participate in health and wellbeing activities – examples include 'Think Positive' (Mental Health Week) and 'Intergreat' (All Abilities Event)	✓
Commence development of Sport and Recreation Women's Action Plan	✓



## 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.

<b>2020 TARGET</b>
<b>Support Culture and Diversity</b>
<b>BASELINE</b>
<b>CGD Health and Wellbeing Profile</b>
<b>PERFORMANCE (2018)</b>
<b>64% of residents born overseas   over 160 countries</b>
<b>ON TARGET</b>

Greater Dandenong is the most culturally diverse municipality in Australia, with residents from 157 nations.

In the 25 years to 2016, the proportion of residents born overseas rose from 46% to 64%\*\* . 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\* .

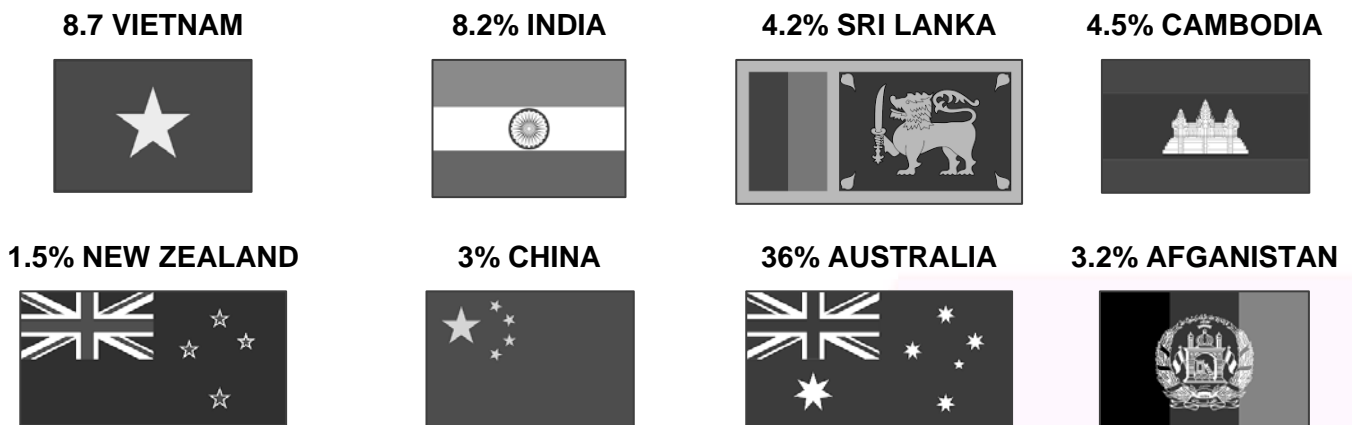
Other key facts:

- \*\*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, 2018

\*\*Source: ABS Census Data 2016

Figure CC – 2.2 Example Resident Countries of Birth in Greater Dandenong\*



### Highlights 2017-18

Development of the Greater Dandenong People Seeking Asylum and Refugees Action Plan 2018-2021  
Series of events held as part of NAIDOC and Reconciliation Weeks.

### Current Actions 2018-19

	<b>Status</b>
Implementation of People Seeking Asylum and Refugees Action Plan 2018-21 Plan – Year One. <ul style="list-style-type: none"> <li>▪ <b>Responsibility – Community Wellbeing</b></li> </ul>	<b>In Progress</b>
Facilitate Multicultural Advisory Committee and implement actions. <ul style="list-style-type: none"> <li>▪ <b>Responsibility – Community Wellbeing</b></li> </ul>	<b>In Progress</b>
Endorsement and Implementation Reconciliation Action Plan 2017-19. <ul style="list-style-type: none"> <li>▪ <b>Responsibility – Community Wellbeing</b></li> </ul>	<b>In Progress</b>
Implementation of Community Grants Program to support activities that benefit the community. <ul style="list-style-type: none"> <li>▪ <b>Responsibility – Community Wellbeing</b></li> </ul>	<b>Ongoing</b>
Facilitate Asylum Seeker and Refugee Advisory Committee. <ul style="list-style-type: none"> <li>▪ <b>Responsibility – Community Wellbeing</b></li> </ul>	<b>In Progress</b>

### Completed Actions

Hosted the 2018 Victorian Local Government Multiculturalism and Inclusion Network Conference 'Civic Participation' in partnership with the Municipal Association of Victoria.	✓
Asylum Seeker and Refugee Communities Action Plan 2018-21 endorsed by Council – April 2018.	✓



## 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.

<b>2020 TARGET</b>
<b>Improve Public Safety</b>
<b>BASELINE</b>
<b>Perception of Safety 40% of Population</b>
<b>PERFORMANCE</b>
<b>Perception of Safety 47% of Population</b>
<b>ON TARGET</b>

Crime rates in important categories have increased in Greater Dandenong and are currently amongst the highest in Melbourne.

2016-17 Greater Dandenong crime rates, when compared to Melbourne, were\*:

- 48% higher for overall offences
- 80% higher for drug offences (3rd highest in Melbourne)
- 75% higher for public violent offences
- 30% 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 2016-17 there were 977 substantiated violent family offences reported per 100,000 people in Greater Dandenong\*.

\*Source: Profile of Health and Wellbeing in Greater Dandenong 2018

^Source: Community Satisfaction Survey

Figure CC – 2.3 Crime and Safety Statistics

### CRIME RATES<sup>+</sup>



**Against People**  
1989 per 100,000 (2016-17)

**Against Property**  
6788 per 100,000 (2016-17)

\*Source: Community Indicators Victoria

### PERCEIVED SAFETY<sup>#</sup>



**Felt Safe Walking at Night**

**2017 – 37% of Community**  
**2018 – 36% of Community**

#Source: Community Satisfaction Survey

### FAMILY VIOLENCE<sup>></sup>



**Alleged Family Offence**  
977 per 100,000 (2016-17)

**Alleged Child Abuse**  
1100 per 100,000 (2011-12)

>Source: Profile of Health and Wellbeing in Greater Dandenong 2018

## Highlights 2017-18

Annual Community Safety Night held in October 2017.

Safe City CCTV Program grew network of cameras to 106 cameras | cameras operational for 99.38% of the time  
Community Safety Advisory Committee advocates to State Government for additional resources and support.

## Current Actions 2018-19

Implementation of Greater Dandenong Community Safety Plan 2015-22 – Year Three.

- **Responsibility – Community Wellbeing**

**In Progress**

Implementation of the Greater Dandenong Safe City CCTV Program.

- **Responsibility – Regulatory Services**

**Ongoing**

Review the design and implementation of community safety, amenity and connectivity infrastructure for the Ross Reserve Master Plan, Noble Park.

- **Responsibility – Community Wellbeing**

**In Progress**

Implement Public Safety Infrastructure program as part of Dandenong Park redevelopment.

- **Responsibility – Community Wellbeing + City Improvement**

**In Progress**

## Completed Actions 2017-18

Installation of safety infrastructure and place activation in Ross Reserve, Noble Park.

✓

Review and updated the City of Greater Dandenong Alcohol Policy.

✓





## 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.

<b>2020 TARGET</b>
<b>Climate Change Strategy</b>
<b>BASELINE</b>
<b>Existing Policies and Strategies</b>
<b>PERFORMANCE</b>
<b>Existing Policies and Strategies</b>
<b>ON TARGET</b>

Climate change affects the social and environmental determinants of health – clean air, safe drinking water, sufficient food and secure shelter.

Increased climate change resilience requires a risk management approach that includes:

- identifying risks resulting from climate change impacts
- assessing and prioritising risks that require further action
- implementing processes to manage higher priority risks.

Council is reducing the risks associated with climate change with mitigation measures to reduce emissions and adaption measure to increase resilience to impacts.

Council is also working with key partners to reduce the impacts of climate change, especially those that impacts on the health of the local community.

**Figure CC – 2.4 Climate Change Projects and Partners**

**SECCCA**  
(South East Councils Climate Change Alliance)



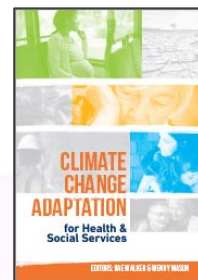
**FINANCIAL RISK ADAPTATION PLANNING – A Business Case**

**RISK MANAGEMENT**



**FRAMEWORK AND STRATEGY**

**ENLIVEN**



**CLIMATE CHANGE ADAPTATION – For Health & Social Services**

<b>Current Actions for 2018-19</b>	<b>Status</b>
Develop a Climate Change Strategy for Council and the City of Greater Dandenong. ▪ <b>Responsibility – Planning &amp; Design + People &amp; Procurement Services</b>	<b>In Progress</b>
Implement Climate Change objectives within the 2017-21 Community Wellbeing Plan ▪ <b>Responsibility – Community Wellbeing + Planning &amp; Design</b>	<b>In Progress</b>
Implement Risk Management Framework and the Municipal Emergency Management Plan. ▪ <b>Responsibility – People &amp; Procurement Services</b>	<b>Ongoing</b>
Work with SECCCA to develop and implement programs to increase resilience to climate change. ▪ <b>Responsibility – Planning &amp; Design + People &amp; Procurement Services</b>	<b>Ongoing</b>
Support and work with ENLIVEN to reduce health impacts of climate change on the community. ▪ <b>Responsibility – Planning &amp; Design + People &amp; Procurement Services</b>	<b>Ongoing</b>
<b>Completed Actions for 2017-18</b>	<b>Status</b>
Develop a Climate Change Strategy for Council and the City of Greater Dandenong.	<b>Completed</b>
Incorporate Climate Change objectives within the 2017-21 Community Wellbeing Plan	<b>Completed</b>



## 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 \$476 per week (2016)  
Ave. rent \$370 per week (2017)

### ON TARGET

The median house price for Greater Dandenong in 2017 was \$614,105, for the first time this was above the Greater Metropolitan Melbourne median house price of \$560,495

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 \$476 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  
Median Gross Income  
\$475 per week (2016)

Median Household Income  
\$1,168 per week (2016)

#### HOUSING



Median Rent 3-Bed House  
\$370 per week (2017)

Median House Price  
\$614,108 (2017)

\*Source: Profile of Health and Wellbeing in Greater Dandenong 2018

### Highlights – 2017-18

Implementation of the Greater Dandenong Housing Strategy.

Amendment C182 – residential planning rules to improve the quality and design of new housing.

### Current Actions 2018-19

Meet with social housing providers to investigate and facilitate local opportunities.

▪ **Responsibility – Planning & Design + Community Wellbeing + Economic Development Unit**

Offer rate rebates to vulnerable households through the Rates and Charges Hardship Policy.

#### 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.

<b>2020 TARGET</b>
<b>Increase Awareness</b>
<b>BASELINE</b>
<b>Existing Programs</b>
<b>PERFORMANCE</b>
<b>Implement Existing Program</b>
<b>ON TARGET</b>

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
- Trial of the Victorian Government's new *Residential Efficiency Scorecard* with Greater Dandenong households.
- Environmental education program of activities and events led by Parks and Waste Teams.

Figure CC – 2.6a Sustainability Festival & Awards Raising Community Awareness



Figure CC – 2.6b Greater Dandenong Sustainability Partners in 2018 include:

 <b>Residential Efficiency Scorecard trial</b>	 <b>Sustainable Development</b>	 <b>Pop-up community gardens</b>	 <b>Environmental Upgrade Agreements with local businesses</b>	 <b>Sustainability Festival &amp; Awards</b>
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### Current Actions 2018-19

	Status
Deliver the Greater Dandenong Family Sustainability Festival and Awards program.	Ongoing
<ul style="list-style-type: none"> <li>▪ <b>Responsibility – Planning &amp; Design</b></li> </ul>	
Implement the Waste and Litter Strategy's Action Plan and Annual Waste Education Plan.	Ongoing
<ul style="list-style-type: none"> <li>▪ <b>Responsibility – Infrastructure Services &amp; Planning</b></li> </ul>	
Implement the community environmental education program led by the CGD Parks Team.	Ongoing
<ul style="list-style-type: none"> <li>▪ <b>Responsibility – Infrastructure Services &amp; Planning</b></li> </ul>	
Use CGD website, publications and social media to increase community engagement.	Ongoing
<ul style="list-style-type: none"> <li>▪ <b>Responsibility – Comm. and Customer Service + Planning &amp; Design</b></li> </ul>	
Work with partners and key stakeholders to increase community engagement.	Ongoing
<ul style="list-style-type: none"> <li>▪ <b>Responsibility – Relevant Departments</b></li> </ul>	

### Completed Actions 2017-18

	Status
Integrated sustainability and environmental education into the Festival and Events Program.	Completed
Design of an environmental education facility at Alex Wilkie Reserve.	Completed
Creation of the CGD Environmental Event Program	Completed



# 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: 7290 hours



BE – 1.2 Fair Trade

Procurement Policy | Fairtrade Accredited



## 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

80 Activities | 103 Companies | 302 Participants (SEBN) | 38 Business ASPIRE



BE – 2.4 Education and Skills

Implement Existing Program



BE – 2.5 Awareness

Existing Programs





## Community Objective: BE – 1.1 Professional Development

Support staff with their professional development, especially around key sustainability issues.

<b>2020 TARGET</b>
<b>Increase Staff Training</b>
<b>BASELINE</b>
<b>General Staff Training: 7056 hours recorded (2015-16)</b>
<b>PERFORMANCE</b>
<b>General Staff Training: 7290 hours recorded (2017-18)</b>
<b>ON TARGET</b>

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 2017-18 there was a total of 7290 hours of general professional staff training recorded, consisting of:

- 5876 hours - Corporate Professional Development Programs
- 1411 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 2017-18

Council staff session on Climate Change at the Drum Theatre included screening of 'An Inconvenient Sequel'.

### Current Actions 2018-19

	<b>Status</b>
Increase awareness of Council's sustainability vision and framework as part of induction program. <ul style="list-style-type: none"> <li>▪ <b>Responsibility – Planning &amp; Design + People &amp; Procurement</b></li> </ul>	<b>Not Started</b>
Hold two sustainability forums for Council staff to increase awareness and foster sustainability culture <ul style="list-style-type: none"> <li>▪ <b>Responsibility – Planning &amp; Design + People &amp; Procurement Services</b></li> </ul>	<b>Ongoing</b>
Continue participation in the LGPro Ignite Program. <ul style="list-style-type: none"> <li>▪ <b>Responsibility – People &amp; Procurement Services</b></li> </ul>	<b>Ongoing</b>
Continue participation in the LGMA Management Challenge <ul style="list-style-type: none"> <li>▪ <b>Responsibility – People &amp; Procurement Services</b></li> </ul>	<b>Ongoing</b>

### Completed Actions 2017-18

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.

<b>2020 TARGET</b>
<b>Monitor and Report</b>
<b>BASELINE</b>
<b>Establish Baseline</b>
<b>PERFORMANCE</b>
<b>Fairtrade in Procurement Policy</b>
<b>ON TARGET</b>

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 2017-18

- Council formally became a Fair Trade Accredited Organisation.
- Council ran an internal information session for staff on Fairtrade Products.

### Current Actions 2018-19

	<b>Status</b>
Support the Fair Trade movement by purchasing certified Fairtrade products such as tea and coffee. <ul style="list-style-type: none"> <li><b>Responsibility – People &amp; Procurement Services</b></li> </ul>	<b>Ongoing</b>
Implementation of Council's Procurement Policy including actively promoting green procurement. <ul style="list-style-type: none"> <li><b>Ongoing   Responsibility – People &amp; Procurement Services</b></li> </ul>	<b>Ongoing</b>
Maintain formal Fair Trade accreditation as an organisation. <ul style="list-style-type: none"> <li><b>2016-19   Responsibility – People &amp; Procurement Services</b></li> </ul>	<b>Ongoing</b>
Hold internal staff event on Fairtrade Products and being a Fair Trade Organisation. <ul style="list-style-type: none"> <li><b>2016-19   Responsibility – People &amp; Procurement Services</b></li> </ul>	<b>Ongoing</b>

### Completed Actions 2017-18

- Internal event to promote Fair Trade products to Council staff.





## 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.

<b>2020 TARGET</b>
<b>Monitor and Report</b>
<b>BASELINE</b>
<b>Establish Baseline</b>
<b>PERFORMANCE</b>
<b>Limited Data</b>
<b>NOT AVAILABLE</b>

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.

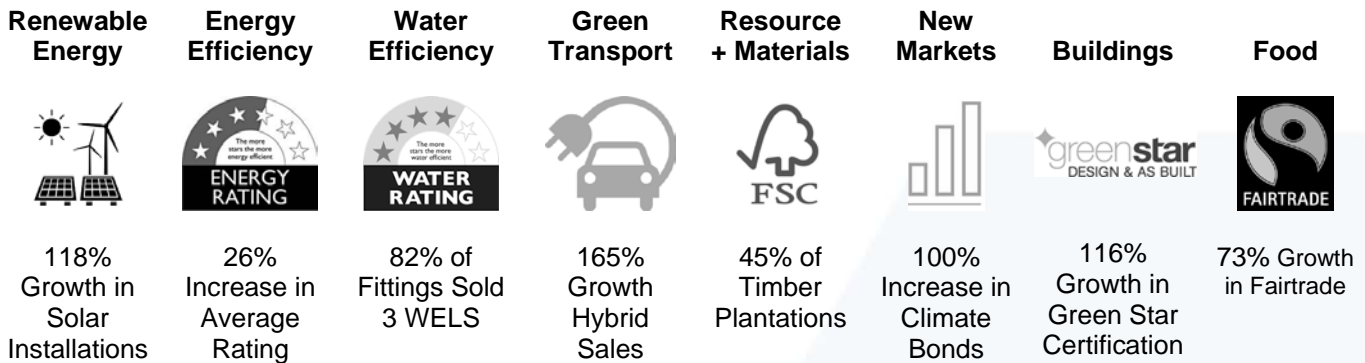
Our economy is transforming as a result of global trends based on new technologies, environmental pressures and consumer sentiment. Green businesses that understand and adapt to these changes and embrace new opportunities can achieve a competitive advantage and prosper into the future.



## 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<sup>^</sup>



<sup>^</sup>Source: The Next Boom, A surprise new hope for Australia's economy? Future Business Council, 2015

### Highlights 2017-18

Presentation of energy efficiency measures undertaken by local businesses to the South East Councils Climate Change Alliance's Leaders Breakfast, supported by the South East Business Networks (SEBN).

### Current Actions 2018-19

	Status
Plan, promote and deliver CGD annual sustainability awards program.	Ongoing
<ul style="list-style-type: none"> <li>Responsibility – Sustainability Planning Unit + South East Business Networks</li> </ul>	
Promote relevant external Sustainability Award programs to the local business community.	Ongoing
<ul style="list-style-type: none"> <li>Responsibility – Economic Development Unit</li> </ul>	
Undertake survey of local businesses to develop baseline for green businesses.	In Progress
<ul style="list-style-type: none"> <li>Responsibility – South East Business Networks + Economic Development Unit</li> </ul>	
Promotion of green businesses (including products and services) in Stakeholder Magazine.	Ongoing
<ul style="list-style-type: none"> <li>Ongoing   Responsibility – Economic Development Unit</li> </ul>	

### Completed Actions 2017-18

Promotion of local sustainable businesses, projects or developments in Stakeholder magazine.  
The Victorian Premiers Sustainability Award program promoted to local businesses through eNews Stakeholder



## 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.

<b>2020 TARGET</b>
<b>Increase Operational Efficiency</b>
<b>BASELINE</b>
<b>Establish Baseline</b>
<b>PERFORMANCE</b>
<b>Limited Data</b>
<b>NOT AVAILABLE</b>

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.

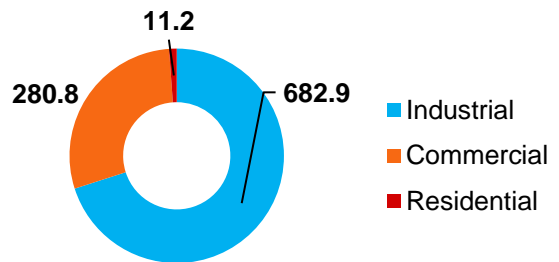
Electricity usage data provided by United Energy shows that in 2016 that for the Industrial sector, each customer used on average 682.9 MWh. This is significantly higher electricity usage than for the average customer from the Commercial sector (280.8MWh) or Residential sector (11.2MWh).

Note: The above data has not been update since the publication of the 2016-17 Annual Sustainability Report.

Figure BE – 2.2a Economic Facts – City of Greater Dandenong<sup>^</sup>



Figure BE – 2.2b - 2016 MWh electricity usage per customer - City of Greater Dandenong<sup>+</sup>



<sup>^</sup>Source: City of Greater Dandenong | Our Economy, 2015

<sup>+</sup> Source: United Energy

### Highlights 2017-18

Smart Recycling installed a 100kw Solar PV system via an Environmental Upgrade Agreement (EUA) with the Sustainable Melbourne Fund and Greater Dandenong Council.

### Current Actions 2018-19

	Status
Promote EUA's to businesses through the CGD website, Stakeholder magazine and other opportunities. ▪ <b>Responsibility – Economic Development Unit + South East Business Networks</b>	<b>In Progress</b>
Promote opportunities to local businesses to reduce their energy and water usage, through Council's website, the Stakeholder magazine and other opportunities. ▪ <b>Responsibility – Economic Development Unit + South East Business Networks</b>	<b>Ongoing</b>
Recognise and promote local sustainable businesses through annual Greater Dandenong Sustainability Awards. ▪ <b>Responsibility – Economic Development Unit + South East Business Networks</b>	<b>Ongoing</b>

### Completed Actions 2017-18

	Status
Promotion of Environmental Upgrade Agreements to local businesses via the Real Estate Forum Grants Program.	✓
14 Sustainability related articles published in the Stakeholder magazine and eNews in 2017/18	✓
City of Greater Dandenong hosted two of Gas Efficiency Masterclass Workshop for Sustainability Victoria	





## 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.

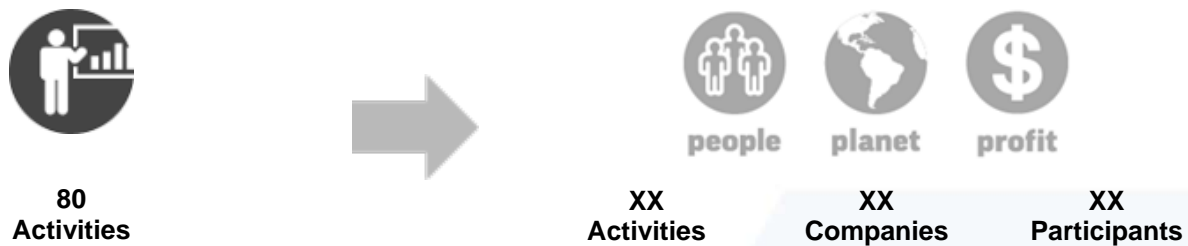
2020 TARGET
Increase Resource Efficiency
BASELINE
11 Activities   95 Companies   187 Participants (SEBN) 15 Business registered ASPIRE (2015-16)
PERFORMANCE
80 Activities   103 Companies   302 Participants (SEBN)   38 Business ASPIRE (2017-18)
ON TARGET

As part of the City of Greater Dandenong’s efforts to improve the sustainability of local businesses over the past 10 years, the South East Business Network (SEBN) delivers a number of Lean and Green events, programs and activities each year.

These activities and events are designed to encourage business and industry to increase their sustainability profiles with a focus on ‘people, planet, profit’ as a means of creating a competitive advantage.

In addition, the Greater Dandenong 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 2017-18



### Highlights 2017-18

SEBN Industry Sustainability Breakfast held in partnership with SECCCA – focus on energy, waste and pollution. Series of information and networking events for business – ‘Impact of China’s Ban on Recycling’ was very popular

### Current Actions 2018-19

	Status
Survey local businesses to identify current resource efficiency and materials reuse practices. ▪ <b>Responsibility – South East Business Networks + Economic Development Unit</b>	In Progress
Continue to promote and encourage participation in the ASPIRE resource exchange project. ▪ <b>Responsibility – South East Business Networks (SEBN)</b>	Ongoing
Raise awareness on sustainable practices and encourage adoption across networks and activities. ▪ <b>Responsibility – South East Business Networks (SEBN)</b>	Ongoing
Deliver activities to increase knowledge of global trends – includes Business Sustainability Series ▪ <b>Responsibility – South East Business Networks + Planning &amp; Design</b>	Ongoing

### Completed Actions 2017-18

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. ✓



## 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.

<b>2020 TARGET</b>
<b>Increase Skills</b>
<b>BASELINE</b>
<b>Establish Baseline</b>
<b>PERFORMANCE</b>
<b>Implement Existing Programs</b>
<b>ON TARGET</b>

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	Training Providers	Social Enterprise
13 State Primary Schools 5 State Secondary Schools 10 Privately funded Schools 3 Tertiary campuses	10 Registered Training Organisations with a presence in Greater Dandenong	2011 Social Enterprise Survey*: 10 participants \$41 Million income 352 Volunteers 1,049 Employees 60% local employees
<small>*Source: Social Enterprises in Greater Dandenong, City of Greater Dandenong 2011</small>		

### Highlights 2017-18

Victorian Government funding for SEBN to chair the Greater Dandenong and Regional Employment Taskforce.  
 1% Project – Supporting employers to recruit 1% of their workforce to support disadvantaged jobseekers.  
 Establishment of Mayoral Youth Employment Taskforce providing advice on responding to youth unemployment.

### Current Actions 2018-19

	Status
Implementation of the Mayoral Youth Employment Taskforce. <ul style="list-style-type: none"> <li><b>Responsibility – Community Wellbeing</b></li> </ul>	<b>In Progress</b>
Support Social Enterprise sector develop business skill development and employment opportunities. <ul style="list-style-type: none"> <li><b>Responsibility – Economic Development Unit (EDU)</b></li> </ul>	<b>Ongoing</b>
Support businesses and social enterprise as identified in the Local Economic and Employment Development Strategy and Procurement Policy. <ul style="list-style-type: none"> <li><b>Responsibility – Economic Development Unit + SEBN</b></li> </ul>	<b>Ongoing</b>

### Completed Actions 2017-18

Promotion of Social Enterprises through seven articles in the Stakeholder Magazine and Enews Stakeholder during 2017/18.	✓
Over 200 secondary school students, teachers & businesses attended the annual Lunch with the Winners event, delivered by Council in partnership with the South East Local Learning and Employment Network (LLEN).	✓



## Community Objective: 2.5 Awareness

Engage and empower the business community to help them benefit from adopting sustainable business practices.

<b>2020 TARGET</b>
<b>Increase Awareness</b>
<b>BASELINE</b>
<b>Existing Programs</b>
<b>PERFORMANCE</b>
<b>Implement Existing Programs</b>
<b>ON TARGET</b>

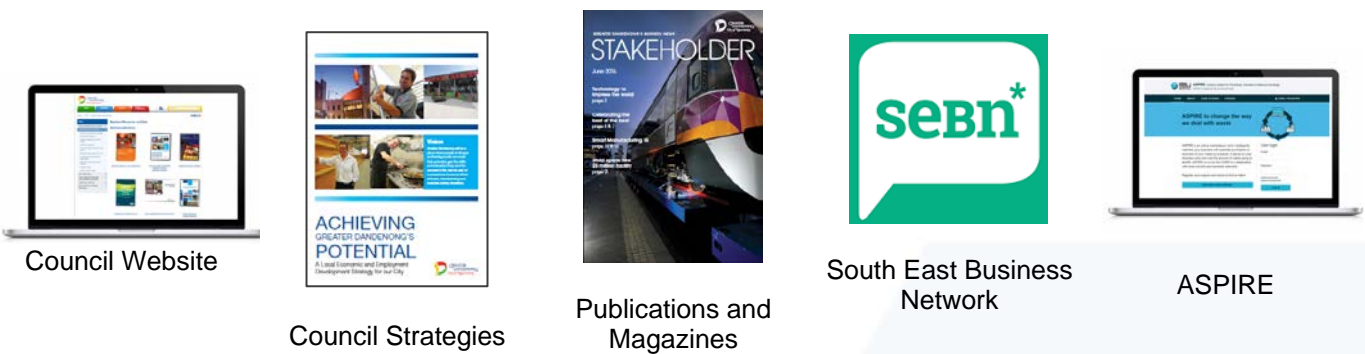
While Council works within a broader economic and policy context, the local economy has a number of challenges that require attention at the local level if the area is to be sustainable and prosperous into the future.

This includes:

- Local employment and labour force issues,
- Sustainable development of industrial precincts
- Position local economy for a low carbon 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 2017-18

38 Businesses registered with Advisory Service for Process Information and Resource Exchange (ASPIRE) program. Council and Sustainable Melbourne Fund promote Environmental Upgrade Agreements (EUA's) to local businesses. .

### Current Actions 2018-19

	<b>Status</b>
Deliver the 2018-19 Annual Greater Dandenong Sustainability Business Awards.	<b>In Progress</b>
<ul style="list-style-type: none"> <li>▪ <b>Responsibility – Economic Development Unit + Planning &amp; Design + SEBN</b></li> </ul>	
Promote EUA's to businesses through website, the Stakeholder magazine and other opportunities.	<b>In Progress</b>
<ul style="list-style-type: none"> <li>▪ <b>Responsibility – Economic Development Unit + South East Business Networks</b></li> </ul>	
Continue to raise awareness, provide exposure to good practice and encourage adoption of all disciplines of sustainability across all SEBN networks and activities.	<b>Ongoing</b>
<ul style="list-style-type: none"> <li>▪ <b>Responsibility – South East Business Networks</b></li> </ul>	
Promote opportunities to local businesses to reduce their energy and water usage through Council's website, the Stakeholder magazine and other opportunities.	<b>Ongoing</b>
<ul style="list-style-type: none"> <li>▪ <b>Ongoing   Responsibility – Economic Development Unit + South East Business Networks</b></li> </ul>	

### Completed Actions 2017-18

Delivery of series of Business Sustainability network events for local businesses.	✓
Four editions of Stakeholder magazine published with it distributed on average to over 7,000 businesses	✓
Over 20 eNews versions of Stakeholder Magazine published with articles on a broad range of topics including Business Sustainability	✓