


CORPORATE ENVIRONMENTAL STRATEGIC PLAN 2016 - 2025



Working together, to achieve community wellbeing, **for today and tomorrow**



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Contents

Welcome / Foreword from the Mayor	4
Executive Summary	5
Linkages to the City of Melville Corporate Business Plan 2016-2020	6
1. Introduction	9
1.1 Purpose: Objectives and Desired Outcomes	9
1.2 Background	9
1.3 Scope	9
1.4 Risk	9
2. Strategic Context	10
2.1 Legal Requirements	10
2.2 National	10
2.3 Western Australia	11
2.4 City of Melville	11
2.5 Goals, objectives and targets	12
3. Stakeholder Consultation	13
4. Data Analysis	14
5. Implementation: Actions	19
5.1 Actions	19
5.2 Performance Indicators	25
6. Monitoring of progress of actions and performance indicators	26
7. Review of this plan	28
8. References	29

Welcome / Foreword From The CEO

The community's interest in protecting the natural environment was highlighted in feedback that formed the basis of the Clean and Green Aspiration as outlined in the Strategic Community Plan. Supporting surveys¹ extended this aspiration to adopting the broader principles of environmental sustainability.

Environmental sustainability relates to the way resources are used with the objective of minimising the impact on the natural environment locally and its subsequent contribution globally. Applying sustainability practices take a broader perspective towards 'value' which in practice often results simultaneously in cost savings.

The community's aspirations are consistent with the Australian Government's agenda to significantly reduce emissions² and the City's commitment to achieve business excellence in every aspect of delivering services to the community.

This City's environmental leadership commitment is demonstrated through certification to ISO14001 – Environmental Management Standard. The City has also made a commitment to the Waterwise Council Program, whereby the City works with the Water Corporation and the Department of Water to improve water management and champion water efficiency in every area of the City's operations and facilities.



CEO, Dr Shayne Silcox



¹ 2015 Wellbeing Survey, City of Melville & Catalyse 2016 Perception Survey, City of Melville

² Current Australian government target is 26-28% reduction below 2005 levels at 2030

Executive Summary

The City's leadership is focused on providing clear links between the community's aspirations and how we translate them into operational practices including strategic goals and objectives.

From an Australian Business Excellence Framework (ABEF) perspective this Corporate Environmental Strategic Plan (CESP) indirectly addresses all categories, with a direct association to Sustainable Performance.

Sustainable performance (principle eight) is defined within the ABEF framework as an organisation's ability to deliver value for all stakeholders in an ethically, socially and environmentally responsible manner. Based on:

- community consultation;
- consideration of organisational risks related to climate change;
- corporate priorities and benchmarking of other local governments;

The following corporate environmental goals have been determined as priorities for the Corporation of the City of Melville – referred to hereafter as the City:

Greening of the City	Increasing the vegetation canopy coverage and biodiversity on City owned or controlled land whilst advocating for and promoting such outcomes on privately owned land within the City's boundaries.
Reduce Carbon Emissions	Achieving reductions in greenhouse gas emissions (GHG) emanating from City operations in line with those targets recommended by the Australian Government Climate Change Authority.
Sustainable Energy Management	Reduce consumption of and expenditure on energy used in City operations. Optimise the City's reliance on renewable sources of energy without degrading energy security.
Sustainable Water Management	Use scheme and groundwater water resources sustainably. Prevent pollution of waterways.
Sustainable Waste Management	Reduce the amount and environmental impact of waste emanating from City operations.
Focus on Life Cycle	Increase the use of Life Cycle analysis for services, projects and procurement across all service areas at the City to understand their true value, associated risks and impacts across the whole life cycle.
Demonstrating Sustainability Leadership	Active participation, knowledge sharing, partnering and disclosure at a local, national and global level.

Note: These priorities will be worked on concurrently throughout the next ten years. These goals have also been engendered within the City's Environmental Management Framework.

Executive Summary



Linkages to the City of Melville Corporate Business Plan 2016-2020

The City has developed this document in consideration of the Strategic Community Plan which outlines the community's aspirations.

The community's interests were consolidated into six aspirations as outlined in the Corporate Business Plan (CBP).

The CBP priorities strongly support the requirement for new strategies to protect the City's resources, and pursue productivity and efficiency improvements such as implementing new waste treatment technologies.

This plan (Corporate Environmental Strategic Plan) supplements the CBP specifically addressing the aspiration of "Clean and Green" as demonstrated in Figure 1 (see following page).

The CBP solidifies the six community aspirations having been aligned with the five key priorities and thirteen strategies identified by the elected members and senior staff members that will be required to achieve those aspirations. This plan directly relates to five of the strategies which have been used to consider the objectives and goals outlined in this plan.

Figure 1 –Strategic Community Plan and Corporate Business Plan integration

Our Purpose

The City of Melville Vision: “Working together, to achieve community wellbeing, for today and tomorrow”

What we try to achieve

Community wellbeing, as influenced by the community’s aspirations and priorities as detailed in the Strategic Community Plan, 2016 - 2026.

QUALITY OF LIFE



clean and green



sustainable and connected transport



safe and secure



healthy lifestyles



sense of community



growth and prosperity

Business Excellence

To achieve this the organisation must also be successful and sustainable across the “quadruple bottom line” considerations: financial, social, environmental and governance.



Australian Business Excellence



Quality Assurance

How we contribute to community wellbeing (our approach)

Key aspiration specific plans:



Environmental Improvement Plan
Foreshore Restoration Strategy
Natural Areas Asset Management Plan



Parking Strategy
Bike Plans
Transport Management Strategy



Safer Melville: Community Safety and Crime Prevention Plan



Health and Wellbeing Strategy
Public Open Space Strategy



Neighbourhood Plans
Cultural Vitality Plan
Directions from Young People
Directions from Seniors
Aboriginal Reconciliation Plan
Disability Access and Inclusion Plan
Strategic Plan for Libraries and Museums



Local Economic Development Strategy
Local Commercial and Activity Centres Strategy
Local Planning Scheme 6
Structure Plans

- Internal Business Management System which is externally audited against and internationally accredited / certified to:
 - ISO 9001: Quality Management System
 - ISO 14001: Environmental Management System
 - AS/NZS 4801 Occupational Health and Safety Management Systems
 - ICCS 2015-2020: International Customer Service Standard
- City of Melville Frameworks

Underpinned by:

- Delivery of over 200 products and services, as listed on page 17 or see A-Z of City of Melville Services on the website
- Management of assets to ensure; fit for use, appropriate infrastructure into the future (as according to capital works and asset management plans for: buildings, fleet, furniture, IT assets, jetties, lighting, natural areas, parking meters, parks, paths, public art, recreation equipment and roads)

Figure 2 – Connections between this plan and the strategies outlined in the Corporate Business Plan.

Alignment between Aspirations from the Strategic Community Key Priorities and Strategies from the City of Melville						
Document: People Place Participation 2016 - 2026	Key Aspirations	Clean and green Sustainable and connected transport Safe and secure Healthy lifestyle Sense of community Growth and prosperity	Clean and green Sustainable and connected transport Safe and secure Healthy lifestyle Sense of community Growth and prosperity	Clean and green Sustainable and connected transport Safe and secure Healthy lifestyle Sense of community Growth and prosperity	Clean and green Sustainable and connected transport Safe and secure Healthy lifestyle Sense of community Growth and prosperity	Sense of community
Document: City of Melville Corporate Business Plan 2016 - 2020	City of Melville Key Priorities	<p>Key priority: Restricted current revenue base and increasing/changing service demands impacts on rates</p> <p>Key strategies:</p> <ol style="list-style-type: none"> 1. Explore opportunities for increased residential density and commercial investment in strategic locations, aligned to the local planning objectives and coupled with the exploration of special area rating 2. Creating greater revenue from our current and potential land, property and facility holdings 3. Pursue productivity and efficiency improvements 	<p>Key priority: Meeting the demand to provide fit for use/appropriate infrastructure into the future</p> <p>Key Strategies:</p> <ol style="list-style-type: none"> 1. Optimise facilities to achieve 'fit for use' facilities for current and future beneficiaries. Includes amalgamation of like groups into hubs and shared use of facilities (private sector, State Govt., other LG and community groups) 2. Review the standards and management model that we assess our asset gap against (the technical standards and from a customer perspective regarding their expectations) 	<p>Key priority: Urban development creates change in amenity (positive and negative)</p> <p>Key Strategies:</p> <ol style="list-style-type: none"> 1. Ensure higher density developments in strategic locations, consistent with the local planning framework and structure plans, design guidelines for interface areas and ensuring measured change in established areas and consideration of parking and traffic issues 2. Enhance amenity and vibrancy and enhancing community safety through streetscapes, public art, pedestrian and cycle paths, place making and creating well designed, attractive public spaces 	<p>Key priority: Degradation of natural resources within the City</p> <p>Key Strategies:</p> <ol style="list-style-type: none"> 1. Holistic and integrated strategies for protection of the City's natural resources (includes urban forest, foreshore protection, public open space and streetscapes) 2. Ameliorate loss of vegetation from private property development 3. Explore with current and potential partners the next generation waste treatment technology and implement 	<p>Key priority: The challenge of meeting community expectations regarding community engagement</p> <p>Key strategies:</p> <ol style="list-style-type: none"> 1. Improve communication mechanisms to make information easy to access regarding community engagement, including improving website, addressing misinformation in the community and optimising use of social media 2. Continue participatory budgeting that involves the community (such as Project Robin Hood) and then taking it further 3. Improve engagement with the business community

1. Introduction

1.1 Purpose

The purpose of this plan is to provide guidance and direction with respect to the City's corporate environmental sustainability priorities over the period 2016 to 2025 in association with the Corporate Business Plan 2016-2020. In setting these priorities the document presents strategic goals, objectives, targets and the actions that the City will undertake to achieve them. The actions as detailed in this plan result from extensive stakeholder consultation and analysis by each of the City's Service Area. The plan is subject to review on a continual basis in line to the City's commitment to continuous improvement.

1.2 Background

This Corporate Environmental Strategic Plan (CESP) replaces the 2014-15 Environmental Improvement Plan (EIP) thus repositioning these objectives in-line with management's direction for strengthening alignment to the Community and Corporate Plans. The timeframe of the CESP has been extended to 10 years to establish long term direction for critical environmental issues. A minor review of this plan will be conducted annually as part of the annual management review process with a special focus on the Action Plan. A major review shall be undertaken every five years or earlier if deemed necessary.

1.3 Scope

This plan covers all of the assets and services within the City's direct control. This includes the buildings, public open spaces and road reserves. Areas outside the City's direct control are out of scope.

1.4 Risks

Environmental risks are outlined in the City's internal Safety, Health and Environment risk register.

The broad risk categories (relevant to environmental sustainability impacts) can be summarised as:

1. Environmental compliance / pollution / GHG Emissions
2. Natural resource degradation
3. Water resource degradation and quality
4. Energy security and quality
5. Climate change
6. Stakeholder confidence
7. Long term impacts across the life cycle

Introduction



Strategic Context

2. Strategic Context

2.1 Legal Requirements

Relevant legislation is summarised in the City's internal Safety, Health and Environment Risk and Legal register.

Key legislation includes:

- ▶ Environment Protection Act 1986 (WA)
- ▶ Local Government Act 1995 (WA)
- ▶ Environmental Protection (unauthorised discharges) Regulations 2004
- ▶ Swan and Canning Rivers Management Act 2006
- ▶ Waste Avoidance and Recovery Act 2007
- ▶ Environmental Protection and Biodiversity Conservation Act 1999

Other relevant legal obligations include:

- ▶ Groundwater abstraction licence requirements
- ▶ Water restrictions
- ▶ Trade waste agreements

2.2 National

- ▶ Australian Government Climate Change Authority recommendations. The Authority provides expert advice on Australian Government climate change mitigation initiatives.
 - Recommends that Australia adopt reduction targets of 36% below 2005 levels by 2025 and 45-63% at 2030.
- ▶ Current Australian government target is 26-28% reduction below 2005 levels at 2030.
- ▶ Recent United Nations Climate Change Conference (UNFCCC) agreement (Paris 2015) on limiting global warming increases to 2 degrees Celsius above pre-industrial levels but asks signatory countries, of which Australia is one, for an increase limited to 1.5 degrees Celsius.

- ▶ Political landscape – Climate change policy has changed significantly over the last 10 years along with the change of government. Aligned with the City's commitment to business excellence the City should adopt a local government approach which is benign to policy changes at a federal level. To achieve this, a science based approach is recommended based on the City achieving its fair share of greenhouse gas (GHG) emission reductions.

2.3 Western Australia

- ▶ Waste Management
 - Waste Authority
 - Western Australian Waste Strategy
- ▶ Water Management
 - Water Corporation
 - Water Forever: Towards Climate Resilience 50 year plan released October 2009
 - Water Forever Whatever the Weather - Drought-proofing Perth 10 year plan
- ▶ Department of Water
 - Water Quality Improvement Plan Swan Canning Rivers
 - Department of Parks and Wildlife
 - Swan Canning River Protection Strategy

2.4 City of Melville

Community feedback outlines that the community is not just focused on degradation but rather a significant enhancement of the existing parks, reserves and open spaces. Within this document these are collectively referred to as public open spaces. This broader position reinforces the need to have ecologically sustainable management of the Western Australia's land, water, air and biodiversity resources for the benefit of existing and future generations.

Climate change is one of the largest threats to public open space due to weather extremes, increased heat and reduced rainfall. Mitigating these impacts and becoming more resilient to climate change will ensure the City plays its part in minimising the potential loss of amenity to the City's stakeholders.

Considering strategic risks to resource availability, (raw materials, water and energy) environmental management will play a critical role in ensuring efficient resource use and waste minimisation.



2.5 Goals, objectives and targets

Based on community consultation, examination of corporate and organisational risks related to climate change and benchmarking of other local governments the following corporate environmental goals have been determined:

Goal	Objectives
Greening of the City	Increasing the vegetation canopy coverage and biodiversity on City owned or controlled land whilst advocating for and promoting such outcomes on privately owned land within the City's boundaries.
Reduce Carbon Emissions	Achieving reductions in greenhouse gas emissions (GHG) emanating from City operations in line with those targets recommended by the Australian Government Climate Change Authority.
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Demonstrating Sustainability Leadership	Active participation, knowledge sharing, partnering and disclosure at a local, national and global level.

Note: These priorities will be worked on concurrently throughout the next ten years.

2. Stakeholder Consultation

Whilst the scope of this CESP relates predominantly to those items under the City's direct control, stakeholder consultation is important to ensure that all the City's stakeholders are aligned on established priorities for environmental improvement within the City. The opportunity exists for every service line to engage with internal and external stakeholders for their activities and map the externalities associated to their operations to understand the relative priorities of the proposed corporate environmental goals and improve them on a continual basis.

The relevant stakeholder groups can be classified under two broad categories:

1. Internal Stakeholders
 - a. Elected members (The Council)
 - b. CEO
 - c. Executive Management
 - d. Employees
 - e. Contractors
2. External Stakeholders
 - a. Community
 - i. Residents
 - ii. Environmental community groups
 - iii. Businesses
 - iv. Schools
 - b. State Government
 - c. Federal Government
 - d. Other Councils
 - e. Council Associations like WALGA
 - f. Developers
 - g. Western Power / Synergy
 - h. Outside Contractors
 - i. NGOs / Civil Societies
 - j. Sports Clubs

Stakeholder Consultation



The Internal stakeholder groups were engaged in defining the areas that the CESP needed to address, during which agreed strategies and targets were determined.

External Stakeholders are also consulted on a regular basis. Community consultation conducted for the development of the Strategic Community Plan highlighted that parks, reserves and natural areas are the highest areas of community interest. There were many comments with regard to increasing the number of trees lining the streets and that parks are clean and well maintained. However based on community workshops, issues of sustainable development, sustainable transport including public transport and cycle paths also figured prominently.

The Wellbeing Survey conducted in 2015 revealed that overall, close to three quarters (72%) of Melville residents are happy with the community's efforts to protect and maintain the natural environment with a further 60% very happy with water and electricity conservation efforts. The 2016 Community Perceptions Survey shows high satisfaction ratings for natural bush land (89%), parks and open spaces (95%) and river foreshore (91%). Of the 6 in 10 people who felt qualified to answer the survey question as to the City's efforts to adapt to climate change 60% of the respondents were satisfied being the lowest out of these categories.



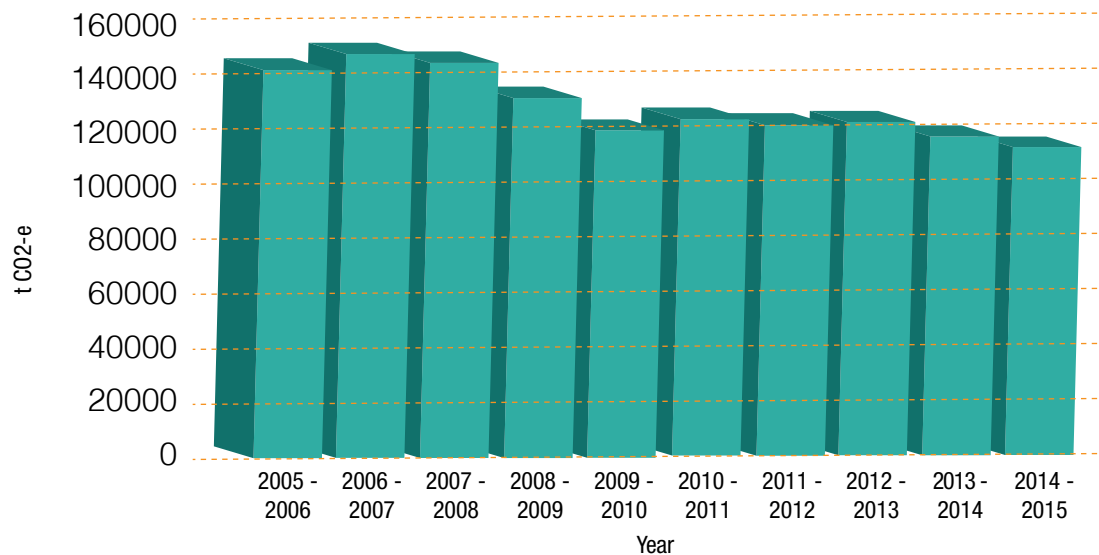
Data Analysis

4. Data Analysis

The following section contains an analysis of data collected and which has been used to influence the actions and targets.

GHG Emissions

Historical GHG emissions data for the City, including street lights and electricity consumption across the organisation is illustrated in Figure 3 show a downward trend since 2006-07.

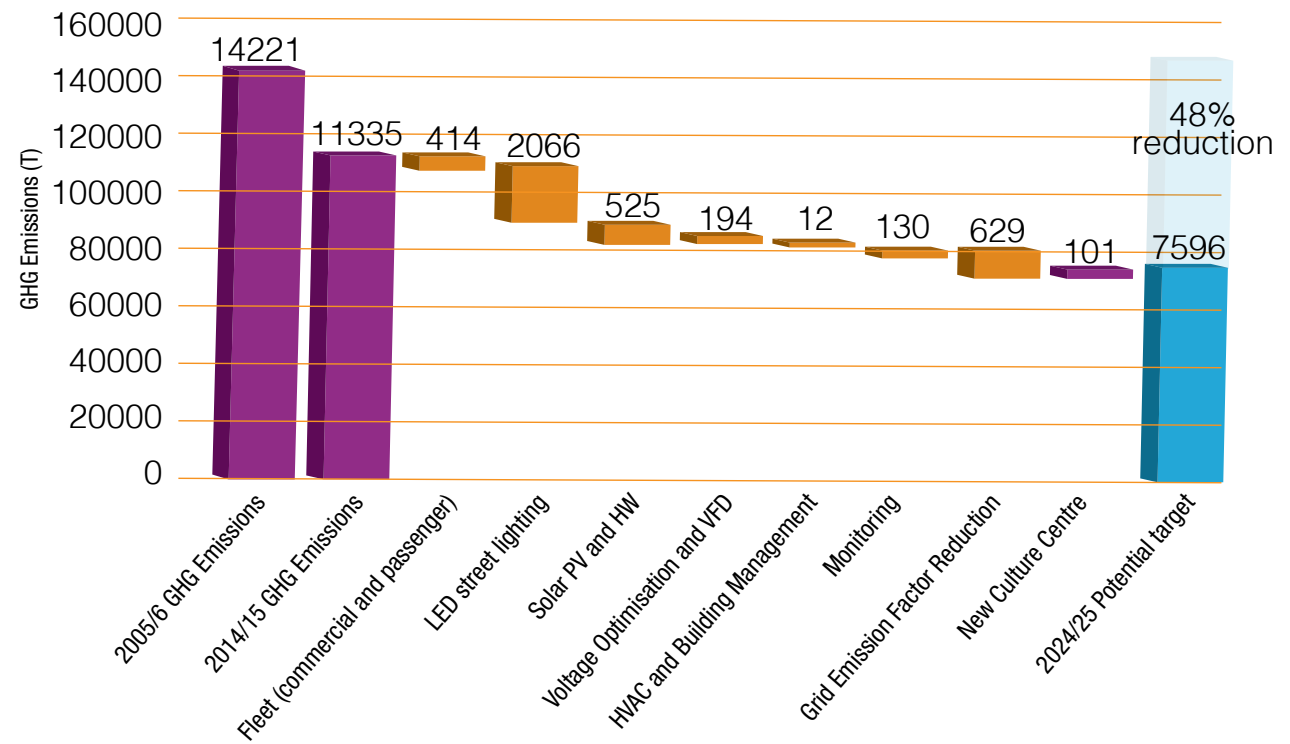
Figure 3: Historical GHG emissions (t CO2-e) scope 1 and 2 including street lighting

In line with the global targets based on 2005-06 levels and based on this analysis, a target in the range of 45-50% at 2024/2025 compared with emissions for 2005/2006 has been considered feasible.

The City has determined that sustainable energy management across City's assets is critical in achieving the target of reducing GHG emissions. A supporting roadmap has been developed as illustrated in Figure 4 to showcase the areas where opportunities exist to improve our performance on Energy Consumption.



Figure 4: GHG emission reduction roadmap through Energy Portfolio



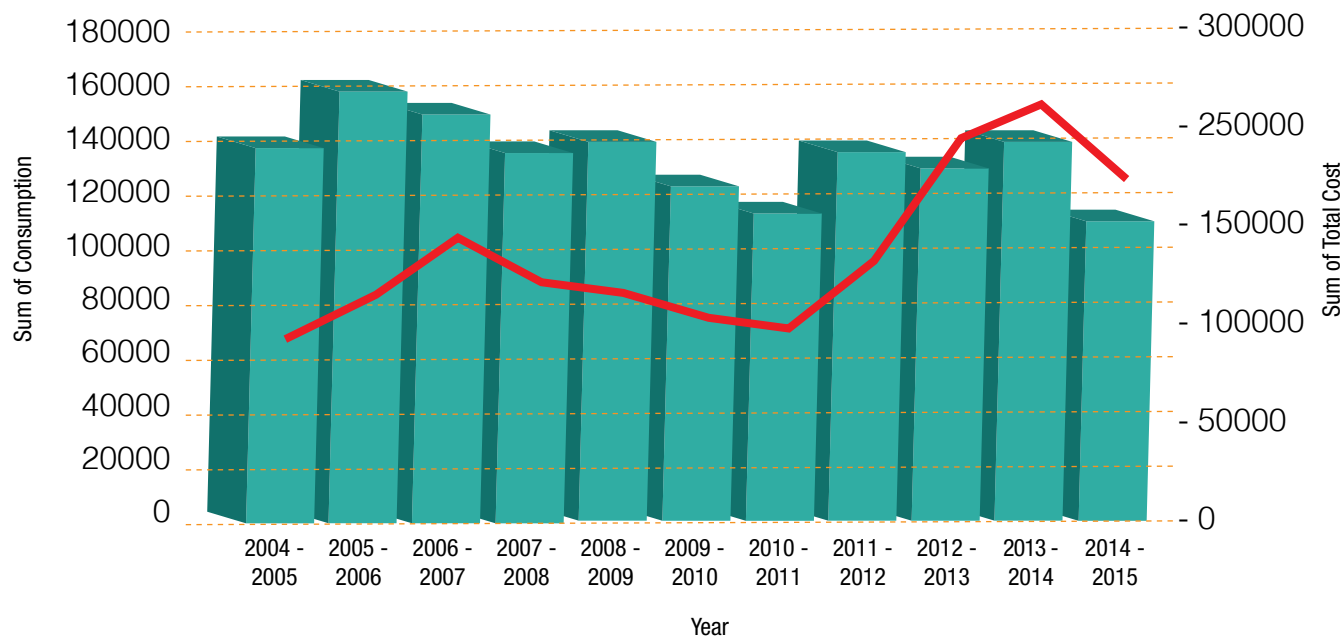
Waste Management

The City has adopted a Waste Reduction roadmap wherein the focus lies on establishing an organisational waste measurement and monitoring process, optimising waste collection system and encouraging staff to “reduce, reuse and recycle”.

Water Management

Historical Scheme Water Consumption of the City shows that there has been a reduction by 34% as compared to 2005-06 levels (Figure 5). The City is now planning to develop facility level targets and strengthen its commitment by developing a Water Efficiency Action Plan and increasing its focus to groundwater abstraction. An initial target of 10% is proposed on improving efficiency but a long term target still needs to be established based on a scientific rationale.

Figure 5: Historical Scheme Water Consumption (kL) and Cost (\$)



City Footprint

The City, both in energy as well as water consumption, has a very small footprint compared to the total footprint of the City of Melville municipal area. Figures 6 and 7 show that the City of Melville organisation's facilities use only 2% of electricity and 1% of scheme water of the total consumption of all users / properties within the City of Melville boundaries.

Within the City of Melville's boundaries the City of Melville organisation abstracts 18% of the total groundwater abstracted whereas the total share of others using the same resource is higher as illustrated in Figure 8.

These statistics encourage the City to increase the scope of its actions to include community education and analyse the impacts of its actions on the community's performance on environmental parameters.

The CESP is well engendered within the City's Corporate Plan and strengthens the commitment. Inclusion in the Corporate Plan ensures its consideration during business planning for each service line and promotes environmental sustainability across the organisation.

Figure 6: Electricity Consumption Data across City of Melville

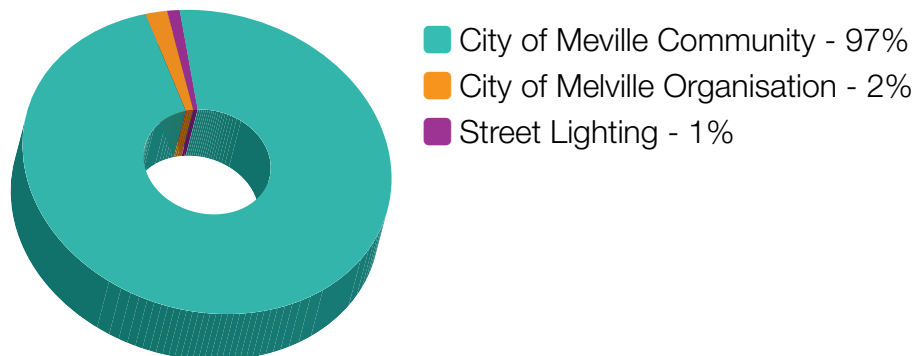


Figure 7: Water Consumption Data across City of Melville

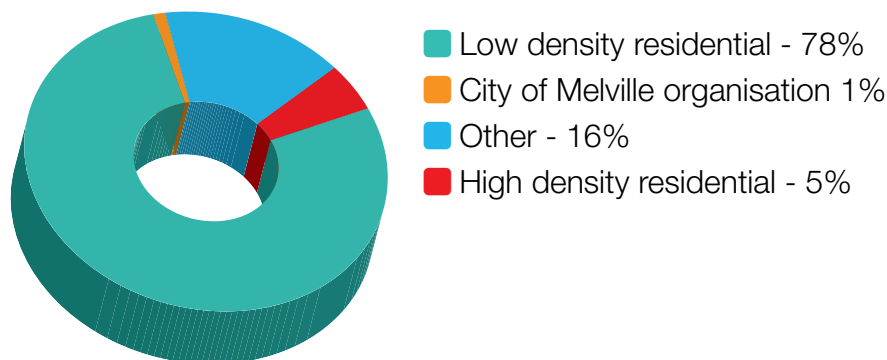
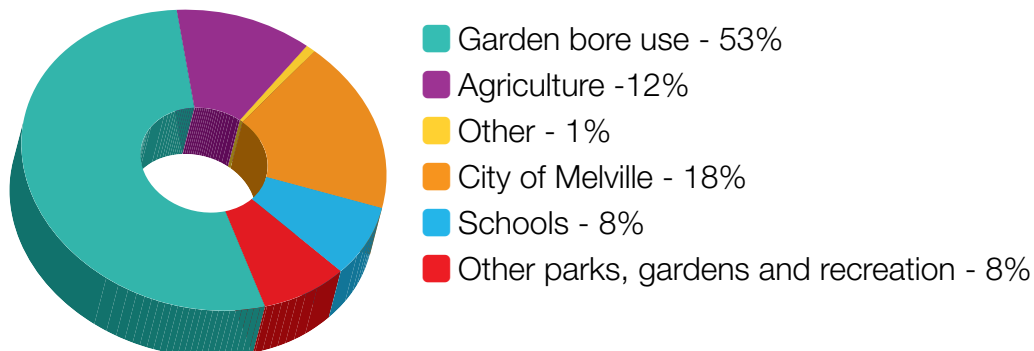


Figure 8: Ground Water Abstraction Data across City of Melville



5. Implementation: Actions

5.1 Actions

Goal 1

Greening of the City by increasing the vegetation canopy coverage and biodiversity on City owned or controlled land whilst advocating for and promoting such outcomes on privately owned land within the City's boundaries.

Actions to make it happen	Measures of Success	Responsible Officer
<ul style="list-style-type: none"> Improve the natural areas and parks to promote biodiversity in the region giving priority to native vegetation wherever feasible and restoring degraded bush lands and conducting weed control Plant more trees in parks, streetscapes and bushlands 	<ul style="list-style-type: none"> Increase in native vegetation and better weed management across the natural areas and parks within the City % net increase in the number of trees planted each year 	<ul style="list-style-type: none"> Director Technical Services
<ul style="list-style-type: none"> Promote, advocate and support the adoption of green urban designs (Green walls, roofs, fences etc.) and the retention of canopy cover on private land as a result of property development 	<ul style="list-style-type: none"> More vegetation retention and installation of green walls and roofs visible across the City and at City owned facilities 	<ul style="list-style-type: none"> Director Urban Planning

Implementation: Actions



Goal 2

Reduce Carbon Emissions by targeting greenhouse gas reduction from City's operations.

Actions to make it happen	Measures of Success	Responsible Officer
<ul style="list-style-type: none"> Establishing GHG reduction strategies across Water, Energy and Waste Management 	<ul style="list-style-type: none"> Progress against City's GHG reduction roadmap as per Figure 2 	Director Corporate Services
<ul style="list-style-type: none"> Managing the natural areas, parks and facilities under City's control for GHG reduction 	<ul style="list-style-type: none"> GHG reduction considered as an objective in designing other plans and strategies 	Director Technical Services Director Corporate Services
<ul style="list-style-type: none"> Promoting best practices across the community for reducing GHG emission from their activities 	<ul style="list-style-type: none"> Communicating learnings from emission reduction projects by the City 	Director Corporate Services
<ul style="list-style-type: none"> Promote low emission urban designs 	<ul style="list-style-type: none"> Pilot projects undertaken and promoted by the City to promote low emission urban design 	Director Urban Planning

Goal 3

Sustainable Energy Management by reducing energy consumption and optimise its use of renewable sources of energy.

Actions to make it happen	Measures of Success	Responsible Officer
<ul style="list-style-type: none"> Improving vehicle fleet efficiency Implementing enhanced energy monitoring across City's facilities Replacing existing lighting fixtures by efficient lighting Improving cooling efficiency of buildings Improving water pumping efficiency across City's parks Increasing adoption of renewable energy generation at City's assets Negotiating feed-in tariff with Electricity Company to maximise returns from City owned renewable energy assets Advocating energy efficient street lighting across the city (Controlled by Western Power) 	<ul style="list-style-type: none"> Reduction in total volume of fuel procured City is energy audited and efficiency improvement plan developed Reduction in total amount of electricity consumed across City's facilities Star Rating of City owned buildings improves Optimal renewable energy potential assessed and an implementation strategy is developed and deployed. Adoption of ISO 50001 as a tool for enhancing Energy Management System across the City Communicate sustainable energy management learnings to the community 	Director Corporate Services

³ The Star rating refers to GBCA Green Building rating system or NABERS rating system



Goal 4

Strengthen approach to Sustainable Water Management by using scheme and groundwater water resources sustainably and preventing pollution of waterways.

Actions to make it happen	Measures of Success	Responsible Officer
<ul style="list-style-type: none"> Reducing consumption of scheme water by improving water efficiency Optimising ground water abstraction Promoting rainwater harvesting across City's assets Efficiently controlling discharge of pollutants Efficient storm water management to reduce water pollution and consumption Apply water sensitive urban design principles Develop a waterways pollution reduction roadmap 	<ul style="list-style-type: none"> Scheme water consumption reduced on a continual basis Efficient consumption of Ground Water abstracted Increase in rainwater harvesting Water Efficiency action plan reviewed and enhanced on a continual basis Improved monitoring and management of pollutants and discharge at assets near sensitive and foreshore areas. 	Director Technical Services

Goal 5

Sustainable Waste Management to reduce the environmental impact of waste.

Actions to make it happen	Measures of Success	Responsible Officer
<ul style="list-style-type: none"> Improving an organisational waste measurement and monitoring process Establishing a more efficient waste collection system Increasing awareness for waste reduction and promoting best practices on waste management 	<ul style="list-style-type: none"> Waste monitoring optimised Waste reduction program implemented Reduction in waste generated from City's operations Results, findings and learnings from the sustainable waste management programs disclosed to the wider stakeholder group and community 	Director Corporate Services

Goal 6

Focus on Life Cycle

Increase the use of Life Cycle analysis for services, projects and procurement across all service areas at City of Melville to understand their real value, associated risks and impacts covering the whole life cycle.

Actions to make it happen	Measures of Success	Responsible Officer
<ul style="list-style-type: none"> Reviewing organisational assessment techniques to include whole of life value considerations Integrating life cycle considerations across all projects, operations and services by the City 	<ul style="list-style-type: none"> Inclusion of life cycle value assessments across all City's processes. Training program developed and conducted for OMT, EMT and Staff responsible for procurement, project scoping and project management 	Director Corporate Services



Goal 7

Demonstrating Sustainability leadership by active disclosure and partnerships on knowledge sharing at global level.

Actions to make it happen	Measures of Success	Responsible Officer
<ul style="list-style-type: none"> • Linking environment performance to sustainability across the organisation co-existing as a component of Business Excellence • Integrating disclosure from City's Plans and achievements to demonstrate sustainability across the organisation on Social, Environmental and Economic aspects • Aligning City's Goals for sustainable development with Global Sustainable Development Goals (SDGs) • Affiliating with relevant disclosure platforms to demonstrate leadership • Partnering with Global cities to share knowledge and demonstrate leadership on Sustainability 	<ul style="list-style-type: none"> • Inclusion of sustainability considerations across all City Frameworks • Developing a reporting framework in accordance to GRI (Global Reporting Initiative) or IR (Integrated Reporting) or SASB (Sustainability Accounting Standards Board) for disclosing City's sustainability performance • Affiliation with Global programmes like Compact of Mayors by CDP (Carbon Disclosure Project) and UN Habitat, UN Sustainable Development, ICMA (International City/County Management Association) etc. • Partnering with Cities under Sister Cities Program or United Nations Office for South-South Cooperation 	Director Corporate Services

5.2 Performance Indicators

The Key Indicators that can be derived out of the above mentioned actions are as follows:

Goal	Indicator	Aspirational Targets
Reduce Carbon Emissions	• Reduction in GHG emissions across the City	• 48% on 2005-06 Levels by 2025
Sustainable Energy Management	• Reduction in Energy Consumption	• 50% reduction from 2005-06 levels by 2025
	• Increase in Renewable Energy Generation Capacity	• 100kW per year in next 3 years
	• Reduction in Fuel Consumption for vehicles used in City's Operations	• All Low Emissions Vehicle (LEV) for light vehicles fleet by 2025 with 50% of them being powered by renewable energy sources. • 100% Hybrid trucks for Waste Collection by 2025 • Other trucks & fuel consuming equipment used in operations to be 100% powered by renewable alternative fuels by 2025
Sustainable Water Management	• Reduction in Scheme Water Consumption	• 40% reduction from 2005-06 levels by 2025
	• Increasing efficiency in consumption of Abstracted Ground Water	• 10% increase in efficient than 2015-16 levels by 2025
Sustainable Waste Management	• Reduced Waste Generation	• 50% reduction by weight by 2025
	• Increase Organisational Waste diversion from landfill	• 50% reduction by weight by 2025
Focus on Life Cycle	• Total Value Analysis model developed by 2018	
	• Procurement decisions based on total value analysis	• 100% procurement decisions based on total value by 2025
Demonstrating Sustainability Leadership	• Adoption of an International sustainability reporting framework by FY 2017-18	

The targets mentioned in the table above are aspirational and subject to review as more information is available and new technologies get developed and matured.

Monitoring of progress of actions and performance indicators

6.1 Monitoring of actions and performance indicators

The existing environmental report (in Interplan) shall be updated based on the performance indicators identified in this plan once they are finalised and endorsed.

Goal	Indicator	Current Status	2016-17
Reduce Carbon Emissions	Reduction in GHG emissions across the City	Scope 1&2 emissions of the City for the Year 2015-16 are 7,050 t CO ₂ e which is 3% less than 2014-15 level	Reduction by 3% on Scope1&2 emissions from 2015-16 level
Sustainable Energy Management	Reduction in Energy Consumption	In 2015-16 the city consumed 6061 MWh of electricity and 4101 GJ of Gas	Reduction of Electricity consumption by 10% from 2015-16 levels
	Increase in Renewable Energy Generation Capacity	100kW Solar PV Project at Civic centre Solar Hot Water Project at Leisure Fit Booragoon	Additional 100kW capacity installed
	Reduction in Fuel Consumption for vehicles used in City's Operations	The Light Fleet Vehicle strategy is under review	Procurement of Low Emission Vehicles for the Office Car Pool
Sustainable Water Management	Reduction in Scheme Water Consumption	Scheme Water consumption across the City for the year 2015 is 122629 kL which is 11% less than 2011 level but 8% more than 2014 level.	No increase from 2014 level of consumption
	Increasing efficiency in consumption of Abstracted Ground Water	In 2014-15 the city consumed 2140959 kL of Groundwater which is 4% less than 2013-14 levels but 8% more than 2010-11 level	No increase from 2014-15 level of consumption and development of Action Plan to improve consumption efficiency
Focus on Life Cycle	Total Value Analysis model developed by 2018	No such model exists	To conduct the analysis for understanding the material parameters for developing the model
Demonstrating Sustainability Leadership	Adoption of an International sustainability reporting framework	Sustainability reporting on any international framework is not currently undertaken as a separate activity	Reviewing the applicability of available Frameworks and designing frameworks to adopt

It is recommended that the following performance indicators be included into the Business Review Meeting and the marked ones to be a part of Executive Performance Report (EPR):

2017-18	2018-19	EPR
Reduction by 5% Scope1&2 emissions from 2016-17 level	Reduction by 5% Scope1&2 emissions from 2015-16 level	*
Reduction of Electricity consumption by 5% and Gas consumption by 2% from 2016-17 levels	Reduction of Electricity consumption by 5% and Gas consumption by 2% from 2017-18 levels	*
Additional 100kW capacity installed	Additional 100kW capacity installed	*
Developing Infrastructure for Supporting Electric Vehicles		
1% reduction compared to 2014 level	1% reduction compared to 2017-18 level	*
3% improvement in groundwater abstraction and consumption efficiency by as compared to 2014-15 levels	3% improvement in groundwater abstraction and consumption efficiency by as compared to 2017-18 levels	
Developing the Model and conducting pilot study to evaluate its applicability	Deploying the Model across organisation and providing training for its application and use	
Adopting the Reporting framework for Corporate Sustainability and reporting against it for the Year 2017-18		



Climate change is viewed as one of the largest long term risks to the health of parks, reserves and natural areas (the highest community aspiration). Mitigation of the impacts of climate change is critical to minimising climate change impacts. The City must play its part in minimising greenhouse gas emissions. The Urban Forest Strategy is also a key element of increasing climate change resilience. Groundwater abstraction is included as availability of this resource is critical to meeting irrigation requirements of public open spaces. It is critical that the sustainability of this resource be understood and an appropriate target established.

An environmental scorecard shall be established based on all indicators. This scorecard shall be used in the City's Annual Report to communicate progress to the community against these indicators based on a traffic light system. Additionally in the Annual Report descriptions of progress against key actions shall be included e.g. renewable energy or energy efficiency actions. Auditing of data should be undertaken prior to being released.



Review

7. Review

A minor review of this plan shall be conducted annually as part of the annual management review process with a special focus on the Action Plan. A major review shall be undertaken every five years or earlier if deemed necessary. The roadmap shall be updated more frequently which will occur in Interplan.

It is recommended that the scope of this plan be revisited in future CESP iterations to incorporate the entire municipality which is consistent with the approach taken by other local governments.

8. References

- 1. 2015 Wellbeing Survey, City of Melville & Catalyse 2016 Perception Survey, City of Melville
- 2. People Places Participation, Strategic Community Plan City for the City of Melville, 2016-2026
- 3. The City of Melville Corporate Business Plan, 2016-2020
- 4. Australia's 2030 climate change target, 2015, Dept. of Environment and Energy, Commonwealth of Australia
- 5. Green Building rating system, GBCA
- 6. NABERS rating system, OEH, Government of New South Wales
- 7. Environment Protection Act 1986 (WA)
- 8. Local Government Act 1995 (WA)
- 9. Environmental Protection (unauthorised discharges) Regulations 2004
- 10. Swan and Canning Rivers Management Act 2006
- 11. Waste Avoidance and Recovery Act 2007
- 12. Environmental Protection and Biodiversity Conservation Act 1999
- 13. Western Australian Waste Strategy, Department of Environment Regulation
- 14. Water Forever: Towards Climate Resilience 50 year plan, October 2009, Water Corporation
- 15. Water Forever Whatever the weather - Drought-proofing Perth 10 year plan, Water Corporation
- 16. Water Quality Improvement Plan Swan Canning Rivers, Department of Water
- 17. Swan Canning River Protection Strategy, Department of Parks and Wildlife
- 18. Corporate Environmental Management Framework



Origin/Authority

Name of Council Meeting/Internal Meeting/Officer:
Executive Management Team Meeting

Date of Meeting:
17 August 2016

References









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