

**REPORT TO CLIMATE CHANGE ADVISORY COMMITTEE ON THE TOPICS
REFERENCED IN COUNCIL RESOLUTION 110810**

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Date: 12 April 2011

Climate Change Strategy

Sustainability Services are currently preparing a Climate Change Strategy Action Plan for Council's consideration in due course, with the "*Principles for Managing Climate Change in the Shire of Denmark*" (July 2009) being the initial guiding document.

Incorporation of the Requirement for Low Energy Public Street Lighting into Council's Guidelines for Development and Subdivision of Land

This issue has recently been discussed with the A/Director of Infrastructure Services and developers are currently being requested to provide for low energy public street lighting when street lighting is required to be provided as a condition of subdivision approval.

Request to Western Power, Via South Coast Power Working Group, to Ensure All New or Replacement Installations of Public Street Lighting is Low Energy Lighting

Refer attached "Streetlights Bulletin" published by Western Power which references low energy lighting replacement installation regime that commenced in January 2011.

In terms of new installations, Western Power fully supports Council's requesting the installation of low energy public street lighting at subdivision stage.

Need for Coastal Inundation and Erosion Strategy

The Director of Planning & Sustainability is currently liaising with Dr Robert Kay from Coastal Zone Management to undertake a Briefing Session with Council (including the CCAC members) and relevant staff in relation to coastal zone assessment impacts and a project that he is currently working on for the City of Mandurah in relation to a coastal zone setback vulnerability assessment.

Preparation of a Local Planning Policy: Rainwater Tanks

Local Planning Policy No. 40: Rainwater Tanks and Greywater Re-Use Systems was adopted by Council in June 2010. This Local Planning Policy provides guidance on the approval processes and development standards that would apply to those landowners/developers proposing to incorporate rainwater tanks and greywater re-use systems within their development.

The key issue referenced in Council's resolution pertains to considering the incorporation of rainwater tanks to be installed on different sized and zoned properties in the Shire. In the coming months Planning Services will be undertaking a review of all Local Planning Policies to ensure they are consistent with the direction that Council is pursuing, as well as ensuring compliance with the necessary statutory provisions and current day requirements, thus this issue will be incorporated for consideration at that time.

Preparation of a Local Planning Policy: Renewable Energy Systems

Local Planning Policy No. 41: Renewable Energy Systems was adopted by Council in June 2010. This Local Planning Policy provides guidance on the approval processes and development standards that would apply to those landowners/developers proposing to incorporate renewable energy systems within their development.

The key issue referenced in Council's resolution pertains to considering the incorporation of renewable energy systems to be installed on different sized and zoned properties in the Shire. In the coming months Planning Services will be undertaking a review of all Local Planning Policies to ensure they are consistent with the direction that Council is pursuing, as well as ensuring compliance with the necessary statutory provisions and current day requirements, thus this issue will be incorporated for consideration at that time.

Review of Local Planning Policy No. 33: Energy Efficiency Subdivision Design and Residential Building Design

This Local Planning Policy was adopted by Council in September 2001. Since the adoption of the Local Planning Policy there have been major changes to the Building Code of Australia requiring energy efficient provisions be incorporated into residential building design and the Western Australian Planning Commission's Liveable Neighbourhoods document has also been reviewed/updated having regard to sustainability principles in relation to subdivision orientation, thus the policy is in dire need of review.

In the coming months Planning Services will be undertaking a review of all Local Planning Policies to ensure they are consistent with the direction that Council is pursuing, as well as ensuring compliance with the necessary statutory provisions and current day requirements.



WESTERN POWER STREETLIGHT RANGE ADJUSTMENTS: NEW 42 WATT COMPACT FLUORESCENT (42W CFL)

Recently Western Power, City of Amadale and Synergy completed a trial of the 42W CFL and a review of a number of different streetlight technologies with a key focus on energy efficiency. It was found that the 42W CFL were reliable, accepted by the public and were technically compatible for wide-spread installation as an energy efficient replacement for the 80W mercury vapour (MV).

From this, Western Power is working to introduce the 42W CFL from January 2011 into the Western Power streetlight range. The following three luminaire (streetlight head) styles will be available:



Suburban Eco



Bourke Hill



Kensington

Western Power will use the maintenance programs to reactively change existing compatible streetlights to the 42W CFL only where luminaires (streetlight heads) are found to have failed and cannot be repaired.

In addition to this, Local Governments can now request for working streetlights to be changed through a Customer Funded upgrade. For more information on this see:

<http://www.westernpower.com.au/iga/Streetlights.html>

Western Power continues to rationalise its stock and keep handling and replacement costs as low as possible. With the introduction of the 42W CFL, the existing luminaires for equivalent lamp types will no longer be available, this includes:

1. 80W mercury vapour (MV) lamps
2. 70W metal halide (MH) lamps, and
3. 70W high pressure sodium (HPS) lamps

The 42W CFL will not be used to replace the 125W mercury vapour (MV) lamps.

Please contact Wendy Barton if you have any questions.

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REPORT TO CLIMATE CHANGE ADVISORY COMMITTEE ON WALGA REPORTING PLATFORM AND THE GREENSENSE VIEW DASHBOARD
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Date: 12 April 2011

WALGA Reporting Platform

Background

The WALGA Reporting Platform (RP) enables participating local governments to track and report their greenhouse gas emissions, energy consumption and energy production. It is a complete greenhouse gas accounting system that follows the methods and factors of the National Greenhouse Accounts Factors and is suitable for reporting under the *National Greenhouse and Energy Reporting Act*, the National Carbon Offset Standard and the Greenhouse Gas Protocol (ISO 14061.1). The RP is provided as a hosted service by Greensense Climate Change Consulting.

In March 2010 the Shire of Denmark signed up to the RP as the Cities for Climate Protection (CCP) program, of which the Shire of Denmark was a participating member, was retracted in June 2009 by the Federal Government due to a reduction in funding.

Progress Update

The GGE inventory for 2007-08 has been converted from CCP data and has been inputted into the RP which will enable a comparative data analysis to be completed once the 2008-09 inventory is completed.

In regards to the GGE inventory data for 2008-09, the majority of components have now been completed however the fuel component is still required to be finalised. Work on obtaining the data for the fuel component for fleet vehicles of the GGE inventory is currently underway and is expected to be completed by end of April 2011.

In relation to the GGE inventory for 2009-2010, 2010-2011 and the comparative data analysis components, the Director of Planning & Sustainability has prepared a budget submission for the 2011/2012 budget deliberations process for these projects to be undertaken (\$2000 for GGE Inventory Work; \$3000 for miscellaneous climate change/sustainability projects – i.e. GGE Comparative Analysis Project; Climate Change Strategy Development and Carbon Neutrality Reduction Target Action Plan; Waterwise Shire etc).

Greensense View Dashboard

The Greensense View Dashboard (herein after referred to as the “Dashboard”) is an online website which shows live real-time data of electricity consumption used via connection to smart meters (refer Figure 1 for snapshot of the website). The Shire’s dashboard, which was recently installed, relates to the Administration Building only and is to incorporate the 25% natural power that the Shire contributes from its energy consumption, as well as the percentage of renewables contributing to our energy usage such as the photovoltaics (NB: officers are still to provide details on the approximate value for the total kWh generated by the photovoltaics since installation).

The Shire’s dashboard can currently be accessed on the web via the following link:

www.dashboard.greensense.com.au/shireofdenmark/adminbuilding .

In due course a link will be provided on the Shire’s website.

Figure 1: Snapshot of Shire of Denmark's Dashboard

