

AGENDA

Sustainability Advisory Committee

MEETING OF THE SUSTAINABILITY ADVISORY COMMITTEE

TO BE HELD ON

MEETING DATE



THURSDAY 19 JULY 2007

commencing at 6 pm

in Conference Room 3

JOONDALUP CIVIC CENTRE,
BOAS AVENUE, JOONDALUP



GARRY HUNT
Chief Executive Officer
13 July 2007

www.joondalup.wa.gov.au

CITY OF JOONDALUP

Notice is hereby given that a meeting of the **SUSTAINABILITY ADVISORY COMMITTEE** will be held in Conference Room 3, Joondalup Civic Centre, Boas Avenue, Joondalup on **Thursday 19 July 2007** commencing at **6 pm**.

GARRY HUNT
Chief Executive Officer
13 July 2007

Joondalup
Western Australia

AGENDA

Committee Members

Cr Michele John	Presiding Person
Cr Sue Hart	
Cr Steve Magyar	
Cr Russ Fishwick	
Mr Will Carstairs	Community Rep
Ms Melanie Barter	Edith Cowan University
Ms Ute Goeft	PhD Candidate, Edith Cowan University
Mr John Willett	Community Rep
Mr Brett Dorney	West Coast TAFE
Ms Wendy Herbert	Community Rep
Vacant	Community Rep

Terms of Reference

- *To recommend to the City of Joondalup Council on policy, advice and appropriate courses of action that promote sustainability, which is (1) environmentally responsible, (2) socially sound and (3) economically viable*
- *To provide advice to Council on items referred to the Committee from the City of Joondalup administration*

DECLARATION OF OPENING

APOLOGIES/LEAVE OF ABSENCE

CONFIRMATION OF MINUTES

MINUTES OF THE SUSTAINABILITY ADVISORY COMMITTEE HELD 24 MAY 2007

RECOMMENDATION

That the minutes of the meeting of the Sustainability Advisory Committee held on 24 May 2007 be confirmed as a true and correct record.

ANNOUNCEMENTS BY THE PRESIDING PERSON WITHOUT DISCUSSION

DECLARATIONS OF INTEREST

IDENTIFICATION OF MATTERS FOR WHICH THE MEETING MAY SIT BEHIND CLOSED DOORS

PETITIONS AND DEPUTATIONS

REPORTS

Item 1	Oil Depletion Protocol	Page 4
Item 2	Sustainability Projects	Page 8
Item 3	City of Joondalup Environment Plan 2007-2011	Page 11
Item 4	Introduction of Five Star Plus	Page xxxx

MOTIONS OF WHICH PREVIOUS NOTICE HAS BEEN GIVEN

REQUESTS FOR REPORTS FOR FUTURE CONSIDERATION

CLOSURE

ITEM 1 OIL DEPLETION PROTOCOL [00906]

WARD: All

RESPONSIBLE DIRECTOR: Mr Ian Cowie
Governance and Strategy

PURPOSE

To provide information to the Sustainability Advisory Committee (SAC) about the Oil Depletion Protocol.

BACKGROUND

At its meeting of 29 March 2007 the Sustainability Advisory Committee requested that a report be presented outlining details of the Oil Depletion Protocol and whether or not the City of Joondalup should adopt the protocol. This report was presented to the May SAC meeting where the decision was made to defer the report for consideration at this meeting.

The Oil Depletion Protocol arises from the concept of Peak Oil which was first proposed in the 1950s. It refers to the fact that global oil production will reach a maximum level of production (i.e. its peak) at some point in the future, after which a steady decline will occur and the world will need to adapt its lifestyles in line with declining annual oil supplies.

Forecasts for the timing of Peak Oil range from now until 2030. Research suggests that currently one barrel of oil is discovered for every five extracted.

The world will not run out of oil upon reaching Peak Oil as there are still many billions of barrels of petroleum available for extraction. However some Peak Oil groups and scientists predict there is the potential that, upon reaching Peak Oil, a domino effect of negative economic, societal and geopolitical consequences could occur, unless adequate mitigation measures are adopted.

Compounding the issue of Peak Oil is the impact of climate change and the imperative not to increase the use of coal to replace depleting oil where substitution is possible.

DETAILS

The Oil Depletion Protocol commits countries or organisations to reduce oil consumption by the world oil depletion rate. This equates to at least 3% per year. By reducing oil consumption it is hoped that the impacts of reaching Peak Oil will be softened and the increasing volatility in world oil prices will be reduced.

It is up to each signatory nation, region or organisation to develop alternative forms of energy to replace the amount of oil energy that has been reduced. As each signatory is unique, different combinations of alternative energy sources or savings will be necessary and conservation measures will vary across nations, regions and organisations.

The concept is for oil extracting countries to progressively reduce their extraction rates in line with their rates of depletion and for oil importing countries to progressively reduce oil imports in line with the worldwide depletion rate. New oil discoveries, if they are proven, would boost the available quota of oil available for use.

The Protocol will have the effect of creating a strong impetus to develop and market more fuel-efficient cars and enhance public transport systems. Technological advances to make large increases in fuel efficiency continue to be made, but at present there is little pressure for the market to take up this technology.

Issues and Options

The City of Joondalup has been a strong proponent of the sustainable use of resources and many actions have been undertaken to change the way the City does business. The City has already begun to seek fuel efficiencies and consequently, achieve reduced fuel consumption. The main vehicle the City has used to achieve progress in this area is International Council for Local Environment Initiatives (ICLEI's) Cities for Climate Protection program. Through this globally renowned program, the City is achieving progress in reducing not only its energy consumption but also its dependence upon oil.

Cities for Climate Protection Program

The City has been participating in the Cities for Climate Protection (CCP) program for over six years. The program is administered by the ICLEI in collaboration with the Australian Greenhouse Office and results in measurable and practical actions to reduce energy consumption (including fuel efficiencies).

The City recognises that in order to meet its target of a 20% reduction in greenhouse gas emissions by 2010, an ongoing commitment to energy reduction measures is required across its corporate operations, as well as the ongoing facilitation of community sector actions. Engagement with the community sector is an integral part of CCP.

Milestone 5 of the CCP program has recently been achieved by the City. This provided the opportunity to monitor, analyse and review the City's progress towards its 20% greenhouse gas emissions reduction target by the year 2010. It was found that emissions had reduced by 8% from the base year.

Council has resolved to continue the City's participation in the CCP program through CCP Plus. It is expected that continued participation will enable further substantial greenhouse gas emission reductions to be achieved by the City.

Some of the initiatives that the City of Joondalup has undertaken include:

- Adoption of the TravelSmart Program to encourage increased use of public transport, walking and cycling.

- Active encouragement of sustainable transport options for the community, for example the introduction of the CAT bus for inner City travel.
- Reduction in the size of the vehicle fleet
- Purchase of two hybrid cars last year with a further two budgeted for purchase this year
- Purchase of bicycles which are available for staff to use for travel to and from inner City business meetings
- Reduced the size of the Executive fleet
- Creation and ongoing revision and of a Bike Plan
- Geothermal heating for the swimming pool at Craigie Leisure Centre
- Participation in the Carbon Neutral program. (This program means that the City will provide an annual donation to the Western Australian not for profit group – Men of the Trees through its Carbon Neutral program and in return will have an average of 17 trees per vehicle planted across Western Australia. These trees will offset all the carbon emissions being produced by the City of Joondalup vehicle fleet).

The CCP program is based on setting targets and involves regular measuring of the City's progress against those targets. It should be noted that in administering this program there is a significant cost to set up, maintain, collect and analyse data required to meet targets.

The City has the following options:

1. Adopt the Oil Depletion Protocol and allocate resources, establish plans and implement systems and processes for implementing the Protocol and measuring progress. Discontinue the CCP program as there would be duplications in undertaking both initiatives.
2. Continue to support the ICLEI CCP program to reduce greenhouse gas emissions and not adopt the Oil Depletion Protocol.
3. Continue with the ICLEI CCP program but also adopt the Oil Depletion Protocol.

Link to Strategic Plan:

Outcome : The City of Joondalup is environmentally responsible in its activities.
Objective : 2.1 To plan and manage our natural resources to ensure environmental sustainability.
Strategies : 3.1.2 Further develop environmentally effective energy-efficient programs.

Legislation – Statutory Provisions:

Not applicable.

Risk Management Considerations:

The risk with introducing programs that establish targets is obtaining the resources required to achieve them.

Financial/Budget Implications:

There will be administrative costs in adopting the Protocol and monitoring consumption to achieve targets.

Policy Implications:

Not applicable.

Regional Significance:

Not applicable.

Sustainability Implications:

As energy is one of our most precious resources, good management can achieve improved future sustainability.

Consultation:

Not applicable.

COMMENT

Based on what the City is actively doing and achieving in regards to reducing its greenhouse gas emissions and oil consumption and in educating its staff and residents on such matters through the CCP program, it is believed that the City should continue to focus and develop these initiatives.

Given the population growth and subsequent infrastructure development that has occurred between 2000 and 2004, it is encouraging that the 2006 CCP Measures report indicated that the City has achieved a reduction in greenhouse gas emissions of 8%. The City's recycling of plant debris was a major contributor to the 2004 corporate greenhouse gas abatement, highlighting the importance of this initiative.

ATTACHMENTS

Not applicable.

VOTING REQUIREMENTS

Simple majority

RECOMMENDATION

That the Sustainability Advisory Committee NOTES this report on the Oil Depletion Protocol and RECOMMENDS to Council that the City continues with its participation in the ICLEI CCP Plus program.

ITEM 2 SUSTAINABILITY PROJECTS [00906]

WARD: All

RESPONSIBLE DIRECTOR: Mr Ian Cowie
Governance and Strategy

PURPOSE/ EXECUTIVE SUMMARY

To seek advice from the Sustainability Advisory Committee (SAC) on suitable sustainability projects for Council's consideration.

DETAILS

At the Council Meeting held on 19 June 2007 the following motion was carried:

- "1 Council SEEKS ADVICE from the Conservation Advisory Committee, the Sustainability Advisory Committee and the Seniors Interests Advisory Committee about projects, which could enhance the City's economic, social and environmental sustainability
- 2 Once projects are identified, it is REQUESTED that the Chief Executive Officer prepare reports on the issues for further consideration by the relevant advisory committee before referral on to Council."

Issues and options:

The SAC has considered many issues since its inception and the following is an overview of some of those topics, which may assist the committee in its deliberations in addressing its request from Council.

- Key Performance Indicators for Sustainability
- Sustainable Vehicle Fleets
- Acid Sulphate Soils
- Public Participation
- Resource Recovery
- Sustainability Assessment in Council Reporting
- State of Environment Reporting
- Water Usage at City of Joondalup
- ICLEI Water Campaign
- ICLEI TBL capacity building program
- Water Grants
- Peak Oil
- Grey Water
- Bike Plan
- Rainwater Tanks

Sustainability topics that have currency and have not been previously considered by the SAC may include: -

- Climate change
- Carbon trading
- Social sustainability
- Cultural sustainability
- Health and wellbeing
- Economic sustainability
- Integrated transport
- Environmental risk planning
- Community capacity building

Link to Strategic Plan:

The City's vision is to be a sustainable City and community.

Legislation – Statutory Provisions:

Not applicable.

Risk Management Considerations:

Not applicable

Financial/Budget Implications:

Not applicable

Policy Implications:

Sustainability is guided by Council Policy 1.3 and City Policy 5.4.

Regional Significance:

Not applicable

Sustainability Implications:

Not applicable.

Consultation:

Not applicable

COMMENT

The SAC during its deliberation may wish to seek advice from officers with respect to projects and plans currently being undertaken by the City to minimise the potential for duplication.

ATTACHMENTS

Nil

VOTING REQUIREMENTS

Simple majority

RECOMMENDATION

That the Sustainability Advisory Committee SELECTS potential sustainability projects for further reporting.

ITEM 3 CITY OF JOONDALUP ENVIRONMENT PLAN 2007-2011 [28601] [00906]

WARD: All

RESPONSIBLE DIRECTOR: Mr Ian Cowie
Governance and Strategy

PURPOSE

For the Sustainability Advisory Committee (SAC) to review the Draft City of Joondalup Environment Plan 2007-2011 and provide advice and comments on the Plan for consideration by Council.

EXECUTIVE SUMMARY

This report provides information on the Draft City of Joondalup Environment Plan.

It is recommended that SAC provide advice and comments on the Plan for consideration by Council.

BACKGROUND

At its meeting on 22 May 2007, Council resolved (*CJ085-05/07 refers*), to:

“REQUESTS the City’s Conservation Advisory Committee and Sustainability Advisory Committee to review the Draft City of Joondalup Environment Plan 2007-2011 and provide advice and comment on the Draft Plan to Council”.

This report seeks to address the request outlined in the abovementioned recommendation.

DETAILS

Development of the City of Joondalup Environment Plan began in early November of 2006. The development process included:

- General research of similar Plans adopted by other local governments
- Development of a structure for the Plan
- Preliminary meetings with relevant Business Unit Managers to obtain ideas that would inform the eventual content of the Plan, on a cross-organisational basis
- Development of draft actions and strategies for inclusion in the Plan
- The facilitation of an “Environment Plan Workshop” with attendance of staff across the organisation to comment upon the aforementioned actions and strategies
- Continued liaison with staff after the workshop to assist in revising the Plan’s actions and strategies
- Drafting of the Plan
- Consideration of the Draft Plan at the March Council Strategy Session
- Amendments made to the Draft Plan

The final draft of the Environment Plan considers the five focus areas of land, water, air quality, biodiversity and waste management over a four-year span. Each focus area includes an overarching objective, introductory comments and an outline of previous achievements, actions and strategies table and an additional table that summarises significant strategic objectives across the spheres of Government.

Four assumptions are used to underpin the actions and strategies contained in the focus area tables of the Plan. These assumptions relate to the themes of: partnerships, education, regular reviews and effective implementation. The key environmental project for the City, (the construction of a Yellagonga Regional Park Environment Centre), encompasses all four of these assumptions and seeks to represent a pinnacle for environmental achievement within the Environment Plan.

The City's Sustainability Policy 5-4 will guide the implementation of the Plan and a review schedule and reporting mechanism is incorporated as the Plan's conclusion.

Link to Strategic Plan:

Key Focus Area: Caring for the Environment

Outcome : The City of Joondalup is environmentally responsible in its activities.

Objectives : 2.1: To plan and manage our natural resources to ensure environmental sustainability.

2.2: To manage waste effectively and efficiently in alignment with environmentally sustainable principles.

Legislation – Statutory Provisions:

Not applicable.

Risk Management Considerations:

Not applicable.

Financial/Budget Implications:

Not applicable.

Policy Implications:

The City's policies relating to the environment will need to be reviewed following the implementation of the Environment Plan, to ensure consistency.

Regional Significance:

Many regional partnerships will be developed or reinforced through the Environment Plan's implementation.

Sustainability Implications:

The Environment Plan will assist in providing an overarching framework for specific City environmental strategies and actions with the aim of ensuring environmentally sustainable management of the City's natural assets.

Consultation:

It is proposed that the Draft Plan be considered by CAC and SAC, as the City's advisory committees with a specific interest in environmental issues, before being formally adopted by Council.

COMMENT

Not Applicable.

ATTACHMENTS

Attachment 1 Draft City of Joondalup Environment Plan 2007-2011.

VOTING REQUIREMENTS

Simple Majority.

RECOMMENDATION

That the Sustainability Advisory Committee provides advice and comment on the Draft City of Joondalup Environment Plan 2007-2011 to Council.

ITEM 4 INTRODUCTION OF FIVE STAR PLUS [00906]

WARD: All

RESPONSIBLE Ian Cowie
DIRECTOR: Governance and Strategy

PURPOSE

To provide information to the Sustainability Advisory Committee (SAC) on the recent introduction of new energy and water efficiency codes known as Five Star Plus.

EXECUTIVE SUMMARY

This report provides information on the new building initiative, Five Star Plus.

It is recommended that the SAC notes this report.

BACKGROUND

At its meeting on 24 May 2007 the SAC requested that a report on the new energy and water codes be presented to a future meeting.

DETAILS

In May 2007 the Minister for Housing and Works, Michelle Roberts announced that new energy and water codes known as Five Star Plus would apply to all new houses approved for construction after 1 September 2007.

Five Star Plus is a new standard for sustainable housing in Western Australia that will improve water and energy efficiency in homes. It is based around two new codes: the Water Use in Houses Code and the Energy Use in Houses Code (see attachment 1).

The first stage of Five Star Plus will see new requirements for low-greenhouse hot water systems and a range of water efficiency measures including;

- Solar, five star rated gas or heat pump hot water systems
- Water efficient shower heads
- Water efficient tap fittings in all kitchen sinks, bathroom vanities and basins
- Water efficient dual flush toilets
- Pool blankets for all new swimming pools.

The second stage of Five Star Plus will be introduced in 2008 and will require house designs that provide for the later addition of water supplies and grey water diversion systems.

It has been estimated that integrating Stage One Five Star Plus requirements into a house design would add less than \$1000 to construction costs. Those building new

houses should be able to offset these costs with ongoing savings in water and energy bills of up to \$750 per year.

Existing home owners do not need to comply with Five Star Plus, however householders can use the Codes to improve the energy efficiency in their home through their choice of appliances such as solar hot water systems, 5 star rated gas hot water systems and water saving shower heads.

Link to Strategic Plan:

Outcome: The City of Joondalup is environmentally responsible in its activities.

Objective: 2.1 To plan and manage our natural resources to ensure environmental sustainability.

Strategies: 3.1.2 Further develop environmentally effective energy-efficient programs.

Outcome: The City of Joondalup has well-maintained assets and built environment.

Objective: 3.1 To develop and maintain the City of Joondalup's assets and built environment.

Strategy: 3.1.2 Facilitate the safe design, construction and approval of all buildings and facilities within the City of Joondalup.

Legislation – Statutory Provisions:

Not applicable.

Risk Management Considerations:

Not applicable.

Financial/Budget Implications:

Not applicable.

Policy Implications:

Not applicable.

Regional Significance:

The Five Star Plus building initiative will apply to all new houses in Western Australia.

Sustainability Implications:

As water and energy are two of our most precious resources, good management of both can achieve improved future sustainability.

Consultation:

Frequently asked questions in relation to Five Star Plus are attached as attachment 2 to this report while attachment 3 provides information on Five Star Plus housing.

COMMENT

Nil.

ATTACHMENTS

- Attachment 1 Five Star Plus Energy Use in Houses Code, Water Use in Houses Code
- Attachment 2 Five Star Plus Frequently Asked Questions
- Attachment 3 Five Star Plus Build a better future with a 5 Star house

VOTING REQUIREMENTS

Simple majority.

RECOMMENDATION

That the Sustainability Advisory Committee NOTES the report on the new energy and water codes.

**APPENDICES FOR AGENDA OF
SUSTAINABILITY ADVISORY COMMITTEE**

ITEM	TITLE	APPENDIX	PAGE
Item 3	City of Joondalup Environment Plan 2007-2011	1	1
Item 4	<p>Introduction of Five Star Plus</p> <ul style="list-style-type: none"> • Attachment 1 – Energy Use in Houses Code • Attachment 2 – 5 Star Plus – Frequently Asked Questions • Attachment 3 – Build a better future with a 5 star house 	2	<p>30</p> <p>38</p> <p>39</p>