

11.2 Sustainable Development Attachments

ITEM NO	SUBJECT	PAGE
11.2.1	TELECOMMUNICATIONS INFRASTRUCTURE (PHONE TOWER) 95 LATCH ROAD, DEEPDENE	1
11.2.2	ENVIRONMENTAL MANAGEMENT FUND 2018-19	9
11.2.3	LOCAL ENERGY ACTION PLAN – FINAL ADOPTION	20

11.2 Sustainable Development

11.2.1 TELECOMMUNICATIONS INFRASTRUCTURE (PHONE TOWER) 95 LATCH ROD, DEEPDENE

Attachment 1 – Schedule of Submissions

**SCHEDULE OF SUBMISSIONS – «ApplicationNo»
Telecommunications Infrastructure (Phone Tower)**

95 (Lot 3947) Latch Road Deepdene

SUBMISSION NO.	SUBMISSION	SUMMARY OF COMMENTS	OFFICER COMMENT
1.	Conditional support	Conditional Support subject to visual impact assessment particularly in relation to Leeuwin Naturaliste Ridge guidelines & visual amenity requirements.	Comments about visual impact assessment are discussed in the agenda report. The proponent advises that the facility is located on cleared rural land well east of the Leeuwin-Naturaliste Ridge and does not require clearing of any natural vegetation. Its location on rural land 1.8 kms west of Bussell Highway and 2.2kms east of Caves Road minimises the impact on the visual amenity. The facility complies with the Policy's acknowledgement and support of the need for community infrastructure and services (PS 1.17).
2.	Support	Current coverage very poor & safety for fire and boating	Noted
3.	Support	On the basis of the coverage map we support the proposed tower in hope that our property does receive adequate signalling	Noted
4.	Support	In full support, hope it improves communication	Noted
5.	Support	Support	Noted
6.	Objection	<ol style="list-style-type: none"> 1. Why was this site chosen? 2. Why was the offer to have the tower not put out to any other land owners in the area? 3. Why is it located in this position on the site? The tower could have been placed 	<p>1 – 2. Forty four sites in the locality were considered for the proposal and ruled out for reasons including:</p> <ul style="list-style-type: none"> • the proposal is not a discretionary land use in the Leeuwin Naturaliste Ridge Landscape Amenity zone which occurs on some land parcels in the broader area; • unwillingness of the DBCA to consider the proposal on reserved land;

**SCHEDULE OF SUBMISSIONS – «ApplicationNo»
Telecommunications Infrastructure (Phone Tower)**

95 (Lot 3947) Latch Road Deepdene

SUBMISSION NO.	SUBMISSION	SUMMARY OF COMMENTS	OFFICER COMMENT
		<p>further down towards Chapman Road and closer to the home property where power is available.</p> <p>4. Why can't the tower be placed further into the middle of the property toward the rocky outcrop?</p> <p>5. A 70m tower would be an eyesore if erected close to the road.</p> <p>6. The land owner as the receiver of the compensation to have the tower therefore the tower should be located in proximity to the owner's dwelling not the neighbours.</p> <p>7. Negative impact on land prices.</p>	<ul style="list-style-type: none"> • restrictions arising due to restrictive covenants over other parcels of land zoned Rural Residential; and • lack of willingness on behalf of land owners of other potentially suitable sites. <p>3. The tower is proposed to be setback 120m from the eastern boundary and approximately 100m from the southern boundary. The proponent advises that the location of the site was determined based on a number of factors including the ability to achieve the best coverage with least impact on the community, visual amenity and ability to service the facility.</p> <p>4. The tower site has been chosen based on its ability to be serviced and maintained. The presence of the rock outcrop in the centre of the site contributes to the complexities of locating the tower in this portion of the lot.</p> <p>5. The tower is proposed to be setback 120m from the eastern road reserve which borders the Wadandi Track and provides access to a handful of lots in the vicinity. The view of the tower would be screened by stands of mature vegetation along the reserve. While a view of the tower would be provided from within the reserve it is interspersed with vegetation and would be well setback from the reserve.</p> <p>6. The tower will be visible from the dwelling on the site. With the exception of the top of the tower, the proposal will otherwise not be visible from surrounding dwellings (two dwellings located within</p>

**SCHEDULE OF SUBMISSIONS – «ApplicationNo»
Telecommunications Infrastructure (Phone Tower)**

95 (Lot 3947) Latch Road Deepdene

SUBMISSION NO.	SUBMISSION	SUMMARY OF COMMENTS	OFFICER COMMENT
			<p>360m and 660m of the proposed tower site which are screened by mature vegetation).</p> <p>7. Land values are not a planning consideration.</p>
7.	Objection	<p>The tower is not required as everyone in the area (Colyer Drive) has access to Telstra 4G/3G services. ¾ houses on the western side have minimum coverage which can be resolved with a booster antennae.</p> <p>The tower will benefit the caravan park and beach areas which is not required by families and children on holidays.</p> <p>Height of tower is excessive and out of character to the area (mature trees and natural beauty).</p> <p>If it must be installed, reduce the height and put it near a commercial area like the tavern or petrol station.</p>	<p>The need for the proposal is reflected in its inclusion in the Federal Government's Mobile Black Spot Program. The proponent advises that the program seeks to provide access to mobile coverage to regional and remote communities including the State's major regional highways. Emergency Service Organisations have the option to collocate their equipment to the proposed site to enhance emergency services delivery '<i>...a police officer can receive surveillance video feeds, and fire-fighters' emergency response times should be reduced...</i>'.</p> <p>In relation to this concern the proponent advises that the area has been identified by Telstra, and acknowledged by the Shire and the community in general, as an area lacking effective telecommunications coverage, in particular the Hamelin Bay area.</p> <p>Telecommunications coverage is an essential service for the community, businesses, tourists and emergency services.</p> <p>The height is required to provide maximum coverage to the surrounding area and the facility well removed from major arteries and development to reduce the visual impact.</p>
8.	Support with concerns	Support with concerns: oppose any significant damage to the rail reserve on Latch Road and any access for construction	The proposal does not involve any removal or damage to vegetation in the Wadandi Track reserve. Existing entry points to the site are proposed to be used for access and installation of the tower. No

**SCHEDULE OF SUBMISSIONS – «ApplicationNo»
Telecommunications Infrastructure (Phone Tower)**

95 (Lot 3947) Latch Road Deepdene

SUBMISSION NO.	SUBMISSION	SUMMARY OF COMMENTS	OFFICER COMMENT
		<p>& maintenance should use existing entry points to the paddock.</p>	<p>vegetation is required to be removed on site, in the access road or in the reserve to facilitate the development.</p>
9.	Objection	<p>Why has it been placed so far from the home on the site and close to the adjoining property boundary and our home.</p> <p>Concern about adverse aesthetic impact and microwaves transmitted.</p> <p>Visual impact will be to the land owners to the south but is proposed far away from the land owner's home.</p> <p>Other sites could be used e.g. sandpit off Caves Road opposite Karridale Cemetery.</p> <p>Adverse visual impact to the Wadandi Track and the users of the track.</p> <p>Health impact to the Karridale primary school.</p> <p>Adverse impact to land value.</p>	<p>See comments above regarding the location of the proposal and visual impact.</p> <p>Regarding health impacts, electromagnetic emissions (EME) are controlled and regulated by separate Federal Government legislation.</p> <p>The EME predictive report calculates that emissions at this facility are estimated to equate to a maximum of 0.09% (less than 1/1,000th) of the Australian Communications and Media Authority (ACMA) mandated public exposure limit.</p> <p>Notwithstanding, based on current research there are no established health effects that can be attributed to the low RF EME exposure from mobile phone base station antennas (Australian Radiation Protection and Nuclear Safety Agency).</p> <p>Regarding the location of the proposal site, a total of 44 sites were investigated and ruled out prior to the selection of the subject site.</p>
10.	Objection	<p>Tower should not be located close to neighbouring properties if its against their wishes.</p> <p>Concern about health impacts</p>	<p>Concern regarding health impacts are discussed above.</p> <p>The tower is proposed to be setback a minimum of 100m from the southern boundary and 120m from the eastern boundary. The site for the tower is well setback and screened to the two neighbouring dwellings to the south east. The tower is also proposed to be located 400m south of the existing dwelling on the site.</p> <p>The location of the tower is chosen based on the ability to install and service the facility and the associated costs involved. The proponent</p>

**SCHEDULE OF SUBMISSIONS – «ApplicationNo»
Telecommunications Infrastructure (Phone Tower)**

95 (Lot 3947) Latch Road Deepdene

SUBMISSION NO.	SUBMISSION	SUMMARY OF COMMENTS	OFFICER COMMENT
			advises that the location of the proposed facility has been carefully considered throughout the design stage including sufficient access to the development site for the purposes of maintenance.
11.	Objection	Object to the proposed location of the tower away from residences should be chosen (e.g. National Park). Health impacts are a concern.	See comments above.
12.	Support	Great to have reliable internet for work play and safety.	Noted
13.	Support	Needed for mobile internet reception for safety, work and play.	Noted
14.	Support	Improved reception is welcome for the public and safety.	Noted
15.	Objection	Tower should be in the centre of the land on which it is proposed & as far from neighbouring properties as possible. Visual impact should be borne by the land owner of the site & tower should not be located near property boundaries.	See comments above.
16.	Objection	Tower site is too close to neighbouring property boundaries. Health impacts from the tower (Telstra will not comment about this and it's a major concern).	See comments above.

**SCHEDULE OF SUBMISSIONS – «ApplicationNo»
Telecommunications Infrastructure (Phone Tower)**

95 (Lot 3947) Latch Road Deepdene

SUBMISSION NO.	SUBMISSION	SUMMARY OF COMMENTS	OFFICER COMMENT
		<p>There are dwellings along the Wardandi Track close to the proposed tower site and occupiers would be at risk.</p> <p>Why not put a tower on the hill in the National Park away from the population.</p> <p>Pollution and aesthetic impact.</p>	
17.	Indifferent	No comments	Noted
18.	Objection	<p>Adverse impact to the landscape values and amenity of the area and conservation value of the Turner Brook Catchment wetlands.</p> <p>Will be highly visible in the area with 'sweeping rural vistas' adjacent to a well used tourist travel routes (Chapman & Caves Roads & Rails to Trails track).</p> <p>We believe there is a rehabilitation and conservation management plan being prepared for the location to revegetate and protect the Turner Brook (Lower Catchment Landcare Group). School children visit the Turner Brook & it has wide community value.</p> <p><i>"We objected to the proposal last year to locate a tower half this height on the Leeuwin Naturaliste Ridge. This proposal was unanimously rejected due to the impact on landscape values. The current new position of the tower has landscape values held in high regard in our State with the addition of</i></p>	<p>See comments above regarding visual impact.</p> <p>The tower site is located 1.2km east of the Turner Brook. While the tower would be visible in the distance from Turner Brook it will not be visually prominent in the landscape foreground. The proponent advises, the proposed facility is located on privately owned, cleared rural land utilised for cropping and grazing. The subject land is approximately 15 metres higher than Turner Brook and surrounding wetlands. Accordingly, the proposed facility will not impact on the conservation value or visual amenity of Turner Brook.</p> <p>Regarding a proposal to locate a tower on the Leeuwin Naturaliste Ridge, an application was lodged for a telecommunications tower on Colyer Drive. This application was withdrawn due to complications arising from the restrictive covenant over the land.</p> <p>Each application is assessed on its merits based on the individual factors involved.</p>

**SCHEDULE OF SUBMISSIONS – «ApplicationNo»
Telecommunications Infrastructure (Phone Tower)**

95 (Lot 3947) Latch Road Deepdene

SUBMISSION NO.	SUBMISSION	SUMMARY OF COMMENTS	OFFICER COMMENT
		<p><i>high conservation values of the adjoining Turner Brook Wetlands..”.</i></p> <p>Approval would set a precedent for other telecommunication facilities in the future.</p>	
19.	Support	“We currently have NO mobile reception.	Noted
20.	Support	<p><i>“We are strongly in favour of this application. Secure mobile phone communications are vital in the (i) safety of residents in the event of a bushfire (ii) recreational fishermen operating out of Hamelin Bay and (iii) walkers on the Cape to Cape”.</i></p>	Noted

11.2 Sustainable Development

11.2.2 ENVIRONMENTAL MANAGEMENT FUND 2018-19

Attachment 1 – Sustainability Advisory Committee Meeting Minutes – 20
September 2018

Attachment 2 – Unsupported Applications

Sustainability Advisory Committee Meeting

MINUTES

FOR THE MEETING HELD ON
THURSDAY, 20 SEPTEMBER 2018
IN COUNCIL CHAMBERS / MAINBREAK,
WALLCLIFFE ROAD, MARGARET RIVER
COMMENCING AT 5.30PM

DISCLAIMER

The Council of the Shire of Augusta-Margaret River hereby advises that before taking any action on an application or a decision of the Council, any applicant or member of the public should wait for written advice from the Council.

**GARY EVERSHERD
CHIEF EXECUTIVE OFFICER**

ROLE OF THE COMMITTEE

To promote sustainable environmental practices within the Shire of Augusta Margaret River and across the community and to provide a forum for community representatives, Councillors and Shire officers to focus on sustainability issues.

OBJECTIVES OF THE COMMITTEE

- a) To advise Shire officers and Council how to increase community engagement with sustainable environmental practice.

- b) To advise the Shire officers and Council on sustainable environmental issues including:
 - Climate Change;
 - Transport and air quality;
 - Biodiversity;
 - The built environment;
 - Community information and engagement to increase sustainable practice;
 - Land and waterway degradation;
 - Water quality and conservation;
 - Waste management; and
 - Power generation and conservation.

- c) To identify strategies which increase real and sustainable behaviour change in residents, businesses and other members of the community (including tourists) to improve sustainability outcomes.

- d) To recommend to the Council policy, advice and appropriate courses of action which promote sustainability that is:
 - 1) Environmentally responsible;
 - 2) Socially and culturally sound; and
 - 3) Economically viable.

KEY PROJECTS IN 2017/18 RELEVANT TO SAC

The following key projects are consistent with Council endorsed Environmental Sustainability Strategy. These projects are recommended as the key projects for SAC to focus on in 2018/19. Shire officers will engage SAC during preparation of each of these projects.

GOVERNANCE

Environment Offsets Policy

Objective: Increase the size of the natural areas in the Shire, which have a high degree of protection.

Target/KPI: To be determined.

SAC input: Provide expert advice during review of the Local Planning Strategy.

Timeframe: Late 2017/18

Extractive Industry Feasibility Study

Objective: Direct operations to environmentally acceptable locations.

Target/KPI: To be determined

SAC input: Provide expert advice during review of the Local Planning Strategy.

Timeframe: Late 2017/18

Shire Waste Master Plan

Objective: Responsible waste management

Target/KPI

- 70% of waste received at disposal sites is diverted from landfill.
- 100% of organic material received at disposal sites is composted for reuse.

SAC input: Provide expert advice in shaping the Waste Master Plan.

Timeframe: October onward

FUNDING

Environmental Management Fund

Objective: Allocate approximately 1% of budget to internal and external projects through the EMF

Target/KPI: To be determined

SAC input: Assess internal/external projects for consideration through the EMF.

Timeframe: July – September 2018

COMMUNITY EMPOWERMENT

Increase the number of projects considered and reviewed by the SAC

Objective: Early engagement with SAC will provide valuable input towards key projects

Target/KPI: To be determined

SAC input: Provide expert advice during preparation of key projects.

Timeframe: All year

Local Energy Action Plan

Objective: Achieve emission reductions targets

Target/KPI

- 50% reduction in community emissions below 2006/07 per capita rates.
- 20% renewable energy generation by 2020.

SAC input: Provide input on community focussed LEAP actions.

Timeframe: All year

TABLE OF CONTENTS

AGENDA LISTING	SUBJECT	PAGE NO.
	Disclaimer	2
	Explanation of Abbreviations	3
	Order of Business (Table of Contents)	4
1.0	DECLARATION OF OPENING	6
2.0	APPOINTMENTS	6
3.0	ATTENDANCE	6
3.1	Apologies	6
4.0	PUBLIC QUESTIONS	6
5.0	DISCLOSURES OF INTEREST	6
6.0	CONFIRMATION OF MINUTES	6
6.1	Sustainability Advisory Committee Meeting 21 June 2018	6
7.0	REPORTS	7
7.1	Energy	7
7.1.1	Local Energy Action Plan	7
7.2	Biodiversity	7
7.2.1	EMF PROJECTS	
7.3	Water	7
7.4	Waste	8
7.5	Transport	8
7.6	Planning/Development	8
8.0	MATTERS ARISING FROM PREVIOUS MINUTES	8
9.0	GENERAL BUSINESS	8
10.0	NEXT MEETING	8
11.0	CLOSURE	8

Sustainability Advisory Committee Meeting

1.0 Declaration of Opening

5:32 pm

2.0 Appointments

Nil

3.0 Attendance

Committee Members

Mr Ken Collins
Mr Peter Little
Ms Katie Biggs
Mr Nick Dornan
Ms Lyn Serventy
Ms Laura Bailey

Council representatives

Cr Pam Townsend (observer)
Cr Naomi Godden
Cr Pauline McLeod (Acting SAC President)

Shire staff

Director Sustainable Development – Dale Putland
Acting Manager Planning and Development – Mr Matt Cuthbert
Waste Education and Project Officer – Ms Jackie Dixon (Minutes)

Members of public

Nil

3.1 Apologies

Mr Julian Kruger (President)
Cr Peter Lane
Ms Karen Majer (Deputy President)
Mr John Lawson

4.0 Public Questions

5.0 Disclosures of Interest

L. Serventy – Nature Conservation Margaret River Region, Transition Margaret River
L. Bailey – Transition Margaret River, Nature Conservation Our Patch, Independent School
N. Godden – Transition Margaret River
P. Little - Australian Citizen Science Association
K. Collins - Western Ringtail Possum

6.0 Confirmation of Minutes

6.1 Sustainability Advisory Committee Meeting 21 June 2018

MOTION / SAC DECISION

MOVED: N. DORNAN SECONDED: L. SERVENTY SAC

That the minutes of the Sustainability Advisory Committee meeting held 21 June 2018 be confirmed as a true and accurate representation of the meeting.

CARRIED 8/0

A correction to the above motion has occurred – see point 8 of minutes.

7.0 REPORTS

7.1 Energy

7.1.1 Review Local Energy Action Plan post advertising

Action: N. Godden requested a workshop to review the Local Energy Action Plan, with regards to the input from the Energise Margaret River Survey and submissions received. In particular, the workshop should focus on what potential partnerships there are between the Shire and community groups promoting energy efficiency initiatives. Shire Staff to set a workshop within 6 weeks.

7.2 Biodiversity

7.2.1 Review of Environmental Management Fund (EMF) projects

This will consist of the following discussion:

Internal EMF projects

Shire officers will discuss internal (Shire driven) EMF projects proposed to be delivered in 2018-19 financial year. These projects are valued at \$100,000.

External EMF grant projects

The SAC will review external EMF grant applications, and recommend to Council on projects to support, totalling a value of \$100,000.

Action: Suggest that all projects should engage with aboriginal stakeholders. Once funds are awarded, request that applicants report back on aboriginal engagement and show how they are building relationships with aboriginal stakeholders. Suggest that next year engaging with aboriginal stakeholders is a fully funded engagement process in each EMF application.

Action: Request that all applicants present their project to the SAC regarding next year's round of EMF funding.

Action: Staff to provide encouraging feedback to unsuccessful EMF applicants.

Action: Staff to investigate if Undalup can complete Mokidup on a reduced grant.

MOTION / SAC DECISION

MOVED: P. MCLEOD SECONDED: L. SERVENTY SAC

Recommend that Council fund the following grant applications through the Environmental Management Fund in 2017/18:

1. Mokidup (Stage One)	(\$7,200)
2. Feral pig control	(\$11,569)
3. Dieback wash-down	(\$3,800)
4. Water Education	(\$5,100)
5. Fire and Biodiversity	(\$5,800)
6. Donovan Street restoration	(\$9,889)
7. Our Patch	(\$11,226)
8. Environmental volunteering	(\$27,730)
9. Western Ringtail Possum project	(\$22,700)

CARRIED 8/0

7.3 Water

7.4 Waste

7.5 Transport

7.6 Planning/Development

8.0 Matters Arising from Previous Minutes

Summary of Sustainability Advisory Committee minutes from 21 June 2018.

RECOMMENDATION / COUNCIL DECISION

CR GODDEN, CR LANE OM2018/173

That Council:

1. Receives the unconfirmed minutes of the Sustainability Advisory Committee held on 21 June 2018; and
2. Notes that the minutes contain an error at 7.6.2, which will be changed as follows when the minutes are presented to SAC for confirmation at its next meeting:

“An update was provided to SAC on the Shire’s projected 2018/19 expenditure on environmental and sustainability related items, known as the Environmental and Sustainability Fund (ESF). The spreadsheet presented to SAC represents Shire officers assessment of planned expenditure equivalent to 3% of rate revenue, in line with Council endorsed Environmental Sustainability Strategy.”

CARRIED 8/0

9.0 General Business

Nil

10.0 Next Meeting

13 December 2018

11.0 Closure

Meeting closed 7:15pm

Unsupported EMF applications

The following grant applications received were not recommended for EMF funding:

1. Your Land, Your Future: A Small Landholders Workshop Series & Information Hub - Lower Blackwood Landcare Committee (\$43,125)

Small Landholder Workshop Series: This part of the project is a series of 4, seminar style, 1/2 day workshops covering the following critical land care topics:

- *Making the most of your land: Smart Property Design & Planning*
- *Staying Safe: Fireproofing your property*
- *Healthy Soils, Healthy Waterways, Healthy Landscape*
- *The Green Framework of your Land: Nurturing your remnant bushland & the art of revegetation.*

The second part of project is to build a comprehensive information hub as a 'go to' resource for small landholders in the region. Housed on the Lower Blackwood LCDC website, this will be a collection of carefully curated & developed relevant content.

Officer comments: Localised project, may not be relevant to the greater community. Good information but long term on ground outcomes are unclear. Significant cost of project for proposal.

2. Sustainability in Action: A Pilot Project - Margaret River Montessori School (funding sought - \$29,000)

This proposed project will run for a full school year, each term focusing on one of four Core Pillars; Water, Land, Waste and Energy. Three main elements (Sustainability Education, Strategy and Sustainability in Action) will be interwoven to reinforce existing sustainability-related initiatives and each term's Core Pillar.

Officer comments: Localised initiative. Good initiative. Other schools and programs i.e. Our Patch, Transition Margaret River have embarked on similar programs.

3. Mapping Environmental Assets of Water Systems in AMR Shire – L. Stocker (funding sought - \$21,275)

The first aim of this project is to develop accessible digital maps of environmental assets associated with waterways and water cycles, and to combine these with existing technical maps, in order to support the Shire planning processes, and promote environmental education and capacity building of the community, development of information materials and training. The second aim is to use Google Earth to provide an ongoing tool to plan for and manage the environmental assets of water systems and to enable a constructive interface between citizen science and the Shire's planning processes.

Officer comments: Overall objectives of the project are unclear. May duplicate existing Shire mapping system already developed.

4. Community Capacity Building on Dieback - Dieback Working Group Inc. (funding sought - \$27,000)

This learning experience will comprise a 2 day trip to Perth to interact, visit, see and talk to Pc experts in Perth government and tertiary institutions on the latest work being carried out, visit some local Pc infested reserves to see the effects of Pc infestation and its management and attend the all-day DIG conference to hear the latest information on Pc in WA.

Officer comments: Very important environmental issue, great information. Limited ability to apply on ground change. Uncertain of value for money.

5. Black cockatoo conservation – Nature Conservation MR (funding sought - \$5,000)

The project aims to increase the knowledge of how black cockatoos use the natural environment within the Margaret River region to assist decision-making about their conservation. The project will provide support to increase local community participation in the Great Cocky Count 2018 by assisting Birdlife WA with identification of additional roost sites, matching of volunteers to sites and eliminating any non performing roost sites. It will also implement a program of volunteer surveying at other times of year to identify spring nesting sites.

Officer comments:

Iconic threatened species, good community support. Preference given to western ringtail possum project.

11.2 Sustainable Development

11.2.3 LOCAL ENERGY ACTION PLAN - FINAL ADOPTION

Attachment 1 – Additional actions to be included

Attachment 2 – Actions to be deleted

Attachment 3 – Schedule of Submissions

Corporate sector

Proposed actions	Outcome	Cost (\$)
Install add-on features to the recently installed dehumidifier (Rec Centre) to improve energy efficiency.	Proposed energy reductions.	\$10k (18/19 budget)
Install solar PV installation (approx. 20kW in total) at the Augusta Civic Centre and Margaret River Shire depot following a structural assessment.	Expected to reduce emissions by approximately 30 tCO ₂ e' per annum, and electricity costs by approximately \$8,000 p/a.	\$25k (18/19 budget)
Continue to work with Planet Footprint (or similar) to manage the Shires energy and fuel data.	Provides an accurate inventory of Shire energy consumption.	\$6k (18/19 budget)
Install a 60kW (approx.) solar PV system on the roof of the new HEART project following review of projected energy consumption.	Reduce emissions by approx. 90 tCO ₂ e' per annum, and projected annual saving of \$24,000 (3 yr payback).	Approx. \$35k through HEART. Require approx. \$50k funding in 2019/20 budget.
Investigate installation of a 60-80kW (approx.) solar PV system addition at the Margaret River Recreation Centre or other Shire building following a detailed structural assessment and business case.	Reduce emissions by approx. 90 tCO ₂ e' per annum, and annual saving of \$24,000 to 32,000. Recommended through 2016 energy audit.	Approx. \$80k - \$100k or Power Purchase Solar Agreement (2020-21 following preliminary assessments).
Prepare individual energy audits for largest energy consuming Shire buildings. Implement outcomes of audits following a cost/benefit and energy efficiency analysis.	Provides valuable recommendations to reduce energy/costs.	Approx. \$4k per audit.
Prepare Council policy/guidelines to mandate inclusion of energy efficiency requirements and investigation of energy generation for new Shire buildings/additions, public open spaces, major developments etc.	Results in energy efficient design buildings, and improves heating/cooling levels.	TBD
Engage an electricity broker to negotiate new electricity contract, inclusive of solar installation opportunities.	Expected to reduce electricity costs. Savings used to invest in LEAP.	\$5,000 (every two years -currently being undertaken)
Investigate voltage optimisation services to reduce unnecessary electricity consumption at larger sites.	Optimise actual consumption requirements.	To be determined.
Investigate opportunities for installation of LED lighting in newly proposed subdivisions.	Benefits realised through reduced emissions from LED use.	To be determined.
Consideration of purchasing energy from a renewable facility if one is developed in the shire.		

Corporate targets

Proposed target

Reduce emissions generated from street lighting, or energy use in street lighting by 20% below 2006/07 per capita rates emission levels by 2020 2022.

Reason for change: LEAP currently uses per capita rates to measure street lighting opposed to total emissions as measured for buildings/vehicle fleet. Submissions disputed this method of measurement

as it was felt that it does not provide an accurate representation of total emissions generated, and does not reflect current international goals on emission reporting.

Community sector

Proposed actions	Outcome	Cost (\$)
Purchase thermal imagery camera to assist homeowners to detect areas of the home that are performing inefficiently.	Provide landowner with tools to improve energy efficiency.	\$1,000
Investigate opportunities for home energy audits.		
Utilise the Margaret River and Augusta libraries as a platform for environmental education to the wider community showcasing sustainability	Effective source to educate community (e.g low impact living program).	Internal resources
Provide administrative support i.e. promotion of events etc. to Transition Margaret River to educate the broader community on sustainability related matters.	Effective sources to educate community on energy efficiency.	Internal resources
Host annual seminars to promote renewable energy opportunities and energy efficient building strategies.	Promotes energy conservation and highlights efficient technologies.	\$5,000 (18/19 draft budget)
Include the latest information on the website/other sources on how to save energy at home, sustainable design, alternative transport and waste reduction/recycling opportunities, solar PV financing, bulk buy opportunities and progress on emission targets.	Effective source to educate community.	Internal resources
Review the Shire's Sustainable Design Policy to include solar PV installations for commercial buildings and residential subdivision.	Planning mechanism to increase renewables and solar passive design.	Internal resources
Implement Living Smart or alternative sustainability education course i.e. Low Impact Living workshops, on an annual basis, inclusive of a session on 'speed date a solar expert'.	Existing LEAP action amended, to consider a range of workshops that promote energy conservation.	Internal resources
Review the Dunsborough Community Energy project to see if it can be replicated in our Shire.		
Recommend that the Shire together with a wide range of local community groups across all sectors conduct a Climate Action Summit as a basis for a future Climate Change Action Plan that will replace LEAP as the primary driver for shared action and commitments to mitigation and adaptation measures into the future.	Develop community partnerships and an agreed pathway forward to reduce emissions.	Internal resources. Also \$25k in the 2018/19 budget to assist.

Community targets

Proposed target:

Assist community to reduce emissions, ~~or energy use~~ by 20% below 2006/07 ~~per capita rates~~ by 2020 emission levels by 2022.

Reason for change:

Submissions urged that emissions should be measured by total emissions rather than per capita.

Proposed target:

Encourage community to source ~~20~~ 25% of its energy from renewable energy sources by ~~2020~~ 2022.

Reason for change:

Submissions urged that a 10% uptake of renewable energy has already been met despite a low solar PV uptake, and therefore a higher target should be applied to reflect the projected increase in solar PV installation.

Actions to be removed (Corporate)

Action to be deleted	Reason
Install pool blankets to reduce heating requirements. (completed)	Completed
Replace pool heat pumps with energy efficient hydrocarbon refrigerant units. (completed)	Completed
Installed an airlock door at the front of the Shire administration building to reduce heat loss and gain. (completed)	Completed
Undertake an energy audit to determine the effectiveness of heat pumps and to identify alternative options to reduce energy consumption and costs. (completed)	Completed
Purchase a staff bicycle for site inspections. (completed)	Completed
Lobby Western Power to ensure that street lighting is not activated until 25% occupancy has been achieved in all new subdivisions. (completed)	Completed
Lobby Western Power for installation of smart lighting; including timers and sensors to better utilise lighting. (completed)	Completed

Actions to be removed (Community)

Action to be removed	Reason
Implementation of the RAC Electric Highway project.	Completed
Assist community in developing business case for renewable energy installations in residential areas, in particular providing information on Western Power regulations and financing options.	Provide information through website and newspaper.
Undertake more information sharing and promotion of initiatives to reduce energy consumption and emissions.	See above
Establish a collaborative project with energy providers and other local governments to assist business sectors to reduce energy and take up renewable energy.	See above

SUBMISSIONS	OFFICER COMMENTS	SAC RECOMMENDATION
<p>Recommendations provided by Transition Margaret River, AMRCCE and Lyn Serventy.</p> <p>1. Carbon Reduction Goals In setting ongoing targets LEAP needs to acknowledge that emissions have reduced as a result of a cleaner SW grid. This factor needs to be acknowledged in LEAP targets in both Corporate and Community sector targets.</p> <p>2. Corporate sector</p> <p>a) The corporate sector uses per capita emissions to measure street lighting. This is confusing as it is different to the way other corporate areas i.e. buildings, vehicle fleet are measured.</p> <p>b) The following target should be increased as it has already been met, and grid improvement is expected to continue. <i>Reduce emissions generated from street lighting by 20% below 2006/07 per capita rates by 2020.</i></p> <p>c) Add <i>‘Consideration of purchasing energy from a renewable facility if one is proposed to be constructed in the shire.’</i> As the corporate usage of electricity from the grid is large enough (and will remain so for some time) to make it a contestable customer, it has the option to purchase from a future renewable generator thus achieving reduction of emission charges, decreasing costs etc.</p> <p>3. Community sector</p> <p>a) LEAP Community goals are based on per</p>	<p>1. Agreed. This will be reflected in the revised LEAP document, and corporate and community targets.</p> <p>2. Corporate sector</p> <p>a) In 2014, Council passed a motion to measure community emissions based on per capita emissions as at 2006/07, rather than changes in emissions alone. This was adopted as it was agreed at the time that it would be difficult to meet community and street lighting emissions as local government has less control over energy management in these areas.</p> <p>b) As at 2017/18, street lighting has achieved a 21% reduction in emissions per capita since 2006/07. If SAC elects to measure by emissions alone, the officer’s recommendation is to adopt the following <i>‘reduce street lighting emissions by 20% by 2022’</i> (2022 date of next LEAP review). As at 2017/18, there has been a 5% increase in street lighting emissions since 2006/07 (removing per capita rate). The revised target requires a further 25% reduction by 2022. Increasing the target beyond 20% is not supported, as targets need to feel achievable.</p> <p>c) Noted and supported. This is a valuable inclusion to LEAP, and could have political, economic and environmental benefits.</p>	<p>1. Cleaner SW grid – we need to get some numbers to verify or dispute this. <u>Officer response:</u> This is reflected in the National Greenhouse Accounts Factors report. For the South West Interconnected System, the report identifies 0.76 kg CO2 in 2016/17 vs 0.96 in 2006/07 (LEAP base year).</p> <p>2 c) Support <u>Officer response:</u> Incorporated into LEAP.</p> <p>We need more focus on the corporate sector – maybe engage by promoting the cost savings to business. Some successful case studies would be valuable – maybe seek these as part of the Summit. <u>Officer response:</u> Recommend that Climate Action Summit be held to guide future direction in this area.</p>

<p>capita emissions. We need to acknowledge that the world goals are set on total emissions. LEAP should use the CCP total emission reductions to provide council and community with an accurate gauge on emission reductions.</p> <p>b) Given that a 10% uptake of renewable energy has already been met despite the low PV penetration, a higher target should be applied, exceeding the currently adopted target below: <i>'Assist community to generate 20% renewable energy generation by 2020'</i> Support for the AMRCCE project to provide wind and biogas facility in the shire may mean if the project is successful, that the community will have helped provide a reduction in electricity emissions of 50%.</p> <p>c) The 33% reduction in community emissions per capita to date has apparently come principally from increased efficiency in the SW grid and a relatively low percentage of residences in the shire that have installed PV. Since PV penetration is estimated to double again from the 2017 levels by 2020 and the SW grid is making changes to increase efficiency community sector targets should be increased beyond the target proposed below, or calculated as per CCP targets. <i>Assist community to reduce emissions by 50% below 2006/07 per capita rates by 2020.</i></p> <p>d) Alter to read <i>'Continue partnership with AMRCCE and Transition Margaret River to</i></p>	<p>3. Community sector</p> <p>a) Noted and supported. It is recommended that the way we measure emissions is based on world emission measurements.</p> <p>b) Solar PV generation is predicted to double by 2020 from current rates. On this basis, it is recommended that the current target be increased to <i>'25% residential renewable energy generation by 2022'</i>. An additional 15% generation is required over four years, which will require a strong sustainability/renewables education campaign. Any renewable energy generated from a commercial solar farm will be measured against the community target. This target is specific to roof top solar promotion.</p> <p>c) As at 2017/18, the Shire has achieved a 33% reduction in emissions per capita since 2006/07. If SAC elects to measure by emissions alone, the officer's recommendation is to adopt the following <i>'reduce community emissions by 20% by 2022'</i>. As at 2017/18, there has been a 10% reduction in community emissions since 2006/07 (removing per capita rate). The revised target requires a further 10% reduction by 2022. Increasing the target beyond 20% is not supported, as targets need to feel achievable.</p> <p>d) There is currently no formal partnership between the Shire and Transition Margaret River. Given that not all Transition projects relate to energy and LEAP, it is recommended that promotion of events</p>	<p>3b) Review the Dunsborough Community Energy project to see if is applicable here. They may expand the geographical scope if we are interested. <u>Officer response:</u> Recommended to be included in LEAP.</p> <p>3d) Support but note that the relationship with TMR was funded by EMF grant, and there has not been a bid to extend the Energise project this year.</p>
---	--	---

<p><i>educate the broader community on energy efficiency and renewable energy opportunities.'</i></p>	<p>rather than forming a partnership is the most applicable path forward.</p>	<p><u>Officer response:</u> See Officer Comments section 3d).</p> <p>Include 'speed date an expert' for advice on solar and battery technology – Library sessions and at Summit? <u>Officer response:</u> Include in proposed Low Impact Living Action. Summit to guide future outcomes.</p>
<p>South West Development Commission We wish to offer feedback in terms of embedding the targets into project management plans for major projects such as the Main Street Redevelopment and the HEART project. We acknowledge certain targets are outlined in the Action Plan, but just wondering if these are reflected as reporting requirements against individual projects to ensure planned outcomes align with LEAP targets.</p>	<p>Agree that it is important to ensure major redevelopments reflect LEAP objectives. It is recommended that the proposed LEAP action targeting buildings also ensure public open spaces, major developments etc. contain sustainability, renewable energy elements.</p>	<p>Agree. It is important that Council projects model best practice.</p>
<p>AMRCCE renewable energy survey results 1. Survey results</p> <ul style="list-style-type: none"> a) some groups are excluded from renewables; b) cost is a barrier to renewables for those on lower incomes; c) older community members perceive they don't have enough time to realise the cost benefit of purchasing renewables; d) a need for tenancy agreements to allow sharing benefit of renewables between owners and tenants and work towards incentivizing rental property owners into putting PV on their rental properties to 	<p>1. The proposed LEAP website portal and educational material will provide more information on the following:</p> <ul style="list-style-type: none"> a) Acknowledged, more information on incentives to be provided on website portal. b) See above. c) Provide easy to follow information on benefits, opportunities of solar PV. d) Shire could act as a supporting role, rather than initiate this incentive. e) Shire act as a supporting role to groups wishing to take this up i.e. contact details for local suppliers, info on different types of systems etc. Requirement for solar in new subdivisions, bulk purchase could be arranged by developer, in conjunction with support from the Shire. 	<p>Agree with officer recommendations subject to:</p> <ul style="list-style-type: none"> • Lease arrangements (rent solar panels and pay from energy cost savings) may be an alternative to bulk purchase. Shire could investigate 'deals' and make info available. • Updating the website is useful but only if it is used and promoted. Suggest TMR can assist. • Would like to see this expanded to include community shared battery storage from rooftop PVs – 'virtual power plants' <p><u>Officer response:</u></p>

<p>ensure those renting are not excluded from having access to renewables;</p> <ul style="list-style-type: none"> e) reducing cost of renewables through bulk purchase; f) the need to explore the benefits of battery systems through pilot(s); g) that renewables and/or energy efficient appliances be mandatory for new homes; h) people want general information on reducing energy consumption; dealing with shade/fluctuations in winter/alternatives to solar; retro-fitting alternatives and access to financial assistance for this; heating alternatives; information on PVs and batteries, choice, cost, cost/benefit, etc <p>2. Upgrading the Sustainability advice on the Shire website and advertising this in a framework of cost and environmental benefit, with web links to more technical information and local services, may be a cost-effective response.</p> <p>3. The relatively large number (41.7%) interested in a home audit suggests this may be a good strategy at a later date.</p>	<ul style="list-style-type: none"> f) Shire could investigate battery system with upcoming solar projects, and display results. g) This is only applicable for new subdivision areas, as these inclusions are at the cost of the individual landowner. Landowner needs to be aware what costs they are incurring before purchasing homes. The revised LEAP recommends similar requirements for new subdivisions. h) LEAP action to be revised to include this as specific information. <ul style="list-style-type: none"> 2. To be included as specific information on website portal and advertising, 3. This can be included as an investigation action. This will provide valuable information to landowners/tenants on energy awareness. 	<p>The proposed LEAP action on education/website information will address this information.</p>
--	---	---