



City of Fremantle



Fremantle as a living laboratory

Mayor Brad Pettitt



A living laboratory of 30,000 people



One Planet

Fremantle Strategy

2014/2015 – 2019/2020



The One Planet Principles

Zero carbon	making buildings more energy efficient and delivering all energy with renewable technologies
Zero waste	reducing waste, reusing where possible, and ultimately sending zero waste to landfill
Sustainable transport	encouraging low carbon modes of transport to reduce emissions, reducing the need to travel
Sustainable materials	using sustainable and healthy products, such as those with low embodied energy, sourced locally, made from renewable or waste resources
Local and sustainable food	choosing low impact, local, seasonal and organic diets and reducing food waste
Sustainable water	using water more efficiently in buildings and in the products we buy; tackling local flooding and water course pollution
Land and wildlife	protecting and restoring existing biodiversity and natural habitats through appropriate land use and integration into the built environment
Culture and heritage	reviving local identity and wisdom; support for, and participation in, the arts
Equity and local economy	creating bioregional economies that support fair employment, inclusive communities and international fair trade
Health and happiness	encouraging active, sociable, meaningful lives to promote good health and well being



Two key components

1. Infrastructure investment
2. Education and capacity building in community and sector



1% of
rates

We are one of the few councils in Western Australia that sections off a percentage of annual rates revenue to put entirely towards carbon reduction projects.





1. Renewable energy investment

**Fremantle is WA's first carbon neutral council.
Solar PV on almost all Council-owned buildings**



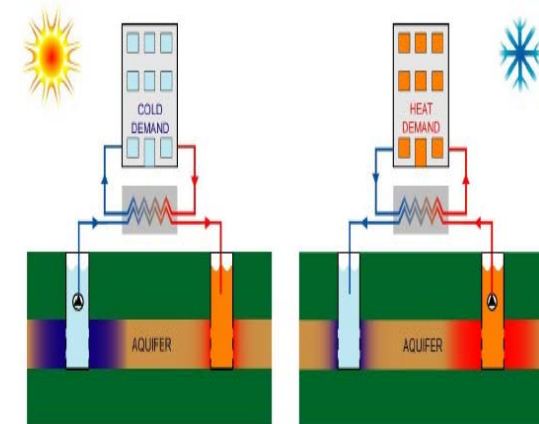
\$3.5m Geothermal/heat pump municipal pool heating/upgrade project





- **300kW closed geothermal heat pump draws water at 27°C from 160m below the ground.**
- **Water is re-injected at 22°C into the borefield.**
- **Geothermal supplies primary heating.**
- **76kWe cogeneration unit.**
- **Gas boost (winter)**

7-8 year pay back



Solar farm on South Fremantle Tip Site

- The landfill site covers 19.4 hectares, 88 per cent of it owned by Fremantle Council.
- The council is prepared to assign a 21-year peppercorn lease to potential developers or operators of the land.





2. Green buildings: key part of strategy

- Our Target: All buildings within the operational control of the City of Fremantle will be 'net zero carbon' by 2020**

Household scale - Josh's House in Hilton

10 star Nationwide House Energy Rating Scheme (NatHERS)
same cost and timeframe as normal house in Fremantle



All new commercial buildings 4 star Greenstar
All new city owned buildings at least 5 star Greenstar



COMMERCIAL & CIVIC PRECINCT



Good progress at commercial level

BUT

Time for demonstration of a sustainable multi-unit residential development



Bedzed U.K.



Freiburg





Lochiel Park, Adelaide

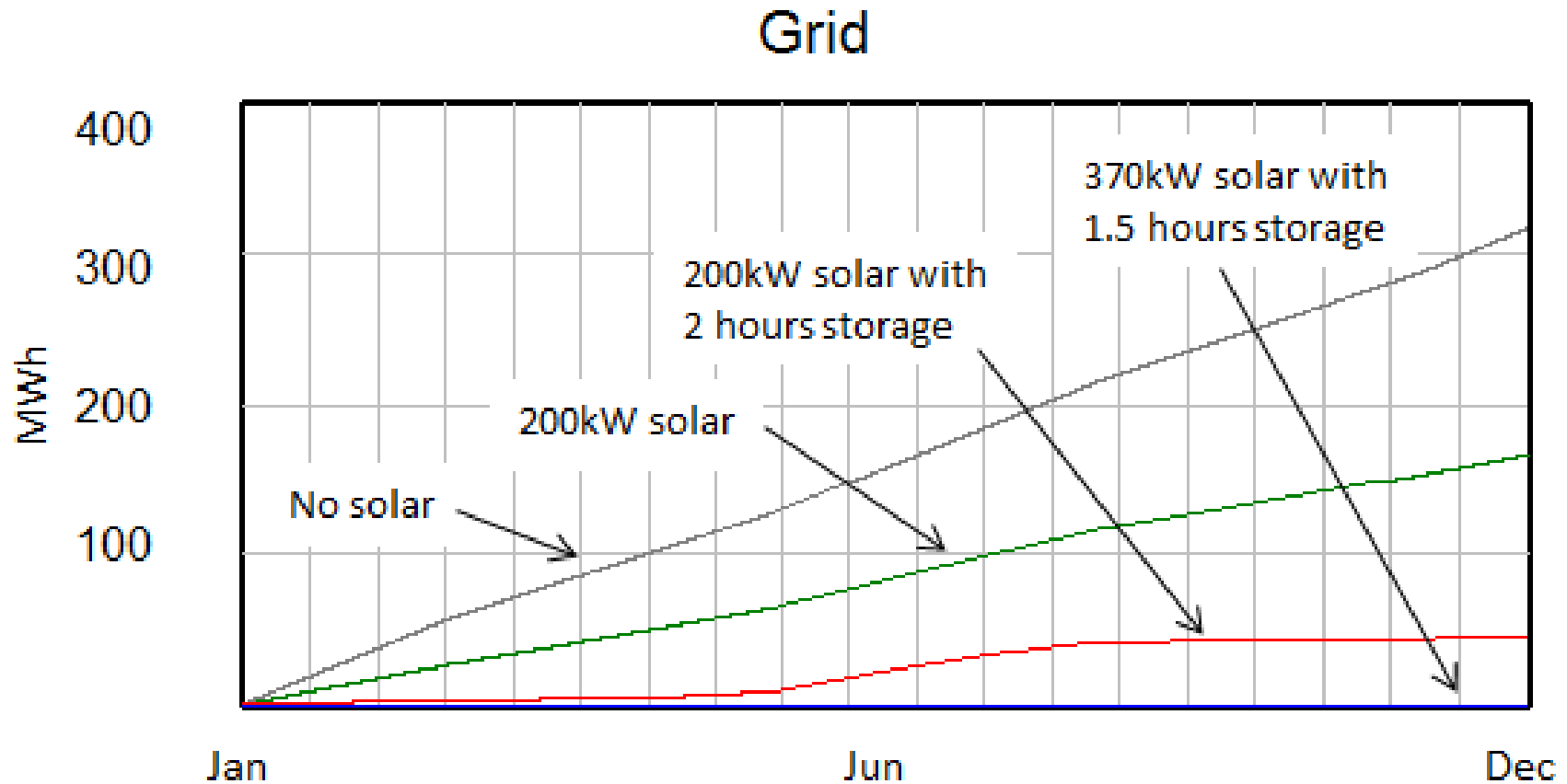


Vision for old Fremantle Depot Site

- Use Greenstar Communities/One Planet
- #1 Priority - Investigation of sustainable development potential for the Knutsford Street Depot Site



Initial GHD study – electricity required from grid





City of Fremantle

Building sustainability leadership within City of Fremantle staff





Building leadership in the community

- Sign eight schools to the Low Carbon Schools program by 2016.
- Sign 20 commercial businesses to the CitySwitch program by 2017.
 - Abernethy Owen, LED lighting
 - 8 month payback!





Community café series

the community
sustainability
Café Series

**FREE
EVENT ALL
WELCOME!**

Local & Sustainable Food

Thursday 28th Aug 2014, 4:30 - 6:30pm at Victoria Hall, High Street, Freo

Speakers - Introduction by Brad Pettitt, talks from Professor Peter Newman AO, Professor Dora Marinova and Heath Daly from the Raw Kitchen. Learn, share and network with local champions, experts and academics in Sustainability over local food offerings.

CONTACT: (08) 9266 9042 or email CUSP@Curtin.edu.au
ALL REGISTRATIONS TO: www.communitycafeseries.eventbrite.com.au



Fremantle as a living laboratory

- Evidence based approach to best value carbon reduction.
- Key lighthouse projects to inspire broader change beyond Fremantle.
- Education and community engagement. Sustainable change is not getting too far ahead ... bringing the majority with you.

Thanks

mayor@fremantle.wa.gov.au





Transport: from bikes to light rail

- **Our target: The City of Fremantle will reduce emissions from transport by at least 30% by 2020**





Density: From small dwellings to TODs

THE WEST AUSTRALIAN
WestProperty
thewest.com.au/business
WEDNESDAY, MAY 29, 2011
17

Freo has cure for urban sprawl

MARISSA LAGUE

The City of Fremantle wants to change its planning scheme to allow greater housing density and more affordable rental accommodation with the aim of avoiding urban sprawl as WA's population climbs from 1.65 million to an estimated 2.2 million in the next 30 years.

The change would allow homeowners to build a small, secondary home on their residential blocks, which could be independently rented out.

Fremantle mayor Brad Pettit said this would support the trend toward smaller house sizes and affordability.

"These dwellings will provide alternative, single housing for people in Fremantle who may otherwise experience difficulty in finding inexpensive rental accommodation," he said.

Under existing guidelines, homeowners may build separate granny flats or studio apartments but their use is limited to family members.

Mr Pettit said the plan to system could play an important role in promoting greater diversity in housing supply so that it responds to demographic and economic trends.

A key part of the proposal is that small secondary dwellings on single house lots would not require planning approval where certain criteria are met.

The city's planning and development director Philip St John said the removal of the regulatory barrier would simplify the approval process and assist in achieving cheaper housing.

He said there was broad support for the change which was not that different to current planning laws.

A critical condition is that the new dwelling could not be subdivided and would always remain on the same title as the house.

"It provides an alternative where homeowners may not want to subdivide and build a large house in their backyard but are happier to do this," Mr St John said.

The size of the existing block may restrict the size of the secondary dwelling and Mr St John said small lot sizes may need approval to comply with site planning rules.

If the proposal is adopted, additional dwellings on lots of 600sqm or less would have a maximum floor area of 50sqm and a maximum floor area of 70sqm on lots greater than 600sqm.

The homes would be single storey with no requirement for a car parking space.

The council will be accepting public submissions on the proposed change to its town planning scheme and hopes to see the scheme or a modified version of it, introduced in other parts of Perth and ultimately incorporated into State planning codes.



Changes mooted: Fremantle mayor Brad Pettit and Philip St John. *Picture: Megan Johnson*

The WiRE Mag. In The West Thursday

CBRE
CB RICHARD ELLIS
STRATEGIC SUBDIVISION OPPORTUNITY
OFFERS TO PURCHASE



WA: 360 Wanneroo Rd, Madley
• 4,944sqm approx residential land
• immediate development capability
For Sale by offers invited
closing Thursday 2nd June 2011

Richard Cook: 9412 006 949 / 9320 007/s
Michael Alford: 9403 466 803 / 9320 0640
Level 2, 216 St Georges Tce, Perth
cbre.com.au