

Townsville: Queensland Solar City

Environment and Resources
July 2009

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Solar City Community Day – 19/3/06



- The Townsville: Queensland Solar City project is part of the Australian Government Solar Cities program. Ergon Energy would like to acknowledge the support of the Australian Government for the project, which also includes the Queensland Government as a funding partner and these consortium



Australian Government
Solar Cities



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HIG – Itara at Riverway

- Medium Density Residential Development



Delfin Lend Lease

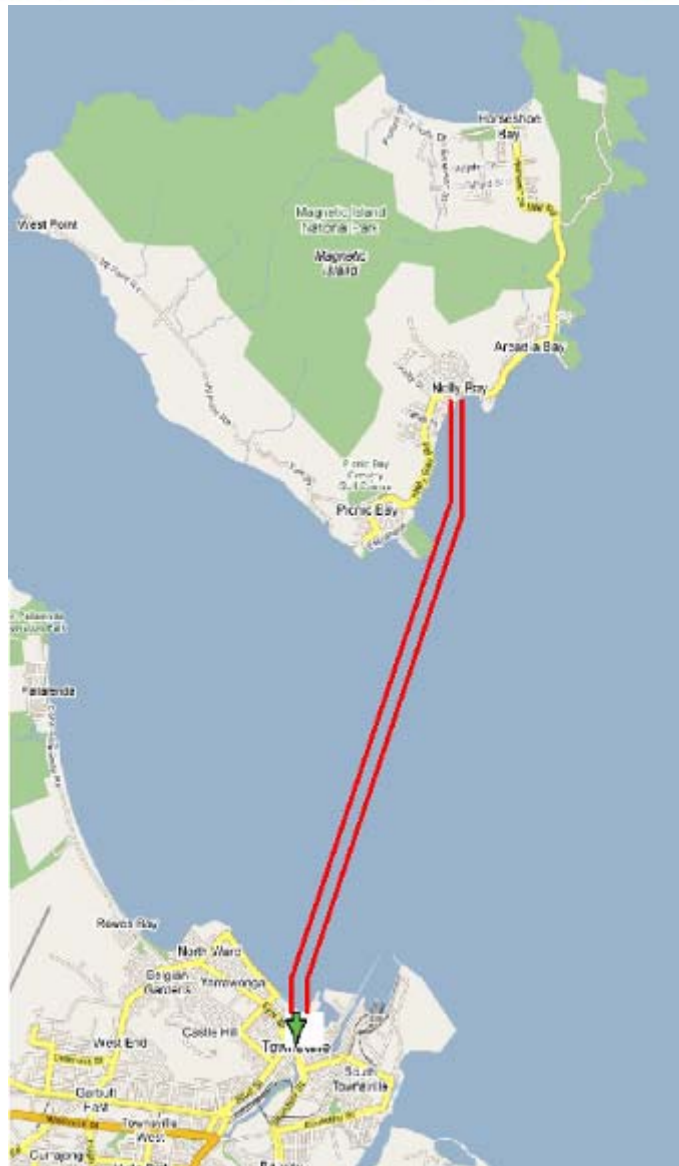
- Rocky Springs Residential Housing Development
 - Low energy residential building design



Townsville as a Learnscape: Transect



Ergon Energy – MAGNETIC ISLAND SOLAR SUBURB



- **REDUCE ENERGY USE BY 25%**
- **REDUCE PEAK BY 25%**
- Around 1500 smart meters
- 1500 energy audits
- About 500 solar electricity systems
- In-house displays
- Comprehensive demand-side management
- Tariff Trials
- Community Engagement
- Greenfield sites

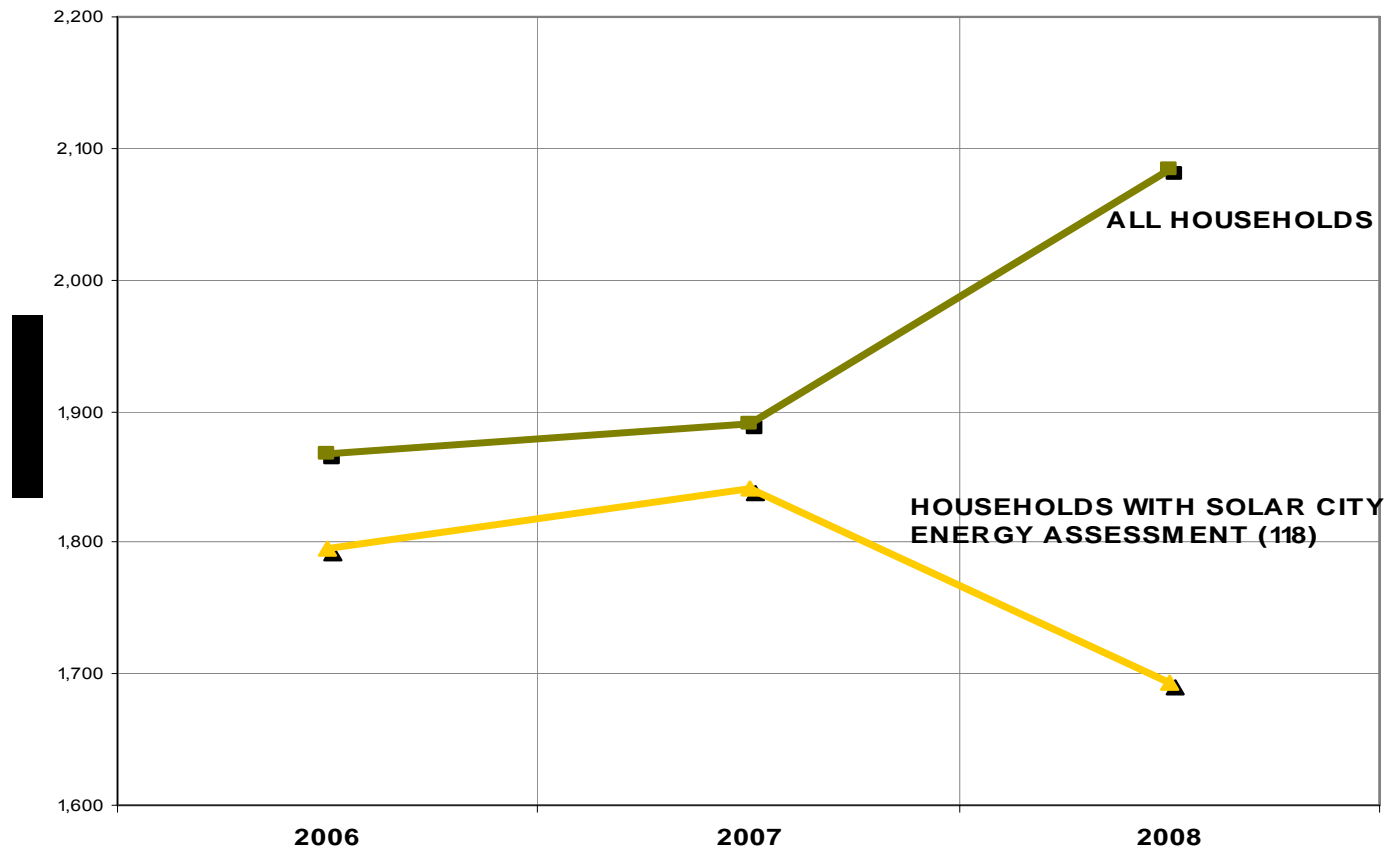


Project Status

PV Installed		Meters	Assessments	Follow up visits	Lightbulbs replaced
No of Systems	kW				watts
60	130	1300	680	75	180,000

ENERGY USE

Magnetic Island Energy Use
Per Household - July to September



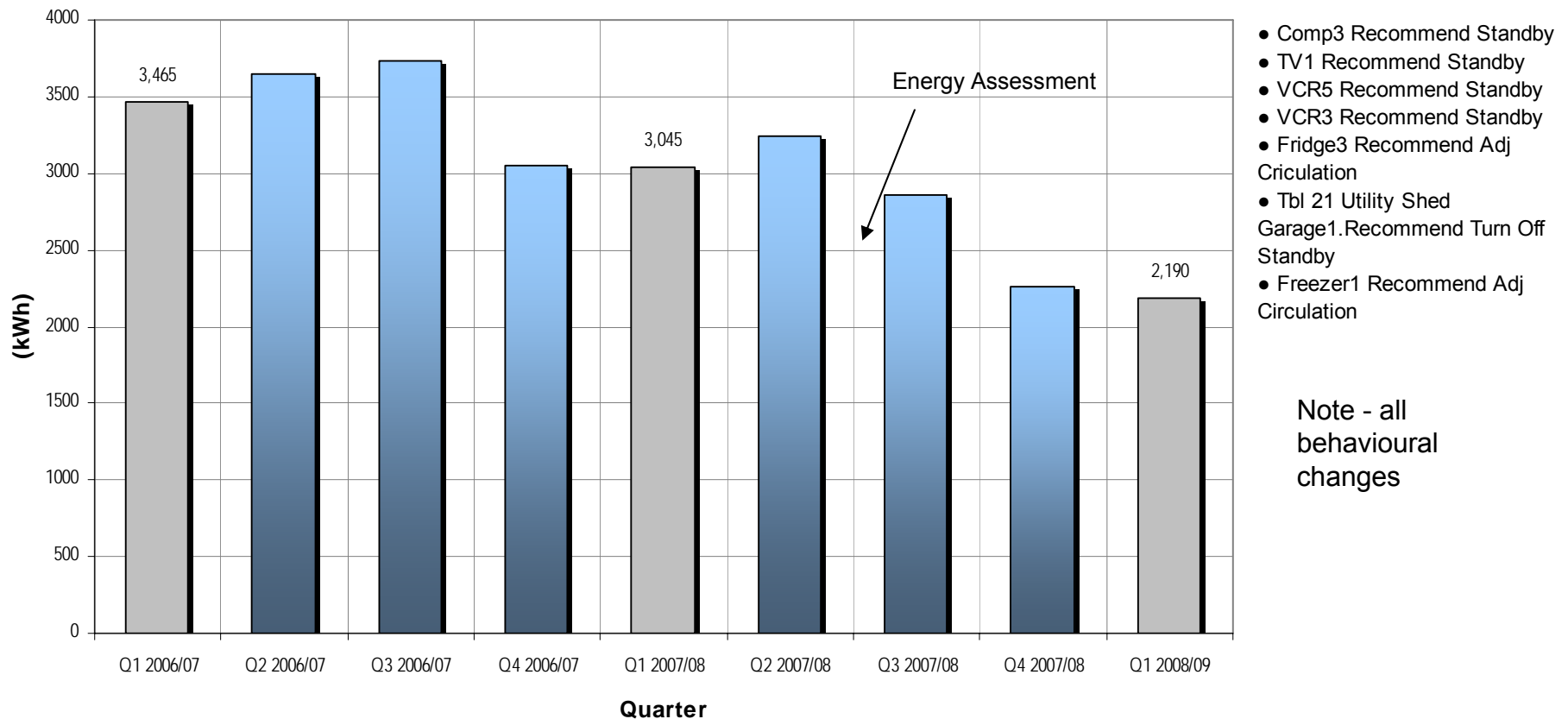
Source: Ergon Energy FACOM Data

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Saved \$140 on the Power Bill

Individual Customer Analysis
Relationship between Energy (FACOM data) and Recommended Intervention



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Magnetic Island Golf Club

- Roof painted white
- Installed Triphosphor lights
- Hosting 11kW Photovoltaic System
- Other initiatives - cooling, LVR, Redflow installed



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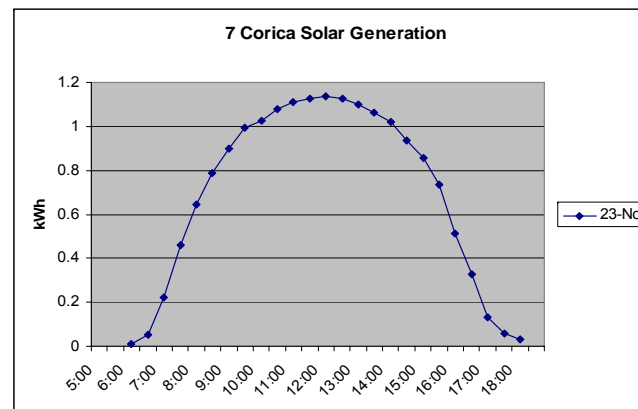
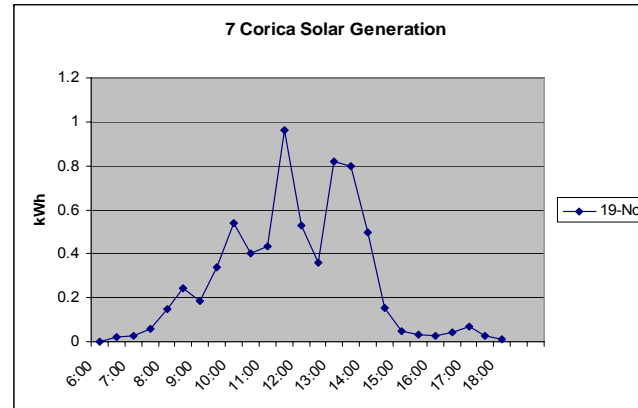
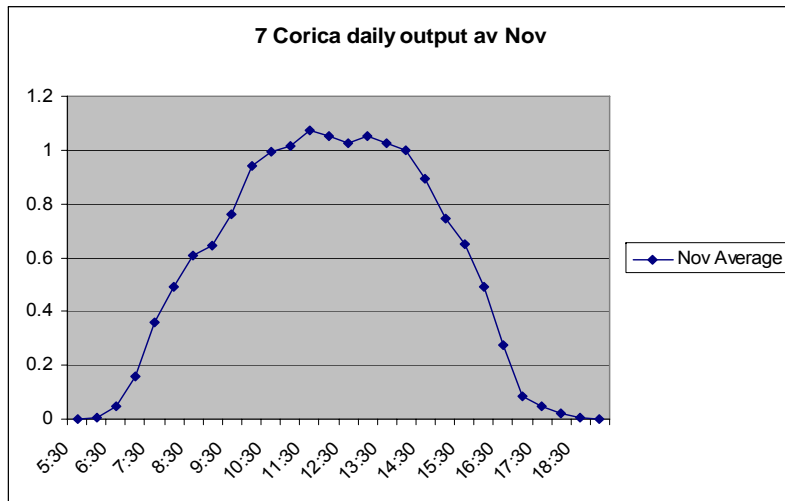




Any questions?

Thank you

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Bright Point Energy Efficiency Program



- Working with Property Managers, owners, developers and Body Corporate to reduce costs and conserve energy while maintaining comfort and service to important visitor market.

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Compendium Information




Welcome to Maggie

You are now part of our Solar Suburb project — a leading-edge program that will help keep Maggie naturally pristine for future generations.

For more information on the Magnetic Island Solar Suburb project — part of the visionary Australian Government Solar Cities program—please see your room compendium or visit www.townsvillesolarcity.com.au





Avoid Peak Hour



Why wouldn't you try to avoid peak hour traffic if you could? Peak Demand or Peak Load is a term used to describe the highest period of power consumption each day. Just like peak hour traffic, it is the time of day you should try to avoid using unnecessary electrical appliances if possible.





Reducing energy consumption during this peak time will help reduce environmental impacts as major upgrades to the energy network may be delayed or avoided, by using energy in a smarter way or by using renewable energy sources, peak demand can be reduced.

So help free up the energy highway — It's easy.

Here's how you can help reduce traffic on the electricity grid:

- Use washing machines, dryers, dishwashers and pool pumps outside the hours of 6pm – 9pm
- Switch the light off when you are not using it
- If you need to turn it on, set your air conditioner at 25°





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Solar Electricity display



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Smart Meter

