

Local Power Griffith University EcoCentre

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Outline

- Types of Solar Power
- How it works
- How it fits
- PV take-up
- What Local Power is doing
- Pricing & Buying Group Offer
- Questions?

Types of Solar Power

- “Traditional Solar”

- Clothes line, sunroom, drying food...
- Solar hot water



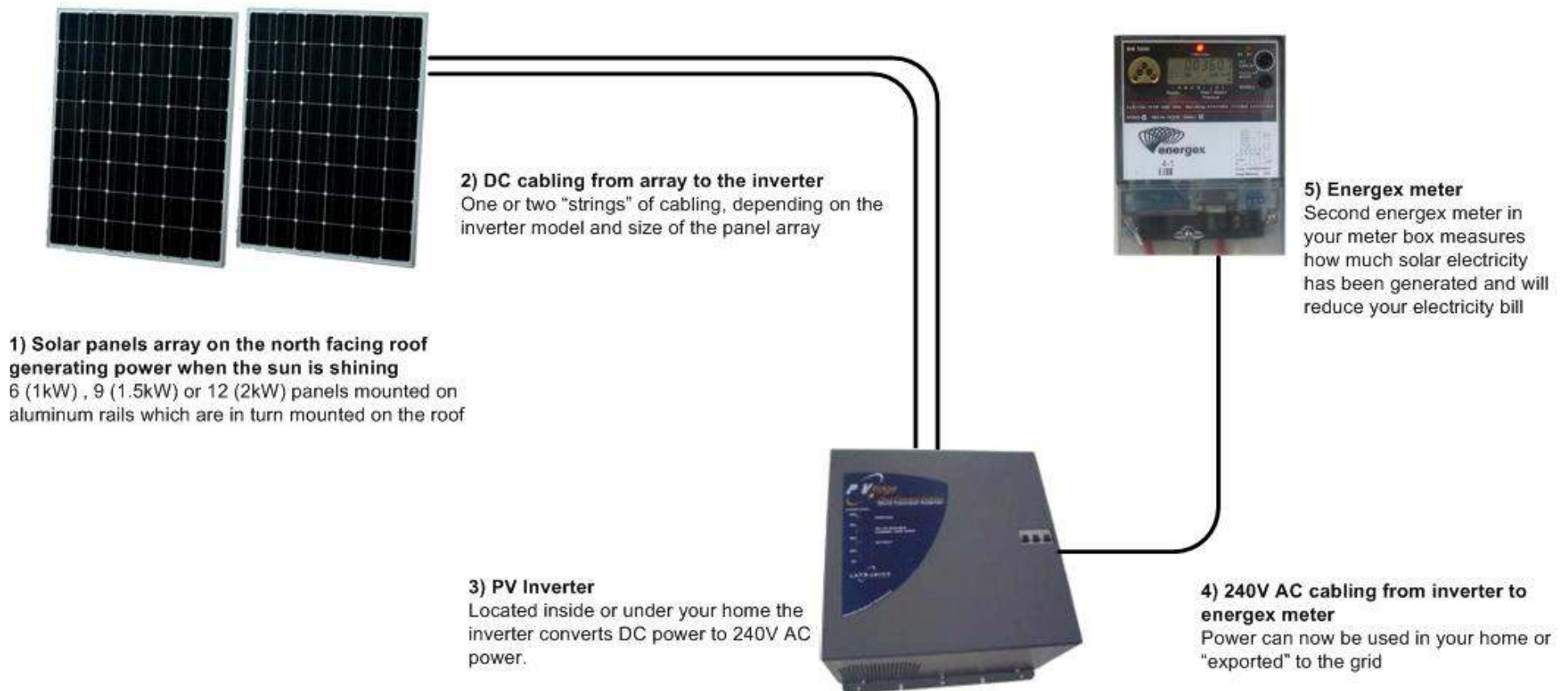
PV Solar (photovoltaic)

Convert sunlight directly to electricity

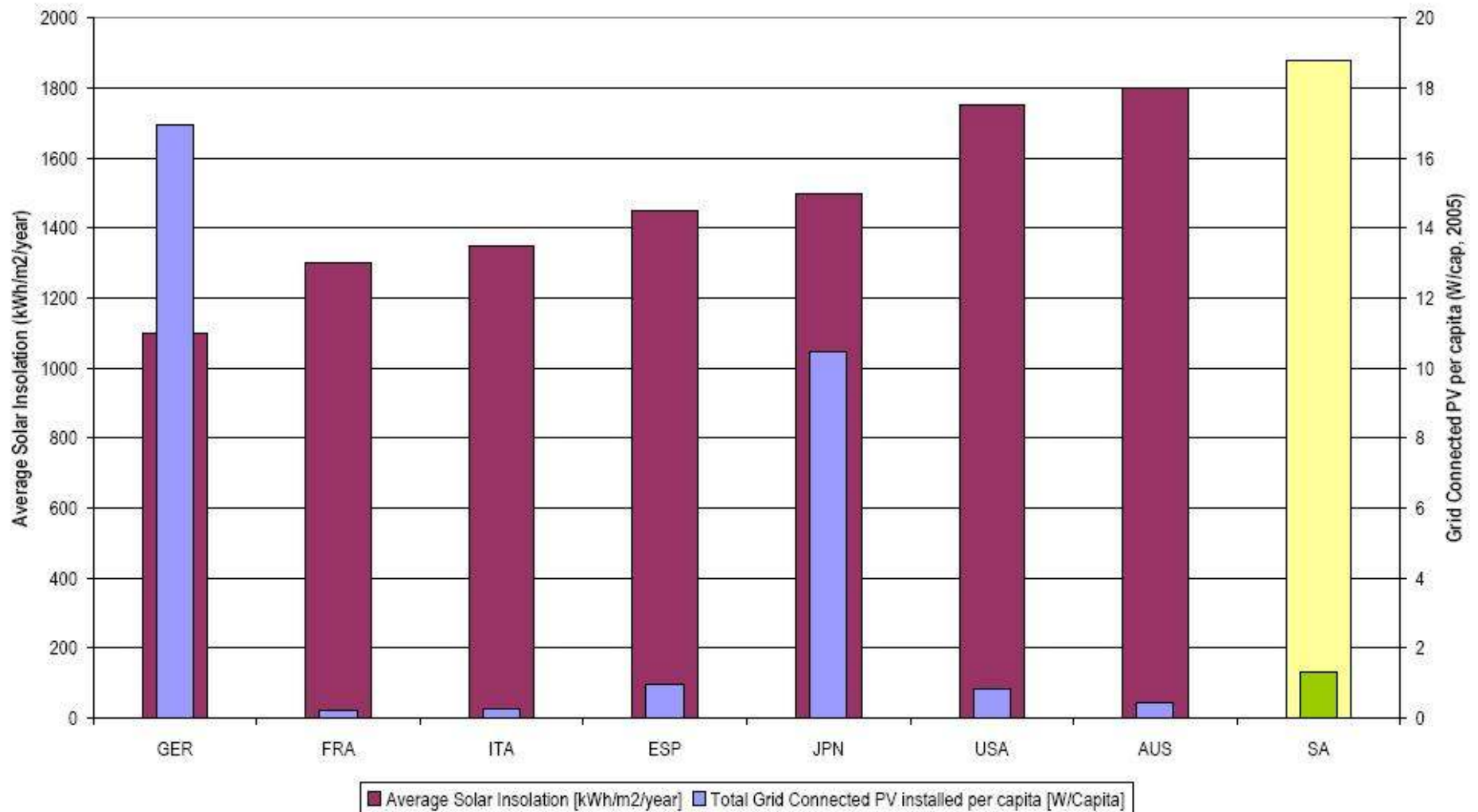


How it works

Local Power – PV solar system diagram (simplified conceptual only)



PV solar take-up globally per capita

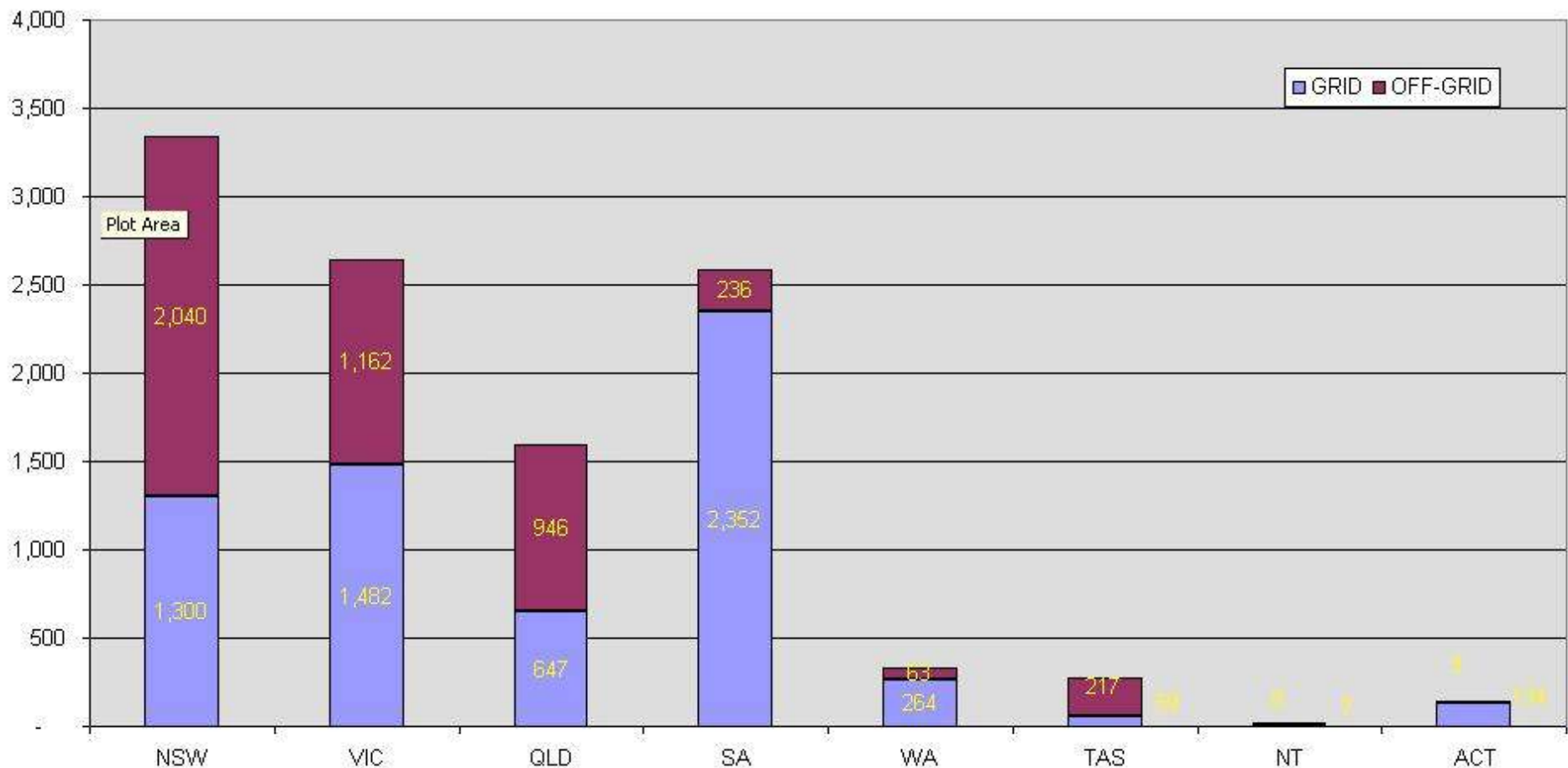


PV solar take-up in Australia



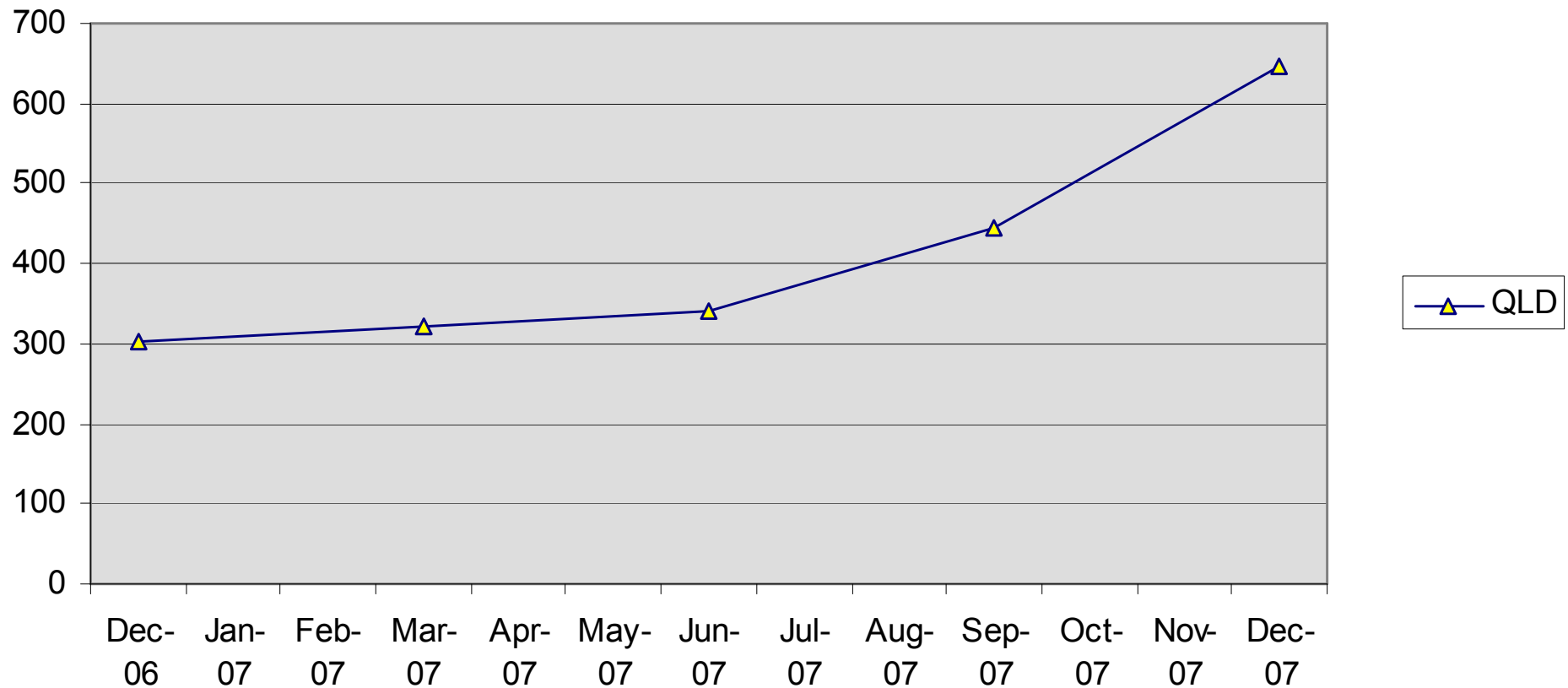
Australian Government
Department of the Environment and Heritage
Australian Greenhouse Office

Number of Systems Installed by State
to December 2007



PV solar take-up in Queensland

QLD



What is Local Power doing with PV Solar

- A not for profit community based project with a buying group to aid:
 - Best quality PV solar systems installed at a reduced price with good quality after sale service (no marketing costs or quoting costs)
 - Reducing travel time (& CO2) for installers/suppliers with a greater concentration of installs in the one area
 - Streamlining paperwork with Energex, AGO and Installers for the community
 - Providing certainty for a developing industry
- Decentralising power generation, moving it closer to the end user & reducing transmission loss
- Engaging with Local & State Governments including community groups

Typical 1kW PV solar system price

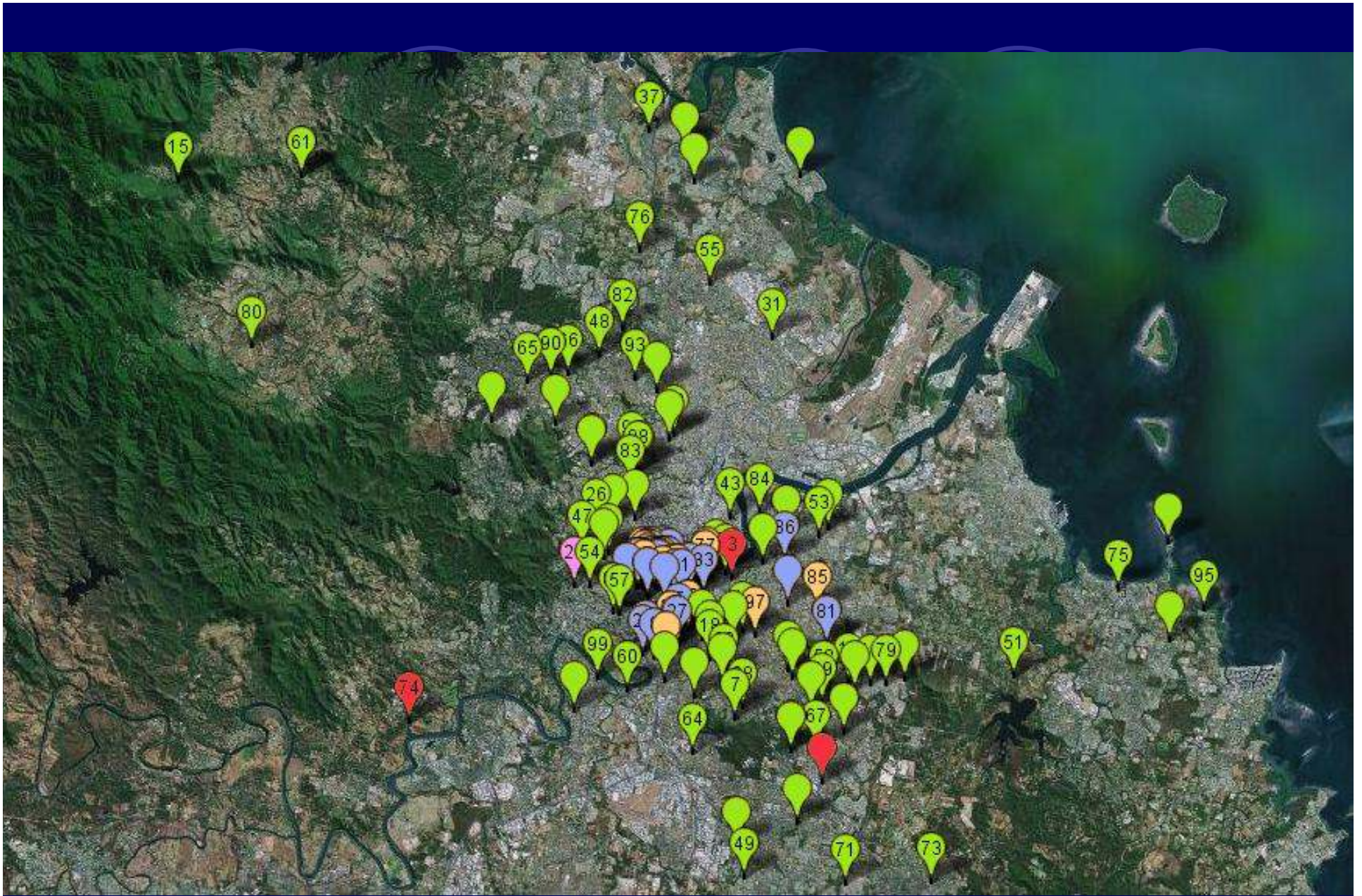
- around \$4500 after rebates & incentives
- generates around 1464 kWh/year or 4kWh/day
- save around 2 tonnes of CO₂/year = leaving an average car in the garage for 4.6 months
- save 4850 litres of water/year which the coal fired power station would have used

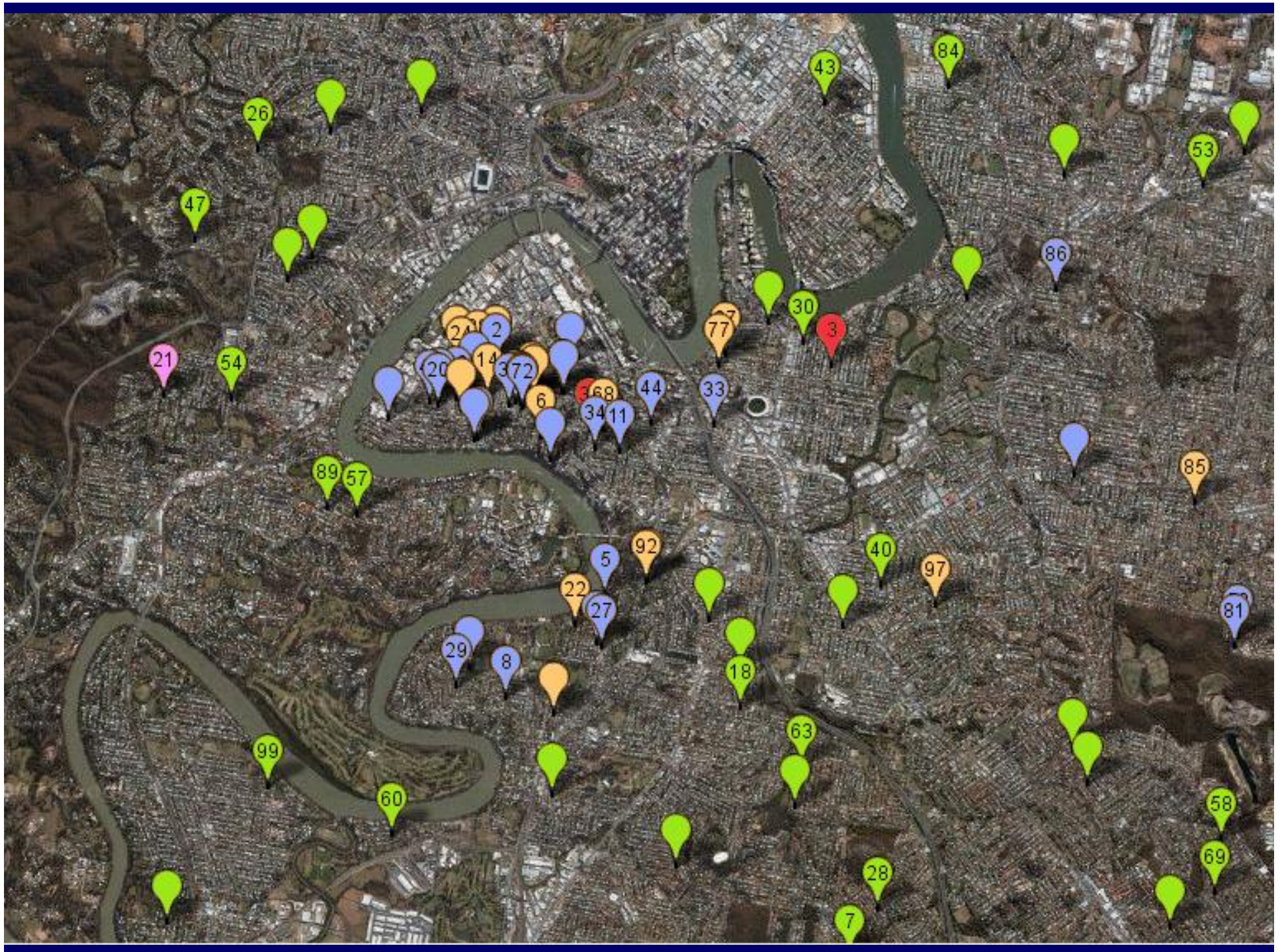
Local Power Buying Group Offer

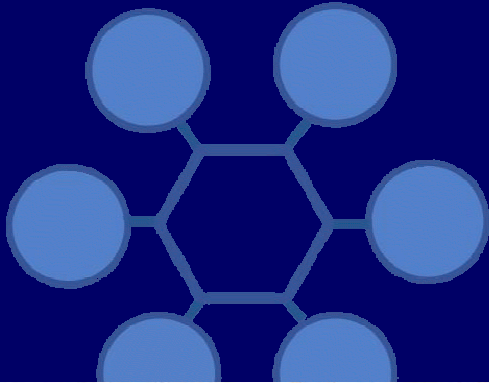
fully installed cost* without PVRP financing fee								
system name	cost of system	deposit payment	balance payment	total upfront payment	PVRP rebate	cost less PVRP	cost less PVRP and REC at \$15	cost less PVRP and REC at \$39
1kW	\$10,461	\$1,500	\$8,961	\$10,461	\$8,000	\$2,461	\$2,146	\$1,642
1.5kW	\$14,906	\$2,500	\$12,406	\$14,906	\$8,000	\$6,906	\$6,426	\$5,658
2kW	\$19,100	\$3,500	\$15,600	\$19,100	\$8,000	\$11,100	\$10,455	\$9,423
3kW	\$26,361	\$5,500	\$20,861	\$26,361	\$8,000	\$18,361	\$17,386	\$15,826
fully installed cost* with PVRP financing fee								
system name	cost of system	deposit payment	balance payment	total upfront payment	PVRP rebate	cost less PVRP	cost less PVRP and REC at \$15	cost less PVRP and REC at \$39
1kW	\$10,626	\$1,500	\$1,126	\$2,626	\$8,000	\$2,626	\$2,311	\$1,807
1.5kW	\$15,071	\$2,500	\$4,571	\$7,071	\$8,000	\$7,071	\$6,591	\$5,823
2kW	\$19,265	\$3,500	\$7,765	\$11,265	\$8,000	\$11,265	\$10,620	\$9,588
3kW	\$26,526	\$5,500	\$13,026	\$18,526	\$8,000	\$18,526	\$17,551	\$15,991

What uses most of my electricity?

- Electric hotwater systems
- Lack of energy efficient design (e.g. passive cooling, ventilation, eaves, insulation etc.) leading to inefficient heater and air-conditioner use
- Pool pumps
- Multiple fridges
- Downlights
- Standby power – TVs, computers, phone chargers, etc.







Any Questions?

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