Freesia Gardens, Chatswood – Case Study

Completed **14 projects** across lighting, ventilation, hot water.

Resulted in 77% savings on energy

Freesia Gardens	2011	2016
Common Area Electricity	\$24,329	\$6,800
Common Area Gas	\$20,364	\$25,848
Common Area Water	\$19,061	\$21,279*

- Free cash flow diverted to building improvements
- Sinking fund: Up \$65% over 5 years
- Property Valuations: Up 46% over 5 years
- 1 of first 10 strata properties nationally to get a NABERS for Apartment Buildings rating





^{*}Includes base load leak savings

Freesia Gardens – Completed Projects

Projects covered lighting, ventilation and water



Lighting Projects

- Foyer, lift, lift bay downlights
- 2 x levels of basement carpark
- 2 x fire stairs



Fan Projects

- Timers on foyer ventilation fan
- Installed new 3 speed foyer ventilation fan
- Timer on existing garbage chute ventilation fan
- Installation of additional eco-fan in second garbage room

Hot Water

- New lagging around pipes out of hot water boilers
- Reduce temperature setting of hot water boilers (within legal limits)
- Replace 2 x ageing hot water boilers



Cold Water

- Water saving taps, toilets, isolation valves, garden taps
- Replaced leaking ball valve on hot water boilers
- Replaced sections of leaking pipes in walls
- Replaced garden irrigation system





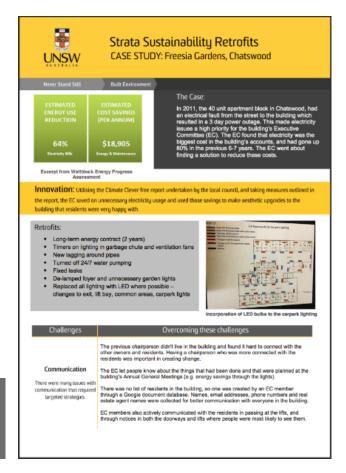
Freesia Gardens – 5 Year Benefits

- \$27,000 on energy efficiency projects
- \$18,000 additional cash flow from energy savings p.a.
- \$66,000 spent on building improvements over 5 years:
 - Installed a video system to improve security: \$14,245
 - New security gate to stop unlawful use of visitors carpark: \$2,530
 - Extra intercom panel to allow visitors to access carpark:
 \$2,140
 - New fences to re-invigorate a garden bed: \$5,000
 - New garden gate to reduce catching/noise complaints:
 \$1,045
 - Repaint front facade of building: \$6,500
 - Repaint common foyer, lift bays and apartment doors:
 \$11,517
 - Recarpet 6 levels of lift bays: \$16,770
 - New roof over water boilers to lengthen lifespan:
 \$5,545

Sinking fund health: Up 65% over 5 years

Record property valuations: Up 46% over 5 years





Re-invigorated Gardens



Fresh coat of paint inside



Fresh coat of paint outside



NABERS for Apartments – 5 Star Energy Rating (2018)





Rating valid until

July 2019

Freesia Gardens

Achieved 5 star NABERS Energy Rating

3 Freeman Road Chatswood NSW 2067





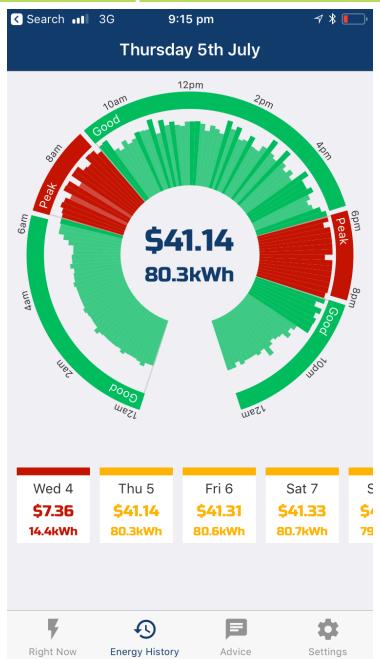
NABERS is a national initiative managed by the New South Wales Government - Office of Environment and Heritage on behalf of the Commonwealth, State and Territory Governments. This NABERS Rating is based on 12 months of operational energy use. More stars indicate better energy performance and lower emissions of greenhouse gases.

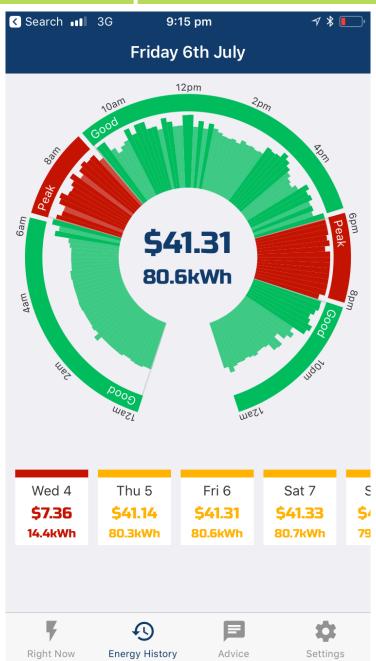
www.nabers.gov.au

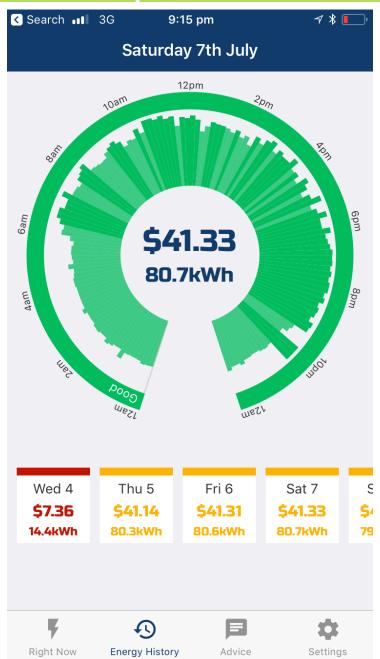
PowerPal hardware device

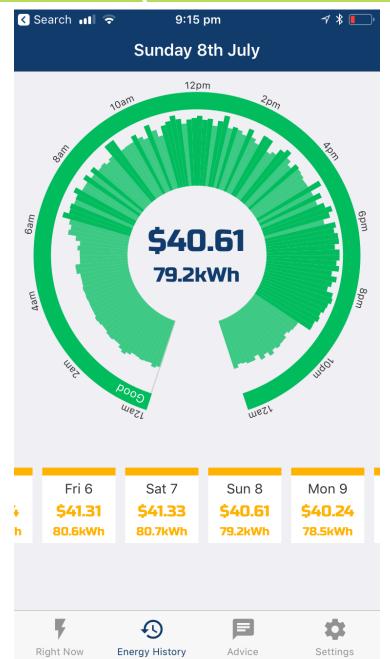


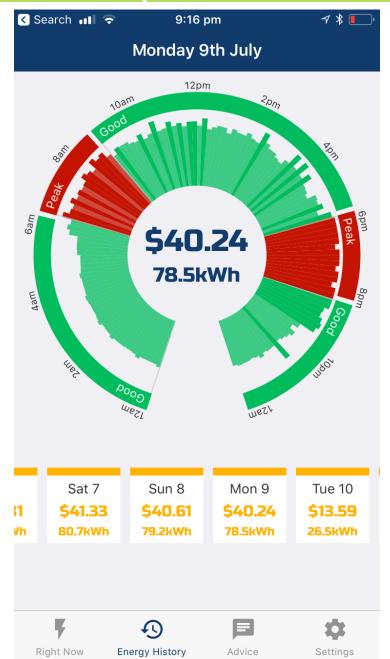
PowerPal light sensor installed over pulse output of common area meter











Further information



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