Exemplary Advances

2017 July ***"Exemplary Advances"*** is the newsletter for Exemplary Energy Partners, Canberra. Feel free to forward it to friends and colleagues. Click here to subscribe or unsubscribe. Feedback is most welcome.

Past editions of ***"Exemplary Advances"*** are available on our website.

Exemplary Weather and Energy (EWE) Index[i] - June 2017

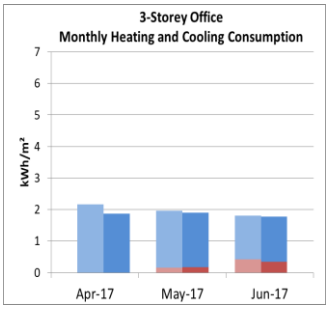
Monthly tabulation and commentary relative to the climatic norm – the Reference Meteorological Years

2017 June	Canberra		Perth		Sydney	
	Heat	Cool	Heat	Cool	Heat	Cool
10-Storey	N/A	N/A	-31%	18%	-25%	3%
3-Storey	N/A	N/A	-29%	25%	-19%	3%
Supermarket	N/A	N/A	-58%	68%	-50%	0%
Solar PV	N/A		13.4%		-3.6%	

Canberra – data not available.

Perth had warmer and sunnier than average weather in June. Although the mean maximum temperature was lower than the average by 2.1°C, the mean average and minimum were higher by 1.6°C and 1.4°C respectively. The 10-storey office South-facing zone had cooling consumption 27.4% less than the average due to the warmer air temperature. The North and West-facing zones also had more cooling consumption than the average, by over 19.0% and 27% respectively due to the warmer and sunnier weather. The solar PV array had an energy yield higher than the average by 13.4%.

Sydney also had a warmer than the average weather in June. The mean maximum, minimum and average temperatures were higher by 0.1°C, 1.8°C and 0.7°C respectively. Both our office building models had lower heating and higher cooling loads than the average. The East-facing zones of the 10-storey office had 18.8% less heating and 16.4% higher cooling consumptions. On average, there was less sun in the later afternoon. The 10-storey office West-facing zone had both heating and cooling loads less than the average by 21% in this weather. Solar PV energy yield was 3.6% lower than the average.



Mandatory Home Energy Rating in the ACT for 219 Months

Mandatory rating and disclosure of the energy efficiency of existing homes at the time of sale has been law in the ACT since April 1999 and we have tracked the $/star value correlation since then. Recently, we have disaggregated the data by housing type and will be publishing those results soon.

Home Energy Rating OptiMizer – HERO - available for free trial

The service is now available for AccuRate and BERS Pro files with a version to handle FirstRate5 files under advanced development. Contact us for your free trial.

[i] Exemplary publishes the EWE for three archetypical buildings and a residential solar PV system each month; applying the RTYs to EnergyPlus models developed using DesignBuilder for a 10-storey office, a 3-storey office and a single level supermarket as well as an SAM model of a typical 3 kW_{peak} solar PV system designed by GSES. All values are % increase/decrease of energy demand/output relative to climatically typical weather. Especially during the mild seasons, large % changes can occur from small absolute differences.