



# Exemplary Advances

2017 August “*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](#).

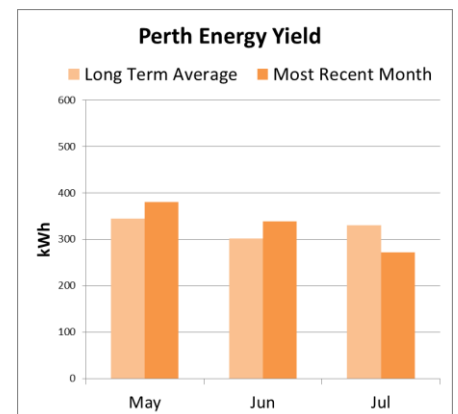
## Exemplary Weather and Energy (EWE) Index<sup>i</sup> - July 2017

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

2017 July	Canberra		Perth		Sydney	
	Heat	Cool	Heat	Cool	Heat	Cool
10-Storey	N/A	N/A	-37%	-5%	N/A	N/A
3-Storey	N/A	N/A	-42%	-2%	N/A	N/A
Supermarket	N/A	N/A	-24%	N/A	N/A	N/A
Solar PV	N/A		-17.8%		N/A	

**Canberra** – data not available.

**Perth** had warmer than average weather in July in terms of air temperature. The mean maximum, minimum and average temperatures were all higher than the averages by 2.0°C, 0.7°C and 1.5°C respectively. All our commercial building model simulations result in less heating consumption than the long term average. The 2 office buildings had less cooling as well, but the actual values are negligible. The 10-storey office North and West-facing zones had less heating consumption than the average by 29% and 43% respectively due to the warmer and sunnier weather. The South-facing zone also had heating consumption 40% less than the average due primarily to the warmer air temperature. The solar PV array had an energy yield less than the average by 17.8% due to the warmer and cloudier weather.



**Sydney** – data not available.

## Mandatory Home Energy Rating in the ACT for 220 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.

<sup>i</sup> 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<sub>peak</sub> 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.