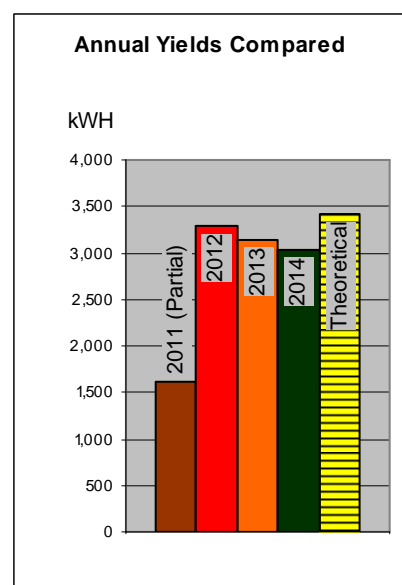
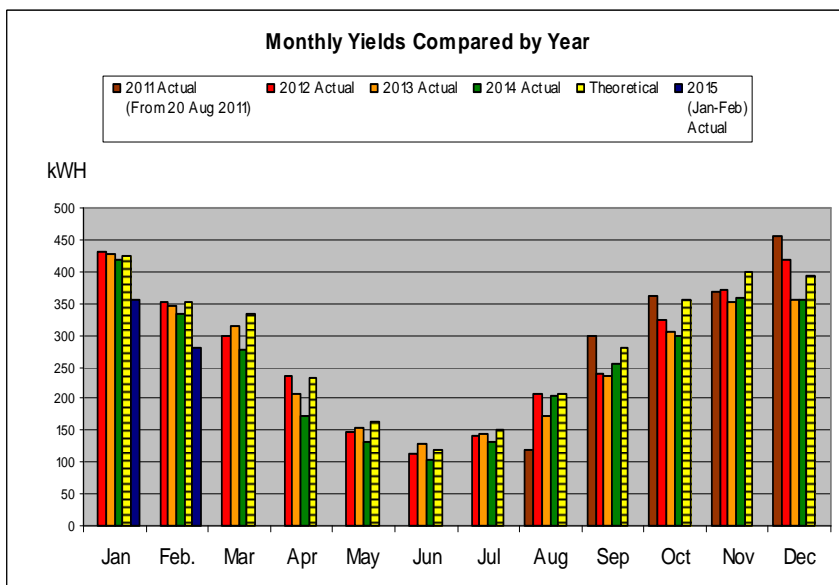


Local PV Generation Results: Year-by-Year Monthly and Annual Totals Compared

The data on the EI Co-op website showing the power actually generated by a 2.6 kWp PV installation located in Inverloch has been updated and historical data added to indicate year-to-year changes since the system was installed in August, 2011. The data on the website can be used to

- Help estimate what size system would be needed to meet a given generation need, broken down to a month-by-month level. Given that PV systems typically generate more than three times as much power in December and January than they do in June and July, this can be a useful guide to match PV system output to power usage throughout the year.
- Compare your yield changes on a month to month and year to year basis with this system. If you're concerned that the output from your system has declined it might reassure you to know you're not alone (good news -- it's most likely the weather fluctuations) or give you a hint that a system check might be in order (not such good news, but potentially catching a problem early before things escalate...)

The summary charts below compare the results on monthly and annual totals bases for all years since the system was commissioned -- they also appear on the website. They illustrate the significant differences that can occur in both individual months and over a whole year. The insolation was lower in 2014 compared to 2012, with the difference being more noticeable in certain months. There has been a year-on year drop in yield, but analysis of yields on individual days on similar dates in different years strongly suggests this is due to weather pattern differences. Similar "good days" in 2014 still achieve peak generation in excess of 2.5 kW as measured on the 5-minute intervals recorded by the inverter and similar daily totals of around 16.5 kWh. But there have been fewer of them.... It appears to be worth remembering that the theoretical results are based on 30-year average climate statistics, and that according to the NREL website used to calculate these results variations of up to 30% can be expected.



If additional information would be helpful please send email to admin@eico-op.com.au or brewpeter@hotmail.com with "PV Generation Results Help" or similar in the subject line.