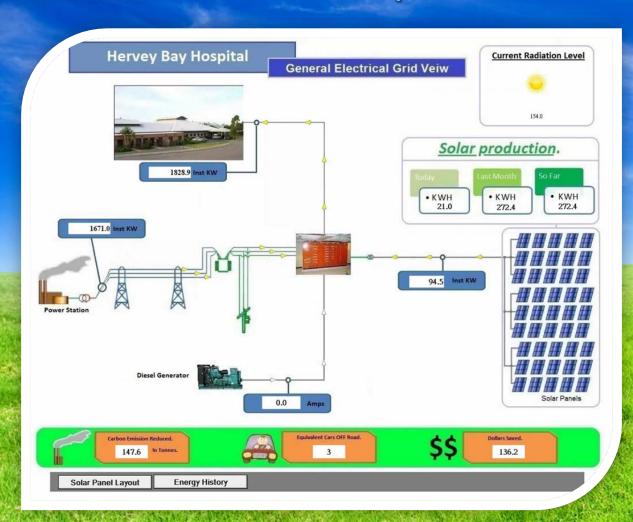








## Overview of the Hospital Electrical System

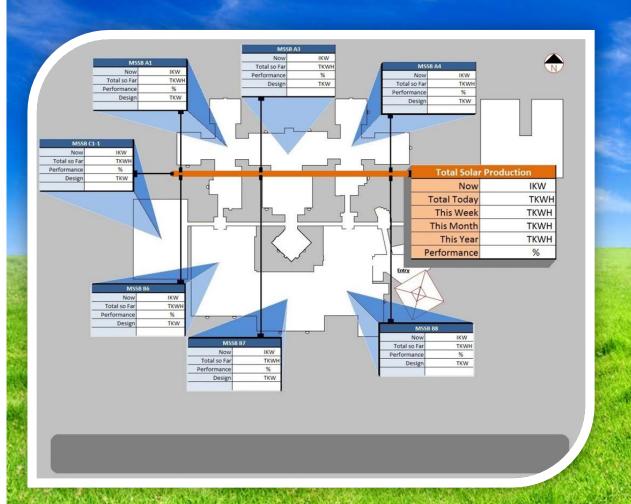


The challenge on this project was to:

- Tie all the different energy systems together.
- Verify and report the solar performance day by day.
- Tabulate data and present in a simple and easy to manage profile.
- Provide the engineering staff with a simple means of viewing and control.



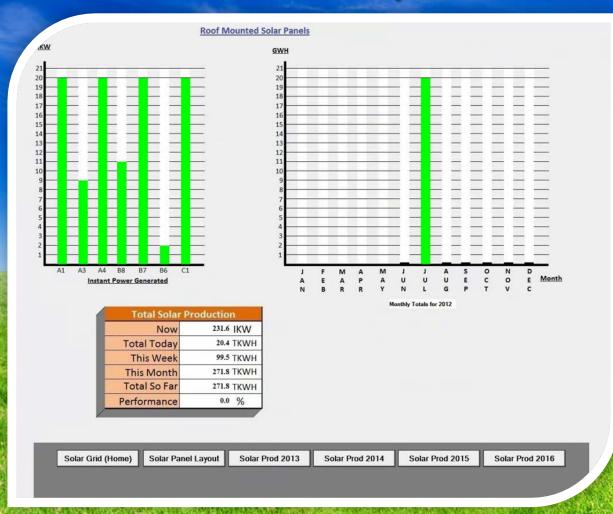
## **Individual Monitoring of Solar Panel Clusters**



- Data collected can be displayed per individual roof.
- Animated graphics show which section of roof is actually producing energy.
- Solar output is compared minute by minute with output from similar days and calculated to give a performance indication.



## Live Graphical Data



- Data collected can be displayed on the Reception screen & Kiosk or in the Engineer's office live.
- Daily, weekly, monthly and yearly histories are stored and available to download.
- All data is scanned every few seconds for accuracy and stored onsite.



## Individual Tabulated Data per Cluster Solar Grid (Home) **Solar Production** 2012 2014 2015 Predicated \$\$ Saved 20888.2 0.0 0.0 20888.2 10444.1 62,717 14409.6 0.0 0.0 14409.6 7204.8 39.893 29103.8 0.0 0.0 0.0 0.0 29103.8 14551.9 78,793 12790.5 0.0 12790.5 6395.2 35,912 16899.7 0.0 16899.6 8449.8 35,912 12708.4 0.0 0.0 0.0 0.0 12708.4 6354.2 Production 47,881 19582.3 0.0 0.0 19582.3 9791.1 Active 710.0 60,396 Day light available 7467.4 7467.4 3733.7 Active 11.2 21,168 Shutdown Relay 133849.9 133849.8 66924.9 Active 701.9 TOTAL Producible Hrs

