



All Energy Pty Ltd
www.allenergypl.com.au

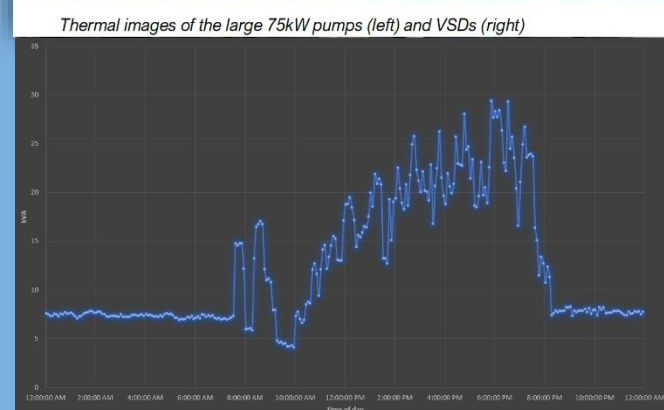
CARBON ZERO STRATEGY:

Cost Reduction via Energy Efficiency & Increased Renewables.

CASE STUDY: Goondiwindi Regional Council.

Project: All Energy Pty Ltd completed a deep dive into power metering, power invoices and council infrastructure, including Scope 1, 2 & 3 GHG emissions. Some options analysed as part of this project to reduce costs and emissions simultaneously included:

- Optimised water transfer pump sizing and submersible pumps to reduce power loads.
- Automation / timers to reduce parasitic power loads.
- Landfill diversion / energy from waste.
- Wholesale power vs traditional retail contract:
 - Council power loads that occur predominantly during the day were found to be well suited to “wholesale” contracts enabling access to low cost “real time” prices during the day due to abundant solar power, with the Civic Centre selected as a very strong candidate.
 - Council implemented a wholesale power contract for the Civic Centre resulting in a 29.4% energy bill saving, then added a further 12 council sites resulting in an average 11.5% power bill saving compared to a traditional retail contract. Three more sites have been recently added for a total of 16 sites.
 - Further savings can be achieved by automatically reducing loads not required when power is most expensive (between 4 to 9 pm) including simple timers to turn off hot water & kitchenette boiling water / chilled water systems, automated zoned lighting (movement detection), & digital timers for non-critical loads (i.e. air conditioning and utility areas outside of business hours, but with manual over-rides) or load shifting.
- The Scope 1, 2 & 3 GHG emissions template developed by All Energy Pty Ltd is now being used by track year on year emissions for council operations and infrastructure.



This project was proudly supported by the Queensland Government.

For further information please contact:

Max Barnes, E: max@allenergypl.com.au

