



EMBRACING ENERGY EFFICIENCY FACTSHEET

LISMORE CITY COUNCIL HAS BEEN WORKING TOWARDS ENERGY EFFICIENCY AND REDUCING GREENHOUSE GAS EMISSIONS FOR OVER A DECADE.

In 2013 we received funding from the Australian Government to improve energy efficiency at our big energy using public facilities – the Lismore Memorial Baths and Goonellabah Sports and Aquatic Centre. We made some simple changes such as installing an evacuated tube solar hot water system, connecting variable speed drives to pool pumps, and replacing all lighting with LEDs. These measures have brought down energy use by around 20% at both facilities.

- Saving \$60,000 annually.
- Reducing our CO₂e emissions by 290 tonnes per year.

In 2014 we received another federal grant to improve energy efficiency at our Goonellabah Corporate Centre and a Council-owned city centre building. The energy audit of our Corporate Centre identified that air-conditioning accounted for 68% of all energy use, so we installed Steril-Aire emitters: an ultra-violet treatment system to improve air-conditioner fan function, eliminate air-borne viruses and bacteria and create a healthier building for all our staff. This measure alone will save \$6000 each year on energy. In addition we:

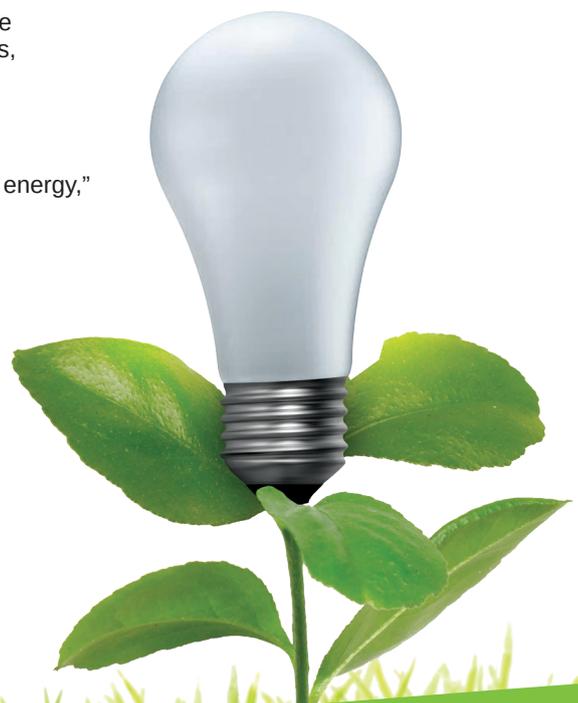
- Replaced nearly all our indoor and outdoor lighting with LEDs, saving another \$8400 annually, and we covered the entire Corporate Centre building exterior and roof with heat-reflective paint, reducing cooling and heating costs. This will save us \$1610 annually.
- At a Council CBD building we replaced an old air conditioner with a more efficient one, reducing power costs by \$3500, energy use by 41% and CO₂e emissions by 10.2 tonnes.

The 2014 measures combined will save us over \$16,000 annually, and reduce greenhouse gas emissions by 63 tonnes or around 20% each year.

- **To increase our community's energy literacy** we partnered with the Lismore Community Sustainability Forum (LCSF), a group of volunteers dedicated to sustainable living, to design and deliver community education on energy efficiency in the home. Energy consultants audited household energy use and ran 'kitchen table' neighbourhood workshops to build social networks, share information and support participants to make changes.

A survey of the 50 plus participants before and after the project showed a marked improvement in knowledge.

"It was the little things I learnt that made the biggest difference to saving energy," said one participant.





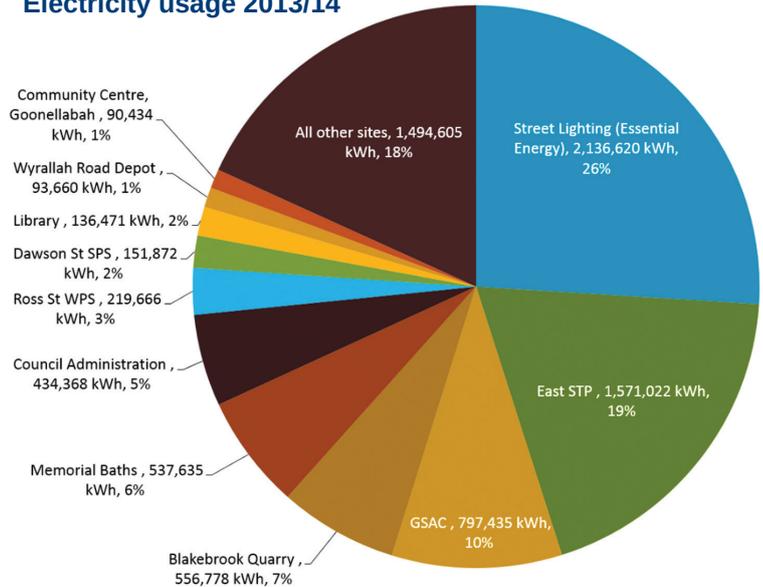
FOR MORE INFORMATION ON LISMORE CITY COUNCIL'S ENERGY EFFICIENCY MEASURES INCLUDING A VIDEO ON HOW WE HAVE SAVED FUNDS AND GREENHOUSE GAS EMISSIONS, VISIT WWW.LISMORE.NSW.GOV.AU

For more on LCSF and to get involved, visit www.lismoresustainability.org.au

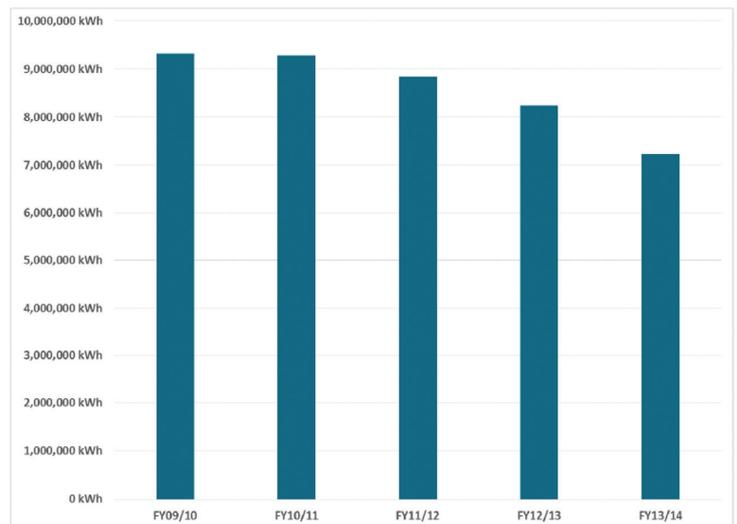
OUR ENERGY EFFICIENCY JOURNEY

- 2004** Joined Cities for Climate Protection Program.
- 2009** Installed first solar panels on Council buildings.
- 2010** Reviewed and downsized engines of vehicle fleet, upgraded old plant and machinery.
From 2010 Council turned the corner on greenhouse gas emissions when they started to decline!
- 2012** Replaced streetlight lamps.
- 2013** Received first Australian Government grant for energy efficiency at Goonellabah Sports and Aquatic Centre and Lismore Memorial Baths.
- 2013** Imagine Lismore community consultation identified the community's vision for "Lismore to be a model of sustainability".
- 2014** Replaced 10 electric hot waters systems with solar hot water systems.
- 2014** Second Australian Government grant for energy efficiency at Council buildings.
- 2014** Council commits to self-generating all its electricity from renewable resources by 2023 and develops a Renewable Energy Master Plan.
- 2014** Council purchases first electric car.
- 2015** Partnered with Farming the Sun, Australia's first Council/community solar farm.
- 2015** Council begins implementation of Renewable Energy Master Plan.

Electricity usage 2013/14



Council's overall electricity consumption (kWh) from FY09/10 to FY13/14



Australian Government
Department of Industry and Science

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