



for
business

Energy Efficient Business

Jennifer Lee



NSW
GOVERNMENT

Office of
Environment
& Heritage



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Energy Efficient Business

 **19,000+**
Completed energy projects

over
 **150,000**
MWh of electricity
a year

More than
 **172,000** GJ
of gas annually

Over
 **\$106M**
Invested by NSW businesses

More than
\$368M
in power savings
over ten years

 **15,000+**
Business professionals trained



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Technical Support

- 47 targeted audits
- 10 technical implementation support projects
- 21 measurement and verification studies
- 30% in regional NSW
- > 18,000 businesses saved \$46.5 million a year in energy bills from implementing projects that were identified through energy efficiency audits (*from audits completed 2009-2016*).





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Energy Efficiency Training Courses 2015/16

- >700 participants attended 47 training courses
 - 1/3 regional courses
 - Building the business case
 - Introduction to HVAC
 - Advanced HVAC
 - PIAM&V
 - Aged care
 - Clubs





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NEW courses available soon

- Introduction to energy management
- Advanced energy management
- Battery storage for business
- Energy efficient commercial refrigeration
- Introduction to voltage optimisation
- Energy efficient lighting





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Post-Training Support

- \$300 for 15 hours of implementation support
- 32 post-training support projects
- 59% in regional NSW
- \$3.1 million annual energy savings achieved





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Heritage Green Energy Grants

\$2 million over 3 years

Eligibility requirements:

- 1) Site listed on Local Environmental Plan
- 2) Participation in Energy Efficient Business program

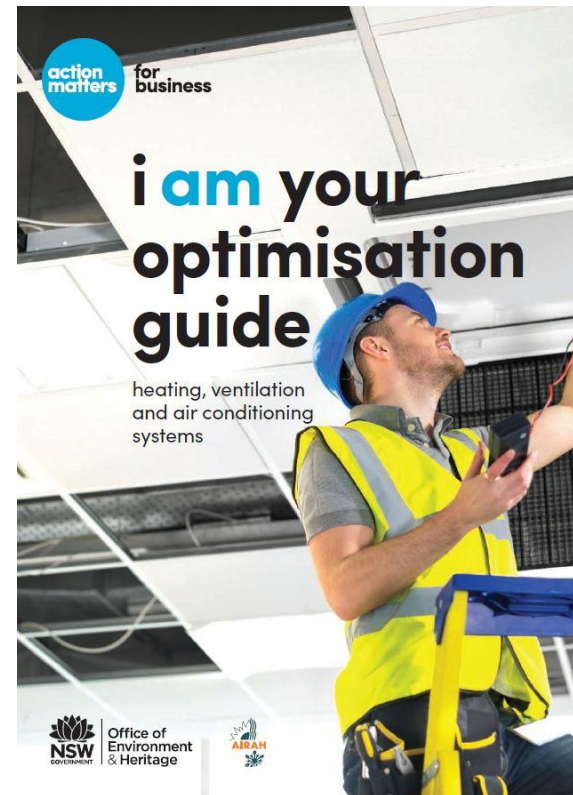




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New information resources

- Wastewater treatment plants
- Aquatic centres
- Case studies





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**SUSTAINABLE GOVERNMENT TEAM
REGIONAL OPERATIONS BRANCH**

Emissions Reduction Fund (ERF)

Public Lighting

GREP E5



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Emissions Reduction Fund - Overview

- Centrepiece of Commonwealth Government's Direct Action Plan.
- Provides incentives (in the form of carbon credits) for businesses and organisations to invest in new technologies and activities that will reduce greenhouse gas emissions.
- Carbon credits can be sold to the Commonwealth Clean Energy Regulator through an ERF auction
- Eligible projects must align to a ERF method (project methodology).



NSW Local Councils and Land Managers – Outreach Programs

- Supporting councils accessing the ERF for waste/wastewater related projects:
 - Alternative Waste Treatment e.g. development and expansion of new/existing AWT's
 - Landfill Gas e.g. new/upgraded gas collection systems
 - Source Separated Organics e.g. composting, anaerobic digestion
 - Wastewater Treatment e.g. treatment via anaerobic digester
- Supporting local land services groups for revegetation/regeneration projects on public lands
 - Sequestration of carbon in soil
 - Avoided clearing and deforestation
 - Regeneration and native forest managed regrowth



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NSW participation in the ERF – Support OEH will provide

- Dissemination on general information regarding ERF opportunities for NSW Local Councils and Land Managers.
- Facilitation of AusIndustry and Dept. of Environment support for project applications
- Support and facilitation in aggregating projects with multiple NSW stakeholders
- Development & dissemination of NSW-specific ERF business cases to support decision making

Proposed Capacity Building Program for Public Lighting

- Provision of technical and financial expertise from consultants to assist ROCs develop business cases
- Assist ROCs to initiate and negotiate accelerated replacement programs with their DNSPs
- Financial incentives available from the ESS and low cost finance available from the CEFC
- Development of tool and information resources
- Workshops to educate ROCs on:
 - understanding their public lighting asset base and the technical opportunity available
 - understanding regulations and procedures (ie: AER)
 - business case development.



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GREP E5 Proposed Program Delivery

- Panel of Preferred Suppliers of PPAs
 - OEH and DoE will establish a panel of preferred suppliers of PPAs.
 - Agencies will Request for Quote to panel members.
 - Proposed Round 1 RFQ facilitated by SGT.



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GREP E5 Proposed Program Delivery

- Guidance to Agencies/Councils
 - Information sheet on PPAs
 - A solar PPA contract template
 - Risks and Benefits of PPAs
 - A tool and user manual
 - Training on tool and PPAs
 - Facilitation support offered to agencies if a technical advisor is needed



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Contact Details

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NSW ERF, GREP E5

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<http://environment.gov.au/climate-change/emissions-reduction-fund>

<http://www.cleanenergyregulator.gov.au/ERF/Pages/default.aspx>

Street Lighting

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