



Environment,
Climate Change
& Water



Help to build a more sustainable business

Technical support, financial incentives, training and networks for your transition into the low carbon economy.

The Department of Environment, Climate Change and Water NSW helps business to improve environmental performance through technical support, financial incentives and training.

Large Business

Sustainability Advantage



The **Sustainability Advantage Program** is a business support service designed to help your organisation improve environmental performance and productivity.

By joining, your organisation will receive support and services in resource efficiency, staff and stakeholder analysis, carbon footprint analysis and sustainability strategy.

environment.nsw.gov.au/sustainbus/sustainabilityadvantage.htm

Energy Audits



An independent energy audit can be crucial in determining your energy use and identifying projects that will save you money and reduce carbon pollution.

Subsidised energy audits are available to eligible businesses for as little as 20 per cent of the original cost. Highly qualified energy auditors will identify opportunities for your organisation to save energy and will provide business cases with payback periods.

environment.nsw.gov.au/sustainbus/energyauditing.htm

Sector Transformation



Sector Transformation projects support the adoption of cost effective and commercially proven energy efficient technologies. This includes optimising existing equipment or installing new technology.

Current –projects focus on proven energy efficient technologies in lighting, industrial refrigeration and optimising heating, ventilation and air conditioning systems.

environment.nsw.gov.au/sustainbus/sectortrans.htm

Energy Efficiency Training Program



The **Energy Efficiency Training Program** is facilitating new training projects to build the skills of tradespeople and professionals in energy efficiency practices, products and services. Already 20 projects are underway. Each will produce industry specific training packages that will be available to the public in 2011.

environment.nsw.gov.au/sustainbus/greenskills/eneftraining.htm

Small business

Energy Efficiency for Small Business



The **Energy Efficiency for Small Business Program** offers up to \$5,000 for buying and installing energy efficient equipment.

Businesses receive a tailored energy assessment and Energy Action Plan, and up to four hours free support to coordinate installation.

environment.nsw.gov.au/sustainbus/smallbusenergy.htm

Building ratings

NABERS



The **National Australian Built Environment Rating System (NABERS)** rates the environmental performance of existing buildings on 1-5 star scale.

NABERS rates a building on the basis of its measured operational impacts on the environment, and provides a simple indication of how well you are managing these environmental impacts compared with your peers and neighbours.

nabers.com.au/default.aspx

Energy savings certificates

Energy Savings Scheme



The **Energy Savings Scheme** creates tradeable Energy Savings Certificates (ESCs), with every MWh saved representing a tonne of CO₂ savings.

If your business is investing in energy efficiency, or can aggregate the energy savings of others, consider accreditation under the Scheme.

ess.nsw.gov.au

Business Guides

Business Guide to the Low Carbon Economy: NSW



The **Business Guide to the Low Carbon Economy: NSW** is an information tool about NSW climate change policy and issues that your business needs to consider when developing a climate strategy.

Get practical steps for businesses to get on top of measuring and curbing greenhouse gas emissions from your operations.

theclimategroup.org/publications/2009/11/1/the-business-guide-to-the-low-carbon-economy-nsw/

NSW Government action on climate change

The Department of Environment, Climate Change and Water NSW (DECCW) is implementing strategies to minimise the impacts of climate change, reduce greenhouse gas emissions and ensure the people of NSW prosper in a low-carbon economy.

Visit www.environment.nsw.gov.au/climatechange/government for a more detailed overview of NSW Government action on climate change.

Plug-in hybrid electric vehicles

In 2009, the Department of Environment, Climate Change and Water commissioned the Institute for Sustainable Futures at the University of Technology, Sydney, to convert a Toyota Prius to a plug-in hybrid electric vehicle. This vehicle – called SWITCH:

- is Australia's first plug-in hybrid electric vehicle with vehicle-to-grid capacity. Not only can it draw electricity from the grid when re-charging its batteries, but it can also feed back into the grid, presenting the potential to act as an energy storage device with the capacity to supplement the grid at peak times.
- has lower fuel consumption and emissions compared to a standard hybrid.
- is cleaner than an internal combustion engine vehicle even when it is powered by conventional coal-fired electricity.

www.environment.nsw.gov.au/cleancars/index.htm

Energy Savings Scheme

The Energy Savings Scheme offers participants an opportunity to reduce the cost of energy efficiency projects by creating a tradeable certificate for energy savings activities. By implementing a recognised energy savings activity, accredited participants are eligible to create Energy Savings Certificates (ESCs or eskies) for each megawatt hour (MWh) of electricity saved. The eskies can then be sold to electricity retailers and other organisations with Government specified obligations. The income from the eskies offsets the upfront costs of the energy savings activity, plus there is the ongoing savings from a lower electricity bill and reduced greenhouse gas emissions.

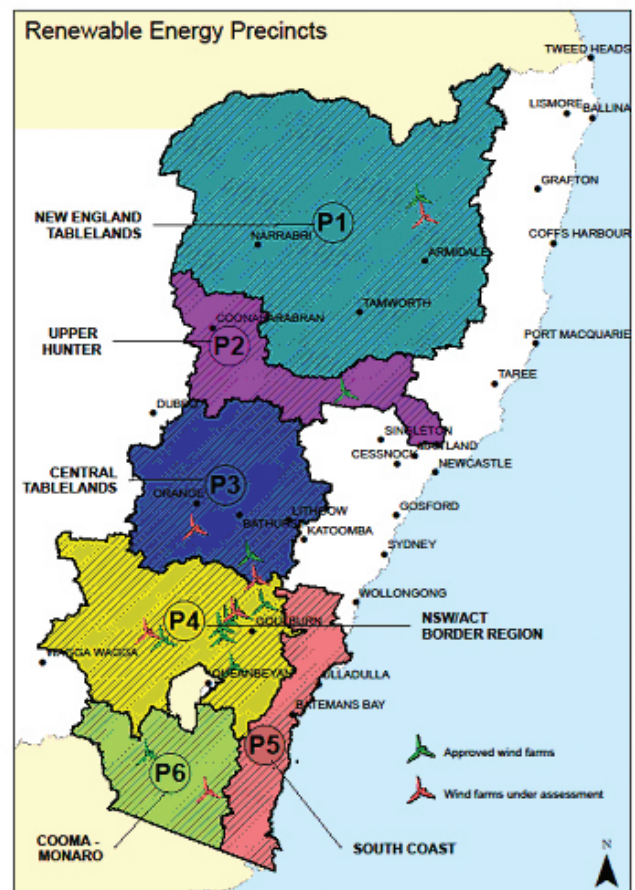
The 2010 target for energy savings is 1.2% of annual electricity sales in NSW (approximately 1 million MWhs) rising to 4% per annum from 2014 to 2020. For more information visit: www.ess.nsw.gov.au

NSW Renewable Energy Precincts

The NSW Government has acted to ensure that NSW seizes some of the investment that will result from the expanded national renewable energy target to 20% by 2020 by establishing six renewable energy precincts across NSW. The precincts are in areas with the best-known wind resources.

So far, the Government has approved more than 2,500 megawatts of wind farm projects and more than 2,000 megawatts are currently in various stages of the development approval process.

www.environment.nsw.gov.au/climatechange/windprecincts.htm



Climate change impacts and adaptation in NSW

The Impacts and Adaptation Section of the Department of Environment, Climate Change and Water (DECCW) is responsible for driving adaptation within DECCW and across the NSW Government, business and the community.

The Impacts and Adaptation Section Programs focus on:

- science and research
- government strategy and coordination
- partnerships and business engagement.

These Programs aim to address the barriers to adaptation by facilitating policy focused scientific research; building understanding of climate risks; and developing capacity for climate change risk management.

Specific projects include:

- The Climate Impact Profile. This report provides a regional snapshot of the State's exposure to climate change, which can be used as a planning scenario for decision makers to build adaptation decisions into their programs:
www.environment.nsw.gov.au/climatechange/understanding.htm
- Establishment of a Government and Industry Forum to share information on climate change risks to NSW's critical infrastructure:
www.environment.nsw.gov.au/resources/MinMedia/MinMedia10050701.pdf
- Supporting the climate risk vulnerability component of the Australian Green Infrastructure Council's infrastructure sustainability rating scheme:
www.agic.net.au/AGICscheme.htm
- Supporting NSW Emergency Services to deal with climate change risks and supporting NSW Health to improve heatwave preparedness.
- A regional vulnerability assessment which will provide information on the most vulnerable sectors and communities in South East NSW.
- Assisting the NSW Department of Planning to incorporate climate change adaptation in the Review of the Sydney Metropolitan Strategy. The Review will consider pilots of climate change adaptation measures for greenfield housing and urban renewal developments:
www.metrostrategy.nsw.gov.au/
- Analysis of carbon stocks and carbon storage potential in NSW public land.