

IMPROVING AUSTRALIA'S ENERGY PRODUCTIVITY AND RESIDENTIAL ENERGY EFFICIENCY

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National Energy Productivity Plan (NEPP)

Improving Australia's energy productivity means *more value* from the energy we consume.

$$\text{Energy productivity} = \frac{\text{economic output (GDP)}}{\text{energy used (PJ primary)}}$$



WHY *improve energy productivity?*



Boosting *competitiveness* and growth



Helping families and business manage their energy *costs*



Reducing greenhouse gas *emissions*



WHAT *are our goals?*

40%
IMPROVEMENT BY **2030**

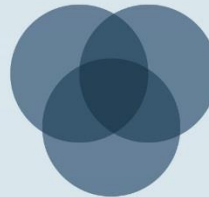


Energy systems that deliver *least cost energy* in the long term interests of consumers

More *informed* energy consumers *managing their energy bills*

2015

Energy efficiency



Energy market reform

Climate change
COORDINATING POLICY



HOW *will we get there?*

Encouraging smarter *choices* through

- efficient incentives
- empowering consumers
- helping business compete



Promoting better energy *services* through

- innovation support
- competitive modern markets
- consumer protections



PROGRESS ON RESIDENTIAL ENERGY EFFICIENCY MEASURES

- **COAG Energy Council committed funding of \$1.7 million in 2016/17:**
 - residential building energy efficiency standards
 - training and skills to improve compliance
 - new NABERS tools, including for apartments
- **Agreed national collaborative approach to energy ratings and disclosure**
- **Accelerating the Equipment Energy Efficiency (E3) program**
- **\$100 million per year towards sustainable cities**

NEPP MEASURE 3 – MAKING CHOICE EASIER

- **A comprehensive review of the total energy consumer journey is being undertaken by Energy Consumers Australia.**

NEPP MEASURE 4 – SUPPORT FOR VULNERABLE CONSUMERS

- **The *ECA Power Shift* project will contribute to both NEPP 3/4.**
- **This three-year research project will undertake an independent review of LIEEP findings and undertake complementary research to:**
 - **improve our evidence-based understanding of what really works**
 - **identify opportunities for market-led solutions and other initiatives**

NEPP MEASURE 5 – ENERGY RATINGS AND DISCLOSURE

- **COAG Energy Council agreed to a national collaborative approach to energy ratings and disclosure for buildings**
- **ACT have a scheme that has been in place since 1999**
- **Victoria is progressing their Residential Efficiency Scorecard**
- **NSW conducted an Expression of Interest process for a voluntary residential energy rating system in December 2016**
- **All jurisdictions will meet regularly to achieve a national collaborative approach**

NEPP MEASURE 22 – DEVELOP AN ENERGY USE DATA MODEL

- **Commonwealth has committed \$6 million to work with the CSIRO, AEMO and industry to develop an Energy Use Data Model (EUDM)**
- **Improve understanding of the impact of appliance use, building characteristics, and technology on electricity consumption**
- **Household survey that links 24 months energy use data with household details**
- **Develop and test methods to protect the privacy of data within the EUDM**
- **Develop and test new aggregation methods such as load clustering to develop representative load behaviours**

NEPP MEASURE 31.2 – NATIONAL CONSTRUCTION CODE

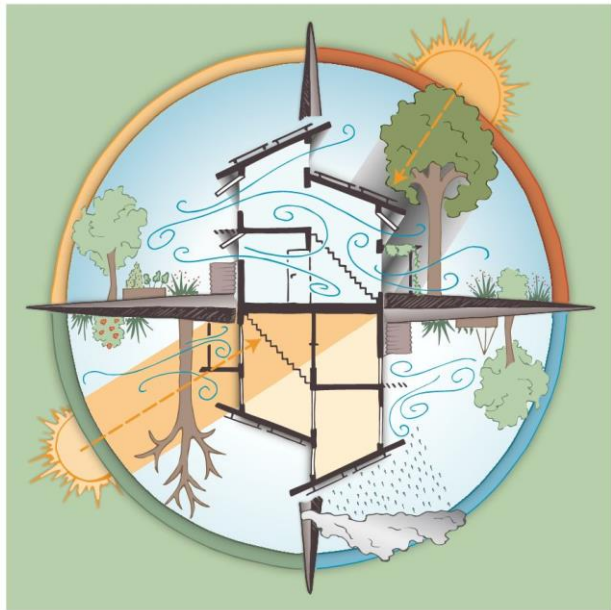
- **Changes are being made to establish a foundation for possible future stringency increases and improvements for greater compliance**
- **Research program is investigating the case for future increases in residential building energy efficiency requirements, including:**
 - **RIS methodology**
 - **Industry changes associated with efficient dwellings**

NEPP MEASURE 32 – ENERGY EFFICIENCY COMPLIANCE

- **Project 1: Improve compliance tools for industry.**
- **Project 2: Improve industry skills and training.**

YOUR HOME AND YOUR ENERGY SAVINGS

www.yourhome.gov.au



www.yourenergysavings.gov.au

The screenshot shows the homepage of the Australian Government's 'Your Energy Savings' website. At the top, there is a green navigation bar with the text 'environment.gov.au'. Below this is the Australian Government logo and the site title 'Your Energy Savings' next to a search bar. A blue navigation bar contains links for Home, Energy, Water, Waste, Travel, Rebates, Guides, Translations, Take action, and Your stories. The main content area features a large image of a woman in a laundry room with a blue text box that reads: 'Your Energy Savings provides information about saving energy, saving money and available government assistance.' Below this are three bullet points: 'Getting started - energy', 'Understand your energy bill', and 'Electricity and gas market offers'. There are two featured articles: 'Spring' with the subtext 'Simple actions to help you prepare your house and garden for the hot summer months ahead.' and 'Energy-saving guide for Northern Australia' with the subtext 'Save energy and stay comfortable in hot arid and tropical climates.' At the bottom, there are three green buttons: 'Rebates' (with a house icon), 'Take action' (with a lightbulb icon), and 'Guides' (with a bicycle icon).

NATIONWIDE HOUSE ENERGY RATING SCHEME

- Nationwide House Energy Rating Scheme – www.nathers.gov.au
- Design for Place free 7 star house plans –

www.yourhome.gov.au/house-designs



OPPPORTUNITIES FOR IMPROVING AUSTRALIA'S ENERGY PRODUCTIVITY AND RESIDENTIAL ENERGY EFFICIENCY

- Engage with the National Energy Productivity Plan measures
- Refer to, use and promote, Your Home, Your Energy Savings, the Nationwide House Energy Rating Scheme and Design for Place
- **Other opportunities:**
 - Strengthen research and the evidence base to support policy. For example, the health and wider benefits of better buildings, how to achieve better buildings.
 - Exploring behaviour and culture change.

RESOURCES AND CONTACT DETAILS

- www.environment.gov.au
- www.yourhome.gov.au
- www.yourenergysavings.gov.au
- www.nathers.gov.au

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