





😭 National Policy Leadership: Australia

"One of our National Digital Economy Strategy goals is to better manage the energy use of our infrastructure and environment. High-speed broadband can help to improve Australia's environmental sustainability by supporting smart technology applications that encourage more efficient use and demand management of water, energy, transport and infrastructure. infrastructure.

infrastructure.

The Australian government has taken a lead in integrating climate change and ICT policies by implementing an ICT sustainability plan to assist in lowering its carbon footprint. Government ICT operations are estimated to be able to improve its energy management up to 20 per cent on current consumption levels by mid-2015. This equates around 325,000 tons of carbon emissions mitigated over the five year plan."

Stephen Conroy, Former Minister for Broadband, Communications and the Digital Economy and Minister Assisting the Prime Minister on Digital Productivity.

Source: Control of Statisticality Robertment of the Environment, Water, Neiriga and the Art., 2010, ISM: 9781-921733-2017. http://www.environment.gov.un/ustainability/government/ictplan/publications/plan



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A hallmark of the Australian approach has been trans-sector cooperation, to extend the benefits of broadband (for which Australia is one of the top 10 economies in the world) to other sectors of the economy, such as environmental protection. In the words of Stephen Conroy, Minister for Broadband, Communications and the Digital Economy and Minister Assisting the Prime Minister on Digital Productivity:

"Across all levels of government, collaboration is necessary to tackle climate change. The Government is committed to ensuring that all stakeholders are aware of initiatives that are underway and of their value. It has adopted a whole-of-government strategy to address climate change via the ICT Sustainability Plan and its environmental goal within the National Digital Economy Strategy."

Source: The Broadband Bridge: Linking ICT with Climate Action for a Low-Carbon Economy, a report by the Bro



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- In 2009 the government announced a Mandatory Renewable Energy Target of 45,000 MW (20% of its electricity supply) to come from renewable energy sources by 2020. The Clean Energy Future legislation committed to cutting GHG emissions by at least 5% compared with 2000 levels by 2020, and 80% below 2000 levels by 2050.
- Smart grid policy was deemed integral to this energy strategy. The National Framework for Energy Efficiency included developing standards, and tackling regulatory hurdles that impede adoption of smart grid technologies.



- With broad, multi-stakeholder consultation, the government kick-started an AUD\$100 million (USD 100 million) **Smart Grid, Smart City** program as part of its National Energy Efficiency Initiative.
- Source: The Broadband Bridge: Linking ICT with Climate Action for a Low-Carbon Economy, a report by the Broadband Commi uture: The Australian Government's Climate Change Plan, ISBN 978-0-642-74723-5, 2011, Australian Government, http://www.cleanenergyfuture.gov.au/wp-content/uploads/2011/07/Consolidated-i-of the Future, ISBN 978-0-642-74721-1, 201, Australian Government, http://www.cleanerii-auf-putseli-auf-

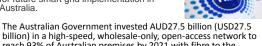




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The National Broadband Network (NBN) was identified as a significant potential platform for future smart grid implementation in



billion) in a high-speed, wholesale-only, open-access network to reach 93% of Australian premises by 2021 with fibre to the premises technology, with the remaining 7% to be connected with next generation fixed wireless and satellite technologies.

Source: The Broadband Bridge: Linking ICT with Climate Action for a Low-Carbon Economy, a report by the B 71 National Broadband Network: Progress Update, 2010-13537# 02 NBNI, Australian Government, Aug 201:





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The NBN underpins the National Digital Economy Strategy, which sets eight Digital Economy Goals, two of which target climate change

- to extend national access to smart technology by 2020 to better manage energy use; and double the level of teleworking to at least 12 percent of Australian employees. The NBN can enable more Australians to telework
- ccess Economics has estimated that if 10% of Australian employees were to telework 50% of the time, total annual ins of AUD1.4-1.9 billion (USD 1.4-1.9 billion) could be delivered, including savings of 120 million litres of fuel.

ure: The Broadband Bridge: Linking (CT with Climate Action for a Low-Carbon Economy, a report by the Broadband Commission, 71 Nat Joudhand Network: Progress Update, 2010: 135379 02 NBM, Australian Government, Aug 2011. <a href="https://www.nbs.gov.gov/progress/pubment/pubment/2016/journey-pubment/2016/

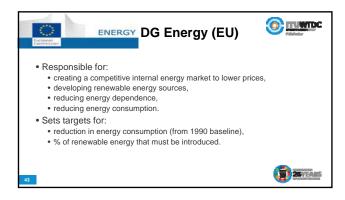




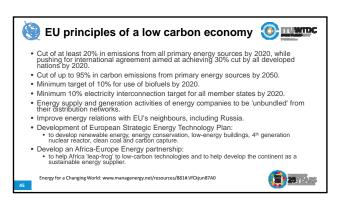


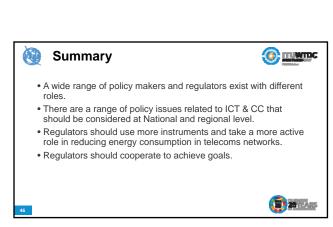
Next: Case study on EU DG Energy













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