

Australia

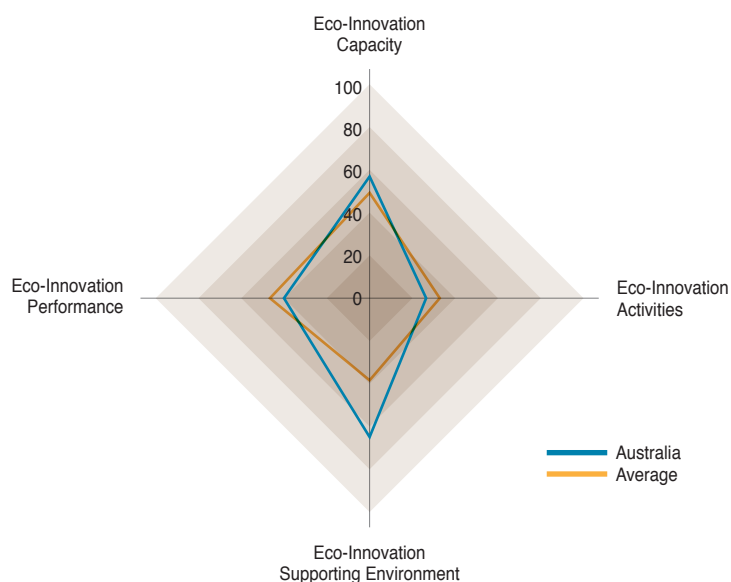





Fig 13. ASEI Result: Australia


Australia's Eco-Innovation Quantitative Analysis

According to the ASEI 2013, Australia scores average on the scale (Australia: 47/100, Average: 43/100) when compared to other twenty four ASEM member countries evaluated by the ASEI.

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"Eco-Innovation Capacity" criteria score is above average: it is significant to note that **Green Technology R&D Institution Capacity** indicator shows high score whilst **Green Technology possessed/acquired Firms** indicator shows a below average score.
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"Eco-Innovation Supporting Environment" criteria score is above average: The **Government's R&D Expenditure in Green Industry** indicator far outweighs the average score. **Maturity of Investment Setting for Green Technology Industry** and the **Investment Scale towards Green Technology SMEs** show slightly higher scores than the average.
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"Eco-Innovation Activities" criteria score is below average: indicates a **Firms' Participation on Environmental Management System** and **Activity of Renewable Energy Utilization** indicators are below average, and the rest including **Commercialization Level of Green Technology** and **Green Patents** are within the average level.
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"Eco-Innovation Performance" criteria score falls below average: **Level of Environmental Impact on Society** indicator scores high, but **Jobs in Green Technology Industry**, **Green Industry Market Size** and **CO₂ emission intensity** are considerably lower.

Australia's Eco-Innovation Supporting Environment: Qualitative Research

| | National Vision & Strategy | National Policy & Programmes | Network, Partnership & Organizations |
|-------------------------|---|---|--|
| Eco-Innovation | <ul style="list-style-type: none"> ■ Backing Australia's Ability (2004) ■ Renewable Energy Target (MRET) | <ul style="list-style-type: none"> ■ Greenhouse Challenge Plus ■ Advanced Electricity Storage Technologies (AEST) ■ Low Emissions Technology Demonstration Fund ■ Local Greenhouse Action <ul style="list-style-type: none"> - Cities for Climate Protection (CCP) - Travel Demand Management - Cool Communities ■ Solar Cities (2004) ■ Solar Hot Water Rebates Programme ■ Green Power Scheme (1997) ■ Measures for a Better Environment (greenhouse gas reduction programmes) (2000) ■ Biofuel Capital Grants (2003) ■ Renewable Energy Development Initiative (REDI) (2004) ■ Low Emissions Technology and Abatement (LETA) (2005) | <ul style="list-style-type: none"> ■ Commonwealth Scientific and Industrial Research Organisation (CSIRO) ■ Victorian Eco-Innovation Lab ■ Clean Energy Finance Corporation ■ Australian Renewable Energy Agency (ARENA) |
| Sustainable Development | <ul style="list-style-type: none"> ■ National Average Fuel Consumption (NAFC) target ■ National Climate Change Adaptation Framework (2006) ■ The Australian National Research Priorities (2002) ■ Building Code Australia | <ul style="list-style-type: none"> ■ Nation-wide House Energy Rating Scheme ■ National Plan for Water Security ■ Australian Government Water Fund ■ National Solar School Programme ■ Australia's Climate Change Policy (2007) | |
| SMEs | | <ul style="list-style-type: none"> ■ Renewable Energy Equity Fund (REEF) (1997) | |

Table 8. Australia's Eco-innovation Supporting Environment Qualitative Research Table

Major Organizations of Eco-Innovation in Australia

- Commonwealth Scientific and Industrial Research Organisation (CSIRO)
- Clean Energy Finance Corporation

Overall Comments for Australia

- Australia mainly implements eco-innovation through its goals to convert to "Clean Energy Economy" in 2011. The Australian government is focusing on renewable energy development, establishing huge investment in R&D organizations in manufacturing industry and strengthening environmental regulations. As the major coal export country¹⁷⁾, the CCS (Carbon Capture and Storage) industry for the clean production of fossil fuels is an important part of eco-innovation. The country has established an organization for international CCS technology standard¹⁸⁾ research.
- To facilitate eco-innovation supporting environment, the government is expected to introduce carbon tax and ETS at the same time, increase incentive for investment in energy efficiency facilities and expand green technology consulting services. Such actions are expected to provide wider commercial opportunities for green products, services and technology. Presently, Australia is moving towards the right path as recent reports have indicated that the Australian government invested \$13 billion to commercialize green technology.¹⁹⁾

17) World's 2nd in Coal export volume. IEA, (2012), Key World Energy Statistics

18) Currently, companies, power plants and research institutes are participating in 20 projects

19) Clean Energy Finance Corporation, Australia Renewable Energy Agency(ARENA)