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Department of Resources,  
Energy and Tourism

# International Hydrogen Fora: Australia's participation

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# Overview

- This presentation covers:
  - Australian Government policy on renewable and clean energy technology
  - Australian Government activities in hydrogen
  - Australian Government participation in international hydrogen fora



# Government support

- Australia's abundant resources for energy; both fossil and renewable fuels
- Support for renewables: mandatory RET: 20 per cent by 2020
- Support for clean energy: Clean Energy Initiative: \$5.1 billion
  - Australian Centre for Renewable Energy
  - Solar and Carbon Capture and Storage Flagships
  - Renewable Energy Future Fund



# Hydrogen

- Australian Government support:
  - National Research Flagships Program from 2007-08
  - This program provided \$10 million in funding for the National Hydrogen Materials Alliance from 2006 to 2009
  - Australian Research Council: National Competitive Grants Program
  - Support for international engagement
    - IEA-HIA, IPHE



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# Previous

## Commonwealth funding for H2

- Hydrexia: two grants to develop a storage system based on magnesium alloy technology;
- Wizard Power: Big Dish project, for solar to electricity conversion
- Airspeed: lightweight gas cylinders to store CNG and hydrogen for transport use
- CSIRO conducts research into hydrogen technologies



# Hydrogen Roadmap

- Australian government launched the hydrogen roadmap in 2008, to ensure credible decisions on hydrogen through to 2020
- Contained a number of key strategies, including a RET, knowledge building and international engagement
- Recognised the need to ensure that hydrogen and fuel cells are actively maintained as options for a future low-carbon economy and society
- This will require ongoing consultation with AAHE



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# International Fora 1

- Australia is a member of the International Partnership for the Hydrogen Economy
- Attended last Steering Committee Meeting and FCV forum in Shanghai, Sept 2010
  - Country updates
  - IPHE Outreach program
  - RCS and Education Working Groups
  - Future workshops
- Australia will continue to engage



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# International Fora 2

- CSIRO participates in the IEA-Hydrogen Implementing Agreement
  - There are currently 11 active tasks
  - 3 Australian researchers participate in two tasks, Hydrogen Storage (22) and High Temperature Hydrogen Production (25)



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# Conclusions

- RET will continue to:
  - actively monitor developments in hydrogen research in Australia
  - engage with the AAHE and CSIRO on possibilities for industry development
  - facilitate industry participation in international fora
- We welcome the establishment of the AAHE and look forward to a constructive working relationship.



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# Conclusions

Thank you!

Questions?