



Australian Government
Department of Resources,
Energy and Tourism

Australia's Geothermal Developments

ENHANCING AUSTRALIA'S **ECONOMIC PROSPERITY**



Clean Energy Framework

- **Emission reduction targets**
 - By 2020: 5 per cent below 2000 levels
 - Proposed: 80 per cent below 2000 levels by 2050
- **Clean Energy Future Plan**
 - Renewable Energy Target 20 per cent by 2020
 - Carbon Pricing Mechanism
 - \$3.2 billion in programs under the Australian Renewable Energy Agency (ARENA)
 - \$10 billion Clean Energy Finance Corporation (CEFC)



Support for Geothermal

- **\$153m under the Renewable Energy Demonstration Program for two geothermal demonstration projects.**
 - Geodynamics Innaminka Project
 - MNGI Petrathern Paralana Project
- **\$126 million Emerging Renewables Program**
- **Immediate tax reduction for the exploration of geothermal energy from 1 July 2012.**
- **ACRE Geothermal Reports**



Emerging Renewables Program

- **\$126 million for flexible and integrated program**
- **Two funding streams:**
 - Projects: to progress renewable energy and enabling technologies as they move through the innovation chain and to lower the cost of renewable energy in Australia
 - Measures: for renewable energy industry capacity building and skills development
- **Program launch and call for applications - 8 August 2011**
- **National ICT Australia \$1.9m grant – 8 March 2012.**



State of the Australian Geothermal Sector

- **Access to capital to undertake projects**
 - High risk nature of these early-stage proof-of concept projects;
 - Sub-optimal results from some early geothermal projects;
 - Lack of investor certainty on a price on carbon; and
 - Need for high amounts of capital when compared to other technologies.



State of the Australian Geothermal Sector

- **Investigating geothermal flow rates**
 - Temperature and heat are relatively well understood
 - Working towards better prediction of flow rates in order to prove up commercially viable systems.



Projects in Australia

- **Birdsville Organic Rankine Cycle Plant**
- **Geodynamics Innamincka Project**
- **Petratherm Paralana Project**
- **Several Direct Use projects**
 - Challenge Stadium, Perth
 - Geoscience Australia Building, Canberra
 - Pawsey Supercomputing Complex



Opportunities for Collaboration

- **Australia is a member of the International Partnership for Geothermal Technology (IPGT).**
- **IEA-Geothermal Implementing Agreement.**
- **Australian Geothermal Energy Conference – November 14-16, 2012, Sydney, NSW.**
- **World Geothermal Congress in 2015 – will be hosted in Melbourne, Australia.**



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THANK YOU

More information:

www.ret.gov.au

www.cleanenergyfuture.gov.au

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