



Australian Government

Department of Industry, Tourism and Resources

Geothermal Energy in Australia

Creating an Industry Development Framework

REGA, April 2007

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Outline

- **Industry potential**
- **Current status**
- **Industry Development Framework**
- **Initial industry views**
- **Next steps**



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Industry Potential

- **Low-emission base load renewable electricity**
- **Other applications**
- **Low cost (?)**
- **Vast Australian resource**
- **Export potential**

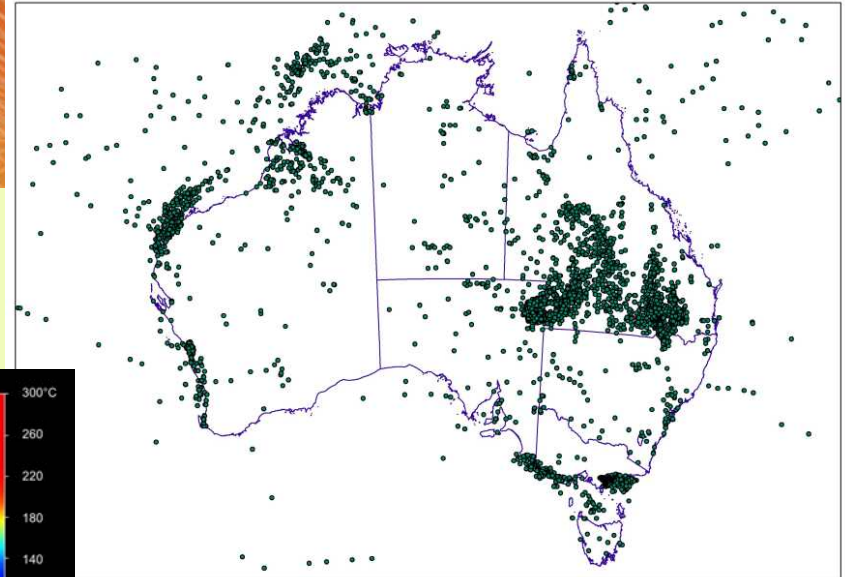
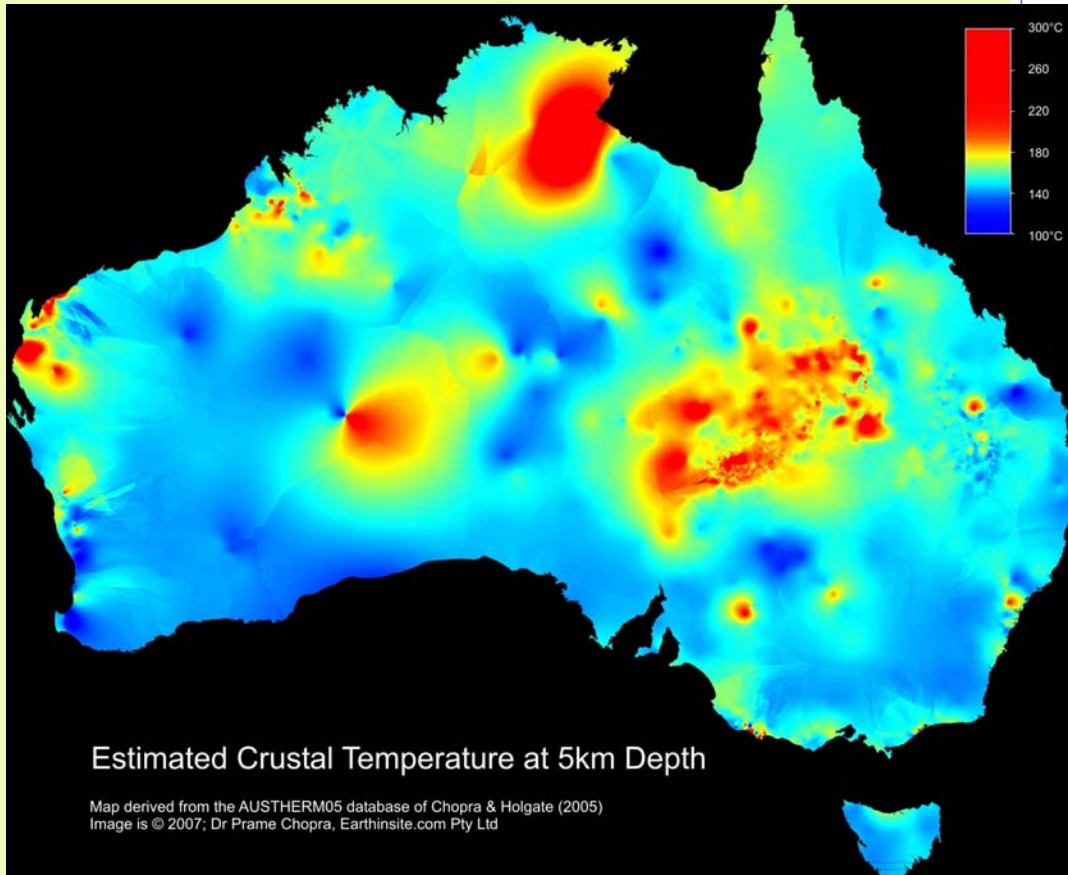


Australian Geothermal Industry

- **16 companies**
 - 4 are exploring and drilling
 - 12 others with exploration licences
 - \$570m in associated work programs (2002-2012)
- **5 research groups**
- **7 Australian Government grants (\$27m)**
- **Geoscience Australia funded to improve mapping**



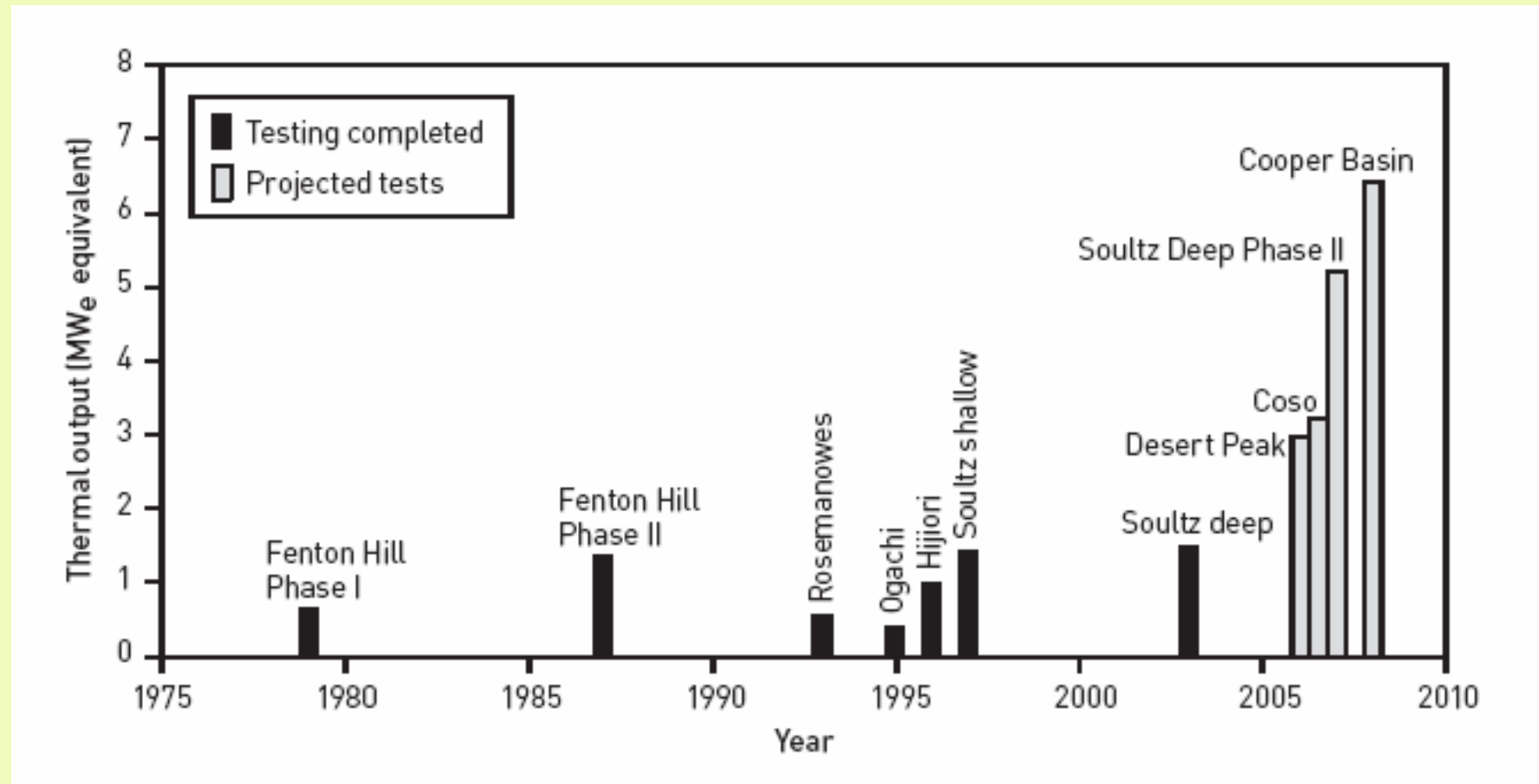
5km Temperature Map



- Some areas over sampled, most under sampled
- Most data from petroleum wells
- Geoscience Australia working to improve datasets



Worldwide Status



Tester et al, MIT, 2006 (Fig 4.16)



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Industry Development Framework

- An 'Industry Development Framework' is an agreed plan for action by industry and government – a partnership.
- The *Geothermal Industry Development Framework* will include:
 - strategic assessment of the industry
 - opportunities and impediments to growth
 - 'technology roadmap'
 - coordinated government, industry and research actions
 - recommendations to governments (COAG)
 - strategy for accelerating industry development
- **Completion early 2008**



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Geothermal Industry Roundtable

- **Parliament House, Canberra, 27 March 2007**
- **Hosted by Ministers Macfarlane and Turnbull**
- **50 attended:**
 - companies, researchers, REGA, BCSE, IEA
- **Workshop:**
 - scoping the *Framework*
 - stakeholder engagement

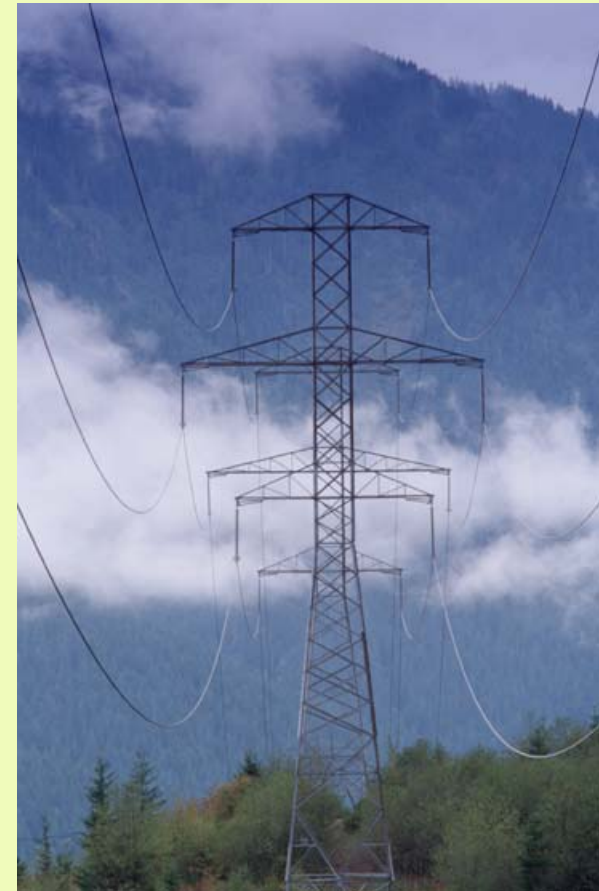


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Initial Industry Issues

- **financing**
- **resource security**
- **pre-competitive exploration data**
- **drilling costs**
- **technology research & development**
- **uniform regulation**
- **grid connection**
- **community education**
- **insurance (risk)**





Process for Developing the *Framework*

- Circulate workshop outcomes
- Engage states/territories
- Develop workplan (stakeholder agreement)
- Engage consultants
- Series of meetings, site visits, workshops etc
- Drafting, consultation, negotiation
- Completed *Framework* to Ministers early 2008