

AGEG TIG Reports for AGEG Meeting # 5, 20 – 21 November 2008

1. TIG #9: Data management

2. TIG Leader(s) names with affiliation and email address:

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3. TIG Members names with affiliation and email address:

Tony Hill	PIRSA
Ameed Ghori	GSWA
Ian Scrimgeour	NTGS
Jim Beeston	GSQ
Ricky Mantaring	NSW DPI
David Taylor	Vic DPI/GSV
Clive Calver	MRT
Graeme Beardsmore	Hot Dry Rocks Pty Ltd
Helen Gibson	Intrepid Geophysics
Cedric Jorand	FrOGTech

4. Scope of TIG

Objective: Assist the development of the Australian geothermal industry by simplifying data availability, usefulness and exchange through standards, database design, contents, ongoing enhancements and development of manipulation and interpretive tools.

List of sub-TIG Topics:

Key issues to be addressed by TIG #9 include but not limited to:

Bottom of Hole temperature data	Austherm database.
Heat Flow database	Under development by GA – agreement with States.
Well production	Capture production status of Australian wells
Measurement standards	For temperature logging, thermal conductivity – being led by HDRPL. Relevant to the Geothermal Code.
Geothermal Lexicon	Develop an international geothermal language and dictionary
Interoperability standards	Agreed data exchange formats
3D temperature & heat flow forward modelling capability	Tied Grant project completed by Intrepid Geophysics.

What's not (and why)?

Seismic data – covered in TIGs 1 & 10B.

5. Lessons learnt

what has worked well?

what can work better?

ideas for improving performance:

6. Initiatives

Complete:

Development of an extension to 3D GeoModeller to enable prediction of 3D temperature and heat flow from inputted heat production and thermal conductivity.

In Progress:

Populate heat flow database with new data. As database structure is refined, promulgate data dictionary ± structure amongst State geological surveys.

Liaising with US DoE, Southern Methodist University and Google regarding web interoperability standards.

Planned:

Scoping plan for building data system within Onshore Energy and Minerals Division of Geoscience Australia. This work may be scheduled to start in the 09/10 financial year.

Release new map of predicted temperature at 5 km map and dataset. Timing of release is dependant on reaching agreement with Earth Energy Pty Ltd. The map will also be made available to view in Google Earth.

7. Tabulation of projects

Theme	Project Name	Summary of key project objectives, Key Contact and Links to Details	Research Partners
AGE TIG 9 Geology Data Management	Forward prediction of spatial temperature variation from 3D geology models	Develop model for rapid calculation of spatial variations of temperature from 3D geology. Compare model-derived temperatures with observed to refine model. Demonstrate methodology via a case study of Petrathem's Parana Project. Budget: \$110,000 (\$27,500 from PIRSA Tied Grant; balance from sponsor participants) Key Contact Insert Email For further information - visit: Insert hyperlink to webpage set up by researcher – and/or on AGE TIG 9 web pages	<ul style="list-style-type: none"> ◆ Intrepid (Gibson & Calcagno), ◆ GA (Budd) ◆ Petrathem (Reid) ◆ Eden Energy (Jeffress) ◆ PIRSA (Hill)