

National Geothermal Collaborative Steering Committee

Final Meeting Summary

February 17 and 20, 2004

Conference calls

In Attendance:

February 17th:

Diana Bates, GEA
Janine Clayton, Forest Service
Paul Dunlevy, BLM
Troy Gagliano, NCSL
Karl Gawell, GEA
Roger Hill, Sandia & GPW
Jack Piggot, Calpine
Joel Renner, INEEL
Marilyn Semro, Seattle City Lights

February 20th:

Diana Bates, GEA
Liz Battocletti, Bob Lawrence Asso.
Janine Clayton, Forest Service
Troy Gagliano, NCSL
Karl Gawell, GEA
Paul Dunlevy, BLM
Gordon Hansen, BLM
Arlene Rocabado, Southern Cal. Edison
Dan Schochet, Ormat & GRC
Marilyn Semro, Seattle City Light

Meeting Objective

To complete step one in the consensus process for the Issue Briefs – a thorough revision of the documents to include member’s issues and concerns.

Documents Reviewed

Members of the Steering Committee used two conference calls to review the remaining six Issue Briefs:

February 17, 2004

- Common Questions
- Technology and Costs

February 20, 2004

- Resource Location
- Direct Use
- Economic Development

Changes/Discussion

For a full account of the changes accepted, editorial and substantive, please review the revised documents (to be emailed to Member’s in March). Following are key editorial changes that refer to multiple Briefs:

Editorial Elements:

- Style – express numbers over ten numerically
- Reference OIT as the Geo-Heat Center, OIT

Major Discussions Topics:

- Temperatures – what are the appropriate ranges for high, medium, and low resources; measured from where; ranges for electricity generation or direct use; and the difference

between the technical requirement and the commercial requirement. The group agreed to some numbers in general, but requested consultation with John Lund, Gordon Bloomquist and Joel Renner.

- Location – what states are included in the term “Southwest”
- Consistency – all papers should be consistent regarding statistics and facts – temperatures, available percentages, cents per kilowatt hour
- Dependability – diminishment of the resource is a function of management- not an absolute; current design criteria is for 30 years, although for Glass Mountain it was 40 years
- Clarify what is the Resource – the resource is the heat and the water is the vehicle/medium
- Life-Long Source – geothermal plants, once sited, have a life-long source of fuel, unlike fossil fuel plants that require a constant purchasing of fuel
- Map – the available maps show the resource in different ways but they are all based on 1979 data; there needs to be greater resource characterization of the resource

Action Items

- *Accurate temperature numbers* – NCSL will contact Joel Renner, Gordon Bloomquist and John Lund
- *Greenhouse financial numbers for one year* – Milgro Greenhouses – NCSL will contact Bill Gordon
- *Direct Use Chart from the Small Business Workbook* – Troy Gagliano, NCSL, will send it to RESOLVE to distribute to the Steering Committee for feedback
- *Capital Costs for the examples in the Technology and Costs Brief* – Troy Gagliano, NCSL, will review the Small Business Workbook or call John Lund for these costs
- *Numbers for Ormat’s plants in Imperial County* – Dan Schochet, Ormat, will send the property tax amount and verify the Megawatt generation and approximate worth numbers given in the meeting and send to RESOLVE

Next Steps

- NCSL will integrate the changes and send the revised documents to RESOLVE.
- RESOLVE will search for and establish a date/time in March for the quarterly meeting.
- RESOLVE will distribute the revised Issue Briefs for comments prior to the March meeting.
- Steering Committee will send their comments on the revised Issue Briefs to RESOLVE following receipt of the documents and prior to the March meeting, if possible.