



MASTER PLAN

HAWAII GEOTHERMAL /CABLE PROJECT

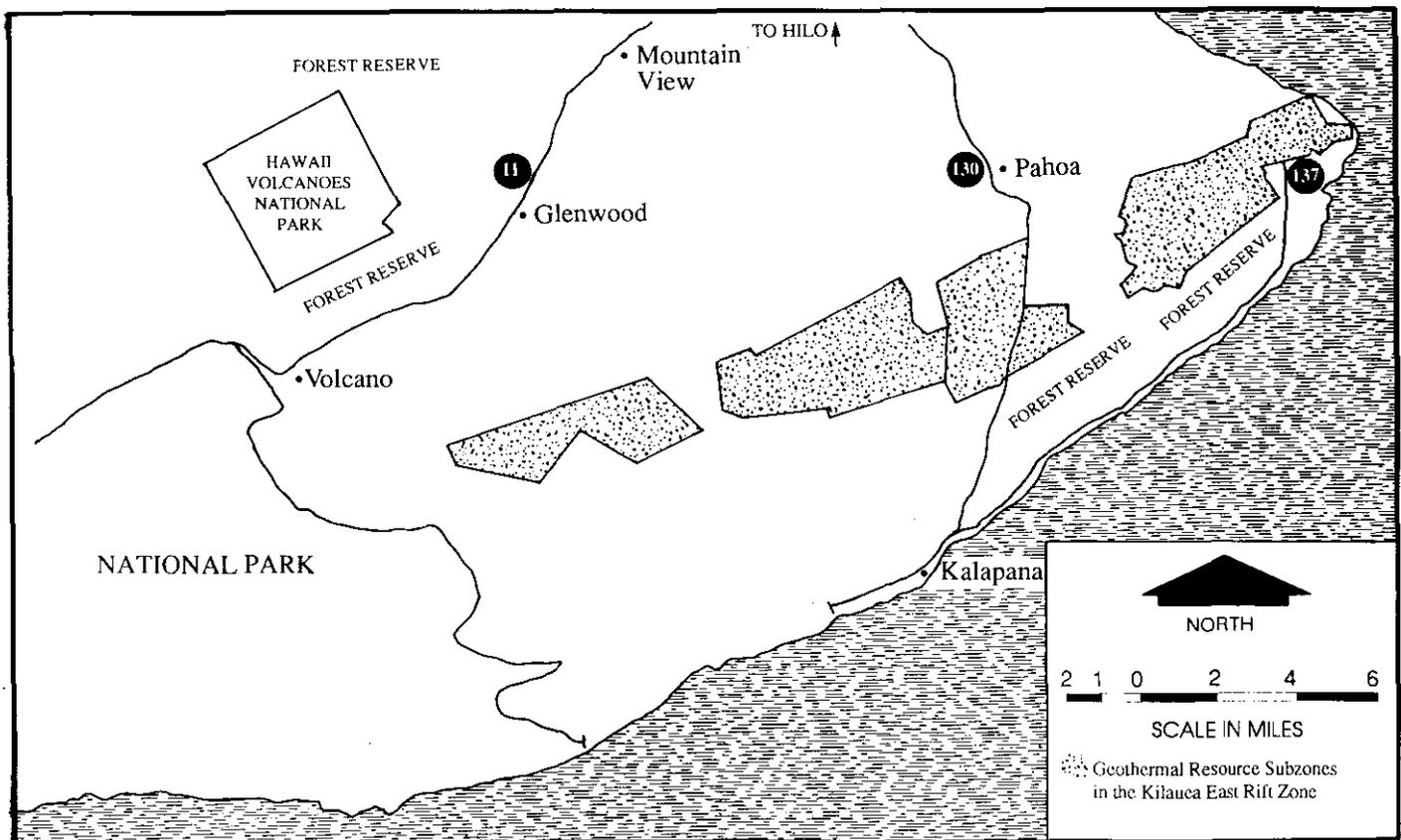
Community Concerns to be Reflected in Geothermal Planning

The process of planning for development of geothermal resources in the Big Island's Kilauea East Rift Zone is now under way. The State Department of Business and Economic Development awarded ERC Environmental and Energy Services Company (ERCE) the contract to prepare a comprehensive Master Plan that will:

- Reflect community and environmental concerns in recommending ways to develop the geothermal resource to produce electricity for the Big Island, and for export to Oahu and possibly Maui.

- Incorporate community, environmental, and technical considerations in selecting an overland transmission line corridor.
- Describe the components of an undersea cable system to transmit electrical power from the Big Island to Oahu.

The Master Development Plan will specifically address the environmental, social, and economic concerns involved in developing the geothermal resource and the transmission system. Recommendations on how to best resolve those concerns will be made.



Public is a Priority in Planning

Consulting with the public is a priority item in the Master Planning process.

Both the State and ERCE are committed to hearing from members of the public, community organizations, government officials, and special interest groups about ways to address concerns over geothermal development and the transmission system.

The first in a series of informational meetings on what the Master Development Plan will cover will be held October 11 from 6:30 to 8:30 p.m. at the Pahoehoe Neighborhood Center. Another is scheduled for October 12 from 6:30 to 8:30 p.m. at Kuhio Hale in Waimea. Representatives of ERCE and the State will be there to explain the planning process and hear what people would like the master plan to include.

In addition, a series of special meetings and working sessions will be held later this fall to discuss ways to address specific issues. Information from these public meetings and discussions will be used in preparing a preliminary draft of the master plan.

When the preliminary draft is completed and reviewed, additional public comment will be requested, and another round of meetings and workshops will be held on the Big Island, Maui, and Oahu. Necessary changes or updates will be included in the final Master Development Plan for developing the geothermal resource.

The Plan Managers

FRANK KINGERY is the Project Manager for the Master Development Plan, and is in charge of the firm's Hawaii office. He has 18 years of experience with the company and is a registered geologist, with extensive experience in managing environmental studies associated with geothermal development, master planning, and permit support for regulatory review at the local, state, and federal levels.

He also has managed projects involving fossil fuel and solar power plant facilities in addition to geothermal development. His technical specialty is performance of geotechnical analyses, having completed more than 100 such studies and presented expert testimony before many government boards and commissions.

Frank will be responsible for the overall management of the Master Planning process, and is the senior ERCE representative in its Hawaii office.

JOHN PORTEOUS will be ERCE's Project Coordinator, supervising preparation of the Master Plan and the work of the firm's sub-consultants in the planning process.

John has worked for ERCE for nine years, and has extensive experience in planning and development of geothermal and other energy projects. He supervised the process of obtaining federal, state, and local permits for geothermal developments in Imperial County, California, and was environmental coordinator for Southern California Edison's pilot geothermal project near the Salton Sea in California.

Development: A Separate Process

The State of Hawaii and Hawaiian Electric Company are involved in a two-stage approach to planning and developing geothermal energy resources.

The first phase — the Master Planning process — has just begun, under the direction of ERC Energy and Environmental Services Company.

The second phase is a joint effort by the State and Hawaiian Electric to ask private firms to submit proposals to develop geothermal energy, build the required facilities, and generate electrical power. Five developer groups have indicated interest in responding to the State/HECO request for proposals. Each group is now preparing financial and technical proposals, which must be completed by the end of 1989. Final selection of a development consortium will occur in mid-1990.

FOR MORE INFORMATION...

...about the
Master Plan process, contact:

ERC Environmental and
Energy Services Co.

Suite 1550
900 Fort Street Mall
Honolulu, Hawaii

The Planning Schedule

September/October 1989

Collect and review
existing technical data

October/November 1989

Begin public workshops
and meetings on the
Master Development
Plan

January 1990

Prepare alternative
transmission corridor
maps

Hold public workshop
on corridor alternatives

March/April 1990

Complete Preliminary
Master Development
Plan

May 1990

Hold public meetings
and workshops on Master
Development Plan

Begin preparation
of Environmental
Impact Statement (EIS)

August 1990

Complete Final Master
Development Plan

October 1990

Complete Draft EIS

February 1991

Complete Final EIS

What the Master Plan Process Will Do

- Provide a conceptual description of the entire Hawaii geothermal/cable project, which integrates:
 - Exploration
 - Well field development and operation
 - Power plant construction and operation, and
 - Transmission line and subsea cable deployment and operation
- Describe the setting and location of all project elements.
- Explain important environmental issues and limitations to be considered and addressed.
- Describe current regulatory, permitting, compliance, monitoring, and enforcement procedures and recommend ways to make them more effective.
- Outline schedules, costs, and management structures required for development.
- Produce an Environmental Impact Statement addressing potential effects of the geothermal/cable project, recommending measures to reduce potential adverse effects, and describing feasible alternatives.



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