# **Dissemination of Geothermal Knowledge**







**Iceland GeoSurvey (ÍSOR)** 

## **University**

Lecturing

ÍSOR has established cooperation contracts with Icelandic academic institutions, and members of ÍSOR's staff hold visiting professorships at the University of Iceland and ISOR specialists act as parttime lecturers in various fields of geothermal knowledge at the University of Iceland and Reukiavík Universitu.

samkvæmt með verksamningum við orkufyrirtæki, Orkustofnun og aðra á frjálsum markaði.

Geothermal energy utilization is widespread in Iceland. Almost 90% of houses are geothermally heated. Almost 17% of the electricity generated. Half of the country primary energy supply comes from geothermal sources.

ÍSOR and its predecessors have played a major role in this development by proviting scientific service to the geothermal industry and advice to the government of Iceland. ÍSOR has been active in promoting geothermal development by enhancing public



## **Public Database**

## Internet

ÍSOR and its predecessor have the most comprehensive set of data on research and exploration of geothermal areas in Iceland as well as on their exploitation, well drilling, monitoring and geothermal reservoir management.

A part of this data is avalible on an interactive map interface. "Gagnavefsia" which is accessible over the internet This webservice is meant to serve different user groups, the public as well as power companies and contractors. It is presented in Icelandic and English





## **The United Nations University Geothermal Training Programme**

Training and lecturing

The most comprehensive dissemination activity is ÍSOR contribution to the United Nations University Geothermal Training Programme (UNU-GTP). About 60% of all its training is provided by ISOR. The trainees work along with our professionals, and acquire knowledge in various aspects of geothermal research, exploration, and development. The UNU-GTP has been very successful in world-wide capacity building in the field of geothermal energy.

### Geothermal Training Programme (GTP), since 1979

- 6 months annual courses
- Mainly for professionals from developing countries
   Each trainee attends only one specialized course
- Participants approx. 20 per year
   Financed by the Government of Iceland and the UNU
- Administered by Orkustofnun

### MSc programme, since 2000

- . Cooperation between the UNU-GTF
- and the University of Iceland Participants approx. 6-9 per year

## Short courses and workshops

- In Africa, Central America and Asia
- The government of Iceland is funding contribution towards the Millenium Development Goals of the IIN

## El Salvador [25] (6) Nicaragua (ICEIDA)

### Workshop for Decision Makers on Geothermal Projects in Central America

Short Course on Geothermal

Resource Assessment and **Environmental Management** 25 November - 2 December 2007.

subjects, there were practical excercises subjects, there were practical excercises (several working groups) in reservoir resource assessments of geothermal fields from several countries and in environmental management planning for specific geothermal fields.

Development in Central America

26 November - 2 December 2006. The aim of the Workshop was to give high level decisio ministries, leading geothermal agencies, and electric utilities in the region an overview of some of the key ssues of geothermal development, with a special foc

www.unugtp.is



November 2 - 12 2002 The purpose of the short course was to give an ine purpose or the short course was to give an overview of methods used in surface exploration, to lass on knowledge of the status of surface geothermal exploration in East Africa and to further the geothermal cooperation between the East African countries.

Short Course II on Surface Exploration

for Geothermal Resources

Development collaboration

Contract between ISDR and ICEIDA. A 5 year project is underway. It implies the dissemination of knowledge a well as technical assistance and capacity building under the auspices of the Ministrie of Evergy and the Environment.

Contract between ISOR and ICEIDA

### Short Course on Surface Exploration for Geothermal Resources

November 13 - 22, 2006. The purpose with the short course was to give "a state of the art" overview of the possibilities and status of surface geothermal exploration in East Africa.

### Workshop for Decision Makers on Geothermal Projects and their Management

The aim of the Workshop was to make high-level decis makers from the respective energy ministries, national tric power companies, geological surveys, and finance ministries, better informed about the main phases of peothermal development and what kind of manpowe equipment, and financing is needed for each phase

## Development collaboration

Contract between ISOR and ICEIDA

Contract between ISUK and ILELIJA.
Geothermal exporations of two geothermal areas,
Kibrio and Katwo.
Field studies consisted of geological mapping with
emphasis on the location of (open) fractures and faults. TEM resistivity and gravitiy surveys were also carried ou as well as geochemical sampling of the geothermal water

## The Icelandic International **Development Agency**

Training and lecturing

ÍSOR has participated in development collaboration projects financed by the Icelandic International Development Agency (ICEIDA) involving training and lecturing as well as geothermal exploration. The geothermal training involves technical assistance and



- Short courses and workshops (UNU-GTP)
- Countries and numbers of graduates com-pleting 6 month courses at the UNU-GTP in Iceland 1979-2007

