Training - Geothermal projects for Geosciences & Reservoir Professionals

GEOTPJT-EN-P

Face-to-face only

10 days

This course provides a clear view of geothermal projects from subsurface problematics to surface constraints, in order to accurately assess geothermal reservoirs and efficiently manage them along the whole geothermal project life

Level

Skilled

Public

Geosciences, Reservoir, Petroleum and Project Engineering teams (technicians and managers) involved in Geothermal projects.

Objectives

Attendees will be able to implement the following skills:

- Understand how geothermal energy works, from subsurface to surface
- Explain about exploration and evaluation techniques
- Grasp geothermal reservoir modelling
- Learn about technical and safety specificities in geothermal well drilling and operating
- Understand grid integration and operation challenges
- Evaluate economics of a geothermal project

Pedagogical & technical resources

- WAYS AND MEANS
- Numerous illustrations and videos
- Applied workshops
- Site visits

Assessment of achievements

- Trainees are assessed throughout the training through practical application phases and interactions with the trainer
- A final on-the-spot evaluation may also be carried out at the end of the course and/or at the end of each module using tests designed to verify the learners' understanding and assimilation of the knowledge linked to the training objectives

Prerequisites

No prerequisites are necessary to follow this course

Responsable

IFP Training instructors, with expertise in the field and trained in modern teaching methods adapted to the specific needs of learners from the professional world

Program

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INTRODUCTION TO GEOTHERMAL ENERGY, GEOLOGICAL AND GEOPHYSICAL EXPLORATION — 1.5 days

Geothermal gradient.
Rock Properties.
Theoretical considerations on heat transport and storage in rocks.
Basin Exploration.
Induced Seismic.

GEOTHERMAL RESERVOIRS — 1.5 days

Hydrogeology.
Geochemistry.
Link with Lithium mineral.
Reservoir Modelling.

WELL CONSIDERATIONS — 2 days

Geothermal well design.
Drilling and completion.
Risk Management.
Workshop on modelling and well performance.
Drilling site visit.

DEVELOPMENT, OPERATION & MAINTENANCE — 2 days

Surface Facility Design.
Grid Integration & Market-specific trends application.
Operation and Maintenance.

ECONOMICS — 2 days

Market and economics of renewable energies.
Regulation.
Business Case study: economic and financial evaluation.

SITE VISIT — 1 day

Visit of a Geothermal power plant.

To French entities : IFP Training is referenced to DataDock ; you may contact your OPCO about potential funding.
Please contact our disabled persons referent to check the accessibility of this training program : referent.handicap@ifptraining.com

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