Training - Lithium: mineral system, exploration methods and assessment

LIGG-EN-P | Face-to-face only | 15 days

Lithium is a well-known element which has become a key component in battery industry and renewable energies technologies today. Although Lithium from mine is involving classic mining industry process, geothermal Lithium is crystallizing an increased interest. This training will present the Lithium mineral and its specificities and focus on the work-in-progress G&G workflow and further valorization

Level

Knowledge

Public

Experienced Geologists, Geophysicists, Reservoir Engineers and technical staff involved in Lithium projects' evaluation and deployment.

Objectives

Attendees will be able to implement the following skills:

- Understand the Lithium geology
- Grasp key figures to evaluate Lithium resources
- Discuss the geopolitical stakes

Pedagogical & technical resources

Participants will be evaluated during the training through a quiz and practice on case studies

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

GEOLOGY & GEOPHYSICS FOR LITHIUM EXPLORATION — 5 days

Sedimentology. Basin analysis.
Focus on evaporite systems.
Lithium and mines.
Lithium and geothermy. Geochemistry. Associated minerals. Induced seismicity.

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RESSOURCES EVALUATION — 5 days

Assessment of resources (Geophysics, coring, mining).
Specificity of geothermal lithium for resources evaluation.
Reservoir modelling workshop / Case study.

GEOPOLITICAL ASPECTS — 2 days

Production / consumption / life cycle.

FIELD TRIP — 3 days

e.g. Outcrops, cores (Alsace).
e.g. Mines (Allier/Limousin).
e.g. Visit of geothermal power station (Paris region).

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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