

Consultant / Trainer

Jurgen Grotzsch



The Petrogenium (in collaboration with EPTS) Geothermal Exploration & Development participants will gain a comprehensive understanding of geothermal energy's role in the global energy transition and net-zero goals, learning how this sustainable resource can enhance energy security and heat supply decarbonization. The course provides insights into geological settings suitable for geothermal development, from volcanic to sedimentary basins, and introduces subsurface workflows such as Play- Based Geothermal Exploration (PBGE) and Geothermal Field Development Planning (GFDP).



Participants

This course has been designed for geoscientists, well engineers, reservoir engineers, production technologists and other energy professionals who are working on renewable energy developments as well as other stakeholders involved in geothermal projects. The course is recommended for staff from the energy and service industry as well as for employees in the public sector involved in or planning to work on geothermal projects, including decision makers. Particularly staff from smaller companies, new ventures or city councils are encouraged to attend this offering with the objective to avoid common pitfalls and the triggering of technical or non-technical risks..



Learning Objectives

This course will address questions about why a major move in the energy industry towards geothermal developments is required to achieve sustainability goals and net-zero emissions. The benefits, opportunities, but also challenges and risks of geothermal exploration and development projects will be presented and discussed. In addition, the need for new structured workflows for geothermal exploration and development projects will be highlighted and handrails for such workflows will be provided based on know-how as developed in the hydrocarbon industry. Aim is to support expediting the journey towards sustainable and decentralized new energy solutions and at the same time prep

Learning Objectives

The training course has the following goals:

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- Provide an introduction to geothermal heat as a renewable energy resource
- Present a global overview of current geothermal energy production capacity
- Illustrate the additional potential of geothermal exploration
- Highlight which countries are currently leading in geothermal developments and why
- Present the main sources and reservoirs of geothermal energy
- Discuss geothermal potential for power vs heat generation
- Highlight the differences between fracture and matrix geothermal developments
- Showcase the importance of matrix porosity and permeability in sedimentary rocks
- Understand the workflow of exploration - Play Based Geothermal Exploration (PBGE)
- Summarise subsurface and surface technologies and development options
- Present and discuss a number of leading edge geothermal projects
- Introduce the basics of geothermal economics
- Compare geothermal projects with other energy developments
- Highlight potential of additional benefits of geothermal developments
- Provide an outlook for geothermal energy in the decades ahead
- Discuss the main challenges and technical risks involved in harnessing geothermal energy
- Address non-technical risks in geothermal project developments

Programme

5 DAY Course

1. Fundamentals of geothermal energy
2. Play-based Exploration for geothermal energy (PBGE)
3. Development of geothermal energy projects (GFDP)
4. Benefits of geothermal energy projects
5. Common pitfalls and risks in geothermal projects
6. Onsite Workshop for your organization (optional, on-site only)
 - Facilitated workshop following the Opportunity Realisation Framework and Standards
 - Interactive workshop tailored to organizational and project needs
 - Project grounding for all involved stakeholders of the project
 - Common development of project options and way forward

Why select Petrogenium.?

The above support will be provided by principal consultants with 30+ years world-class experience in the technology and hands-on know-how from operation of refinery units.

Contact Petrogenium.:

Email: training@petrogenium.com
Website: <https://www.petrogenium.com/training/>

Because Experience Matters