

Engineering the Energy Transition

The energy transition is on the way.

TRACS and EPCConsult partner in this Engineering the Energy Transition modular training course, leveraging extensive experience and innovative solutions to provide insights and knowledge to participants.

The combined expertise will provide a solid understanding of challenges and opportunities in the energy transition.

Premium Content: Explore nine half-day modules, selecting at least five for a tailored experience focused on energy transition and renewables.

Delivery Options: Choose between an intensive one-week face-to-face session or a flexible virtual learning experience over several months.

Why Enrol? Gain insights from industry experts and refresh your knowledge without extensive time away from work while addressing the challenges of renewable energy projects, including infrastructure, legislation, and market developments.

Energy professionals can focus on project management (Modules 1, 9) or engineering aspects (Modules 2-4). Module 5 covers geothermal energy. Module 6 discusses renewables alongside fossil fuels. Module 7 focuses on hydrogen energy storage, while Module 8 addresses abandonment strategies.

Course Content

There are few active CCS projects globally, making this course essential to combine diverse expertise.

Module 1: Engineering the future of energy - Arndt Peterhaensel, Martin Larsen The energy transition: challenges, components, drivers, and solutions.

Module 2: Handling the load - Roy Evans Electrification for 'net zero': infrastructure needs, bottlenecks, and storage.

Module 3: Where the wind blows - Roy Evans Technologies in wind: onshore versus offshore; design and cost.

Module 4: We follow the sun - Roy Evans, Martin Larsen Solar technologies: photovoltaic versus thermal; new developments.

Module 5: Well grounded - Jerry Hadwin Geothermal energy: shallow versus deep; heat versus power.

Module 6: From grey to green - Mark Cook, Ed Stephens, Martin Larsen CCUS: feasibility, planning, and risks; shrinking carbon footprints.

Module 7: The lighter side - Roy Evans, Hydrogen storage: blue versus green; capacity and costs.

Module 8: And in the end - Roy Evans, Steve Jewell Sustainable engineering: decommissioning and recycling strategies.

Duration

Full day 2 to 5 days

Virtual instructor led training (vILT). Core content can also be distilled into a one- or two-day workshop.

Designed for:

The modules are designed for people who want to update or refresh on specific topics without having to spend a week out of the office. The classes are led by experts in their respective fields and provide an opportunity for learning, inspiration, conversation and networking.

Learning Level

Skills ○○○○

Knowledge ●●○○

Awareness ●●●●



Course Tutors



Arndt Peterhänsel PhD
Geoscientist, Global Head of
Training at TRACS



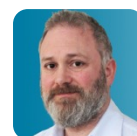
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Renewable Energy and Risk
Specialist, CEO at EPCConsult
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Mark Cook BSc, MBA
CCS Screening Practitioner,
Reservoir Engineer



Jerry Hadwin BSc, MEng
Geothermal & CCS, Reservoir
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Dr Edmund Stephens
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Modelling



Roy Evans MSc
Renewables, Operation &
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