

The Energy Transition in a Day

Opportunities, Risks, What is new, What persists

TRACS Training Master classes

One day Master classes 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.

Designed for:

Anyone wanting a high level overview of the overall Energy Transition and a broad understanding of how it all fits together.

Duration:

1 Day

What are the different parts of the Energy Transition and how do they impact current and future business?

So you have a clear view of your own job or department in the oil and gas industry but what is happening in the Energy Transition that we have all heard so much about? Offshore wind power, utility companies, hydrogen production, car manufacturers, battery manufacturers, industrial clusters.

This event paints the broad picture of the Energy Transition from renewable energy supply, managing intermittency, hydrogen supply and carbon capture and storage, new transport and heating solutions, ensuring that sustainability objectives can met through the supply chain.

There are trade-offs, affordable energy is the main driver for economic growth. There is pressure from society to reduce greenhouse gas emissions to minimise climate change. Some aspects of the Energy Transition involve developing technologies which are expensive at present.

The emphasis is on how aspects in the supply and demand for new energy fit together. What options are there? Will all countries follow the same path.

We will start the day with science and policy and end the day taking a look at what opportunities might match your skills.



Early Development
E&P Overview
Reservoir
Wells

Business & Risk
Open Air
Coaching
Master Class



The Energy Transition in a Day continued

Course Content:

Context

- How important is the Energy Transition in the world; How much of the world's energy comes from renewable energy now, how rapidly will this change in the future and what is the mix of energy demand likely to be?

Science , Policy and Business

- Why do we need an Energy Transition; What are the scientific and policy drivers; How are businesses adapting?

Energy Supply

- What are the new sources of energy supply; Wind and Solar Power coupled with Energy Storage offset by demand management.
- Hydrogen production (which may require carbon capture and storage)?

Energy Demand - What is causing the changes in the energy mix

- Electricity demand will increase through the use of Electric Vehicles. Can electricity provide sufficient heat quickly during the winter?
- In the coming years hydrogen is likely to provide heating for the industrial, commercial and the domestic market and power heavy goods vehicles.
- What are the options to power rail, shipping and aviation?

Sustainability and Ethical Issues - Is the Energy Transition sustainable?

- What are the sources of supply for materials used for new, including batteries, and solar panels. Can the materials used be recycled?

Opportunities

- Are there new jobs for me and my organisation in the Energy Transition ?

Course Duration:

1 day

Courses available from this series:

E&P Business in a Day
Uncertainty and Risk in Development
How to Make a Good Reservoir Model
Common Fallacies in Casing and Tubing Design
Reservoir Engineering Fundamentals
Field Development Planning
Geomechanics Integration
New Trends in Data Analysis
The Energy Transition in a Day
Carbon Capture and Storage (CCS)

Course Tutor



Arndt Peterhänsel PhD

Main series Tutoring: E&P Overview, Reservoir, Open Air
Industry Experience: 20 years, Geoscience
Career background: University of Cambridge, Universität Potsdam, Saudi Aramco, Lukoil and TRACS
Personal: Technical author, Global Head of Training (TRACS), Expert to The European Commission on Horizon Europe 2020 research programme