

Climate Risk and Renewable Energy Resilience Planning

COURSE OVERVIEW

This course reviews strategies for building resilience into energy infrastructure, integrating climate risk assessments into planning processes, and aligning projects with global sustainability and net zero targets. It provides participants with the knowledge and tools to understand, assess, and manage the impacts of climate change on renewable energy systems. Through practical case studies, scenario planning, and interactive exercises, participants will learn how to design adaptive, future-ready energy systems capable of withstanding climate driven uncertainties.

WHO SHOULD ATTEND?

The course is designed for energy policymakers, utility managers, renewable energy developers, infrastructure planners, climate risk analysts, sustainability officers, regulators, and professionals working in sectors where energy security and climate resilience intersect. It is also valuable for decision makers in government, private organizations, and NGOs seeking to strengthen renewable energy investments against climate risks.

COURSE OUTCOMES

Delegates will gain the skills and knowledge to:

- Identify key climate risks that affect renewable energy infrastructure and supply chains.
- Apply climate risk assessment tools to energy planning and investment decisions.
- Develop resilience strategies for solar, wind, hydro, and emerging renewable technologies.
- Integrate adaptation and mitigation measures into long-term energy planning.
- Strengthen decision-making capacity for sustainable and climate-resilient energy systems.

KEY COURSE HIGHLIGHTS

At the end of the course, you will understand:

- Climate change impacts on renewable energy systems.
- Frameworks for climate risk assessment and scenario planning.
- Tools and strategies for resilient renewable energy infrastructure.
- Case studies of climate-resilient energy projects worldwide.
- Policy, regulatory, and investment considerations for energy resilience.
- Practical tabletop and simulation exercises for decision-making under uncertainty

All our courses are dual-certificate courses. At the end of the training, the delegates will receive two certificates.

1. A GTC end-of-course certificate
2. Continuing Professional Development (CPD) Certificate of completion with earned credits awarded