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## Professional Certificate Course E10-E

**Course Name**      **Powering up Airports in Developing Markets: Challenges and Opportunities in Energy Transition - Solar and Geothermal Energy at African Airports**

**Delivery**            **Virtual Class / Online**      4 days (3 hours per day)

### **About the Course**

The course is designed to offer valuable insights into energy transition challenges and opportunities for airport operators in African countries. It aims to provide a comprehensive understanding of the technical requirements, key stakeholders involved, and the step-by-step process of implementing sustainable energy solutions at airports. The course welcomes professionals from diverse backgrounds, including Engineering, Airport Planning, Sustainability, Environmental Management, and Business. This inclusive approach ensures that individuals with different competences and roles can all benefit from the valuable knowledge and expertise shared in the program. Moreover, the course accommodates participants at various managerial and technical levels, enabling both higher-level decision-makers and project-oriented professionals to make informed decisions (how to choose and implement the most suitable renewable energy infrastructure for their airport).

### **Learning Objectives**

Upon completion of this course, participants will be able to:

- Explain the environmental and economic benefits of energy transition.
- Evaluate their energy consumption and context to understand the most suitable renewable energy source for them.
- Discuss the advantages and disadvantages of implementing geothermal power plants and PV solar panels on-site at airports.
- Apply knowledge from case studies and best practices to real-world scenarios.
- Develop a strategic plan for transitioning to renewable energy sources.
- Build an indicative business model of renewable energy projects.
- Identify and engage with relevant stakeholders for successful partnerships.

### **Target Audience**

- Airport Planners
- Airport Environmental & Sustainability Managers
- Airport Energy/Utility Department Personnel
- Engineering & Maintenance Department Personnel

*Course Structure – Virtual Class*

Day 1	Day 2	Day 3	Day 4	Day 5
Introduction to Energy Transition Assessing your energy usage and context	Technical training on Solar and Geothermal Energy and its spatial implementation	Strategizing for implementation of renewable energy on your airport	Airports prepare presentations	Airport Presentations
Outcome				
Identifying the most suitable renewable source of energy for your airport	Understanding of on-airport infrastructure and operations	Strategic Action plan for implementing the identified renewable source of energy		Mutual Learning

For more information or clarification, please contact ACI Africa at [aci-africa@aci-africa.aero](mailto:aci-africa@aci-africa.aero) and [www.aci-africa.aero](http://www.aci-africa.aero)