CLEAN ENERGY AND WATER INSTITUTE

entura

SOLAR FARM DEVELOPMENT

The identification, assessment and mitigation of technical risks that may adversely impact the financial returns on a project are critical for any energy project development.

Our extensive renewable energy development experience has led to the accumulation of expert knowledge that we now offer to our clients.

This course offers full access to Entura's detailed practical knowledge of solar farm development. The course material is derived from Entura's experience that began with some of the first remote area power systems powered by solar in Australia and continues with our current research into solar resource assessment and work with major investors and developers throughout Asia-Pacific.

Entura brings a pragmatic approach to discussions of solar farm development, with experience in identification and assessment of solar farm opportunities for both greenfield and existing sites.

After completing the course, participants will have sufficient technical knowledge to make successful decisions about developing or investing in a solar farm project.

COURSE CONTENT

PROJECT DEVELOPMENT

- Prospecting:
  - site identification and siting
  - solar resource monitoring
  - solar resource assessment
  - Geographic information systems
- Development:
  - project design and layout
  - permit approvals
  - community consultation
  - grid connection
- Financing:
  - project energy estimate
  - prepare a business case
  - P50, P75, P95 scenarios
  - identify, assess and mitigate risk
  - Final investment decision
  - solar technology assessment • supply contracts
  - power purchase agreements
  - connection agreements
  - generation registration licences
  - construction and commissioning
  - operations and maintenance

TAILORED TECHNICAL MODULES TO SPECIFIC REQUIREMENTS

- Solar technology options
- Detailed project design
- Practical use of common software tools
- Environmental and planning studies
- Toolbox for monitoring performance of operational projects

PARTICIPANT PROFILE

- Managers and decision makers considering investments in solar farms
- Project managers

LEARNING OBJECTIVES

- To provide participants with a technical understanding of solar farms and the solar farm development process
- To develop an appreciation of the technical and commercial risks associated with solar farm development, and the potential impact on financial returns

LEARNING METHODS

- Lectures
- Case studies
- Discussions
- Potential site visit to a solar installation

COURSE PROVIDERS

Entura's lecturers include:

- Accredited training professionals
- Technical specialists and professionals with extensive experience and qualifications in the solar industry

CUSTOMISATION

This course can be customised for large developments of 10s of megawatts, or smaller developments, such as industrial rooftop installations or remote power generation. Specific technical modules can be incorporated.

COURSE DURATION
3-4 DAYS

LOCATION:
Melbourne, Victoria
(includes site visits)
Client site as negotiated

Program Coordinator – Leesa deGroot
+61 417 651 939 – institute@entura.com.au
entura.com.au/training