



Remote area power supply

Course duration

3 days

Location

- Tasmania, Australia (includes site visits)
- Client site as negotiated
- Web-based delivery possible

Each RAPS (remote area power supply) project is unique in the energy resources available, load profile, goals of the proponent, specifications of the power system and the logistical challenges presented by the remote location. Entura aims to provide a template to bring all these factors together and allow for a pragmatic approach to any RAPS project.

This course provides access to the multi-disciplinary and unique RAPS experience within Entura. The course material is based on Entura's proven capability with power systems and renewable energy developments, the extensive experience from the development and operation of King Island Power Station, as well as other RAPS projects in Australia, New Zealand and the Pacific.

After completing this course, participants will have the capability to prepare a business case for a RAPS project that includes consideration of the project drivers, status of the existing power supply, evaluation of the proposed power supply option, alternative options, risk evaluation, project delivery model and procurement strategy.

It would be beneficial to complete the wind and/or solar training courses offered by Entura prior to undertaking this course.

Course content

Business case development

- Project drivers/goals of project
- Risk management
- Funding and delivery models
- Procurement strategies
- Planning, environmental and community considerations
- Feasibility study:
 - technology assessment
 - resource assessment
 - power system integration
 - energy modelling
 - uncertainty.
- Design and specification
- Project schedule

Post-business case

- Detailed design
- Procurement management
- Contract management
- Construction and commissioning
- Operations and maintenance

Tailored technical modules to specific requirements

- Energy storage and enabling technologies
- Power system studies
- Wind, solar or hydro power technology specific
- Data acquisition and resource monitoring

Participant profile

- Managers
- Owners/developers
- RAPS operators

Learning objectives

- To provide participants with an understanding of the unique risks associated with RAPS projects and how to identify, assess and manage them.
- To learn how to prepare a business case for a RAPS project and how to evaluate different technologies for power supply.

Learning methods

- Lectures
- Case studies
- Discussions
- Site visit

Course providers

Entura's lecturers include:

- accredited training professionals
- technical specialists and professionals with extensive experience and qualifications across a broad range of disciplines.

Customisation

This course can be customised for specific technologies (wind, solar, hydro) or for specific development stages or system definition.



Course Director

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