



Application of the NER for connection of Renewable Energy



CONTINUING PROFESSIONAL DEVELOPMENT COURSE:

20 JUNE 2023 | FACE TO FACE DELIVERY

COURSE OBJECTIVES

A two-day professional development course in power engineering presented by the Australian Power Quality and Reliability Centre from the University of Wollongong.

The rapidly increasing volume of large renewable energy generators has introduced a number of challenges related to the control and stability of the electric power system. These challenges have increased the complexity of the connection process as set out in the NER. This course will cover a number of topics related to the application of the NER and system strength impact assessments, including modelling techniques required for the connection of generators. Preliminary and full impact assessments will be investigated with real-world indicative examples and simulation outcomes. The entire process will be reviewed including modelling techniques, data requirements and analysis of results with respect to the ability of a generator to meet their technical performance requirements.



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COURSE BENEFITS

By attending the course, you will gain knowledge and skills to assist you to:

- Gain a systematic understanding of the NER connection process with relation to renewable energy generation
- Gain a systematic understanding of the impact of different renewable and distributed generation resources on electricity network operation and stability
- Understand AEMO's system strength impact assessment guidelines and their relation to power system stability with high renewable energy penetration
- Assess power system modelling studies and identify conditions under which mitigation may be necessary
- Familiarise yourself with the standards for particular types of disturbances and mitigation strategies if standard limits are exceeded.
- Gain knowledge of guidelines and standards for integration of renewable energy resources into electricity grids
- Gain a practical understanding of various power quality problems associated with renewable and distributed generation integration

WHO SHOULD ATTEND?

Managers, utility specialists and technical staff who wish to advise customers on renewable energy integration, or who provide services to large clients, or those who wish to understand aspects of network design, construction and maintenance techniques for maximising renewable energy penetration.

Graduates, end-users or personnel working in all areas of power system design who want to understand how the system interacts with distributed generation, will also benefit from attending this course.

TRAINING INVESTMENT

The course investment provides for an inclusive industry related training package including course notes. Course fee per person is **AUD\$1770 including GST**.

Participants may count course hours towards their continuing professional development requirements.

REGISTRATION

To register please click on the link:

[Application of the NER for connection of Renewable Energy](#)

Note: There is no guarantee that economic participation levels for this course can be achieved. Registrants will be notified 2 weeks prior to course if the course cannot proceed due to insufficient numbers. The program may be changed at any time due to unforeseen circumstances. If the course cannot proceed for any reason, UOW will not accept liability of whatsoever kind for expenses incurred by any person or corporation with the sole exception of the course investment, which will be refunded in full.

ENQUIRES

Registration enquiries:

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