



GRID INTEGRATION & GPS STUDIES

OF RENEWABLES IN PSSE

Join us on **23–27 November 2026** for this hands-on short course in the **Grid Integration of Renewables** series. Delivered in partnership with **Siemens**, this course focuses on Generator Performance Standards (GPS) studies in the National Electricity Market (NEM) using PSSE. Learn to conduct compliance assessments, dynamic simulations, and automation workflows that will strengthen your expertise and career prospects in renewable energy grid connection.

About this Course

Delivered in collaboration with **Siemens**, this course provides engineers with the knowledge and skills to perform **load flow, short circuit, automation, and dynamic studies in PSSE** for GPS compliance.

Participants will be first provided with the required concepts and then will work through guided examples, building from a simple IEEE 14-bus system to advanced dynamic contingency analysis.

The program is structured to mirror the workflow of real grid connection studies, bridging theoretical foundations and industry practice.

Industry Insights

The course features contributions from **Siemens experienced engineers** and consultants, which will equip participants with practical perspectives on regulatory compliance and connection challenges.

You Will Learn

- Fundamentals of PSSE, its interface, modules, and workflows
- Building and validating a 14-bus and an SMIB case for GPS-related studies
- Performing short-circuit studies and contingency analyses in accordance with NER requirements on both SMIB and wide-area systems
- Adding new generators and assessing system strength and compliance
- Automating studies using Python for load flow studies, short circuit analysis, and contingencies in wide-area models
- Running dynamic studies, from SMIB model to wide-area studies
- Applying GPS-related dynamic faults and various contingency scenarios for GPS compliance
- Best practices in reporting, scripting, and engaging with AEMO, NSPs, and consultants

Details

Course Date:
23–27 November 2026

Delivery Options:

In-person: PSSE software, licence access, and related technical support are provided. A limited number of loan laptops are also available for a small additional fee.

Online: No software or licence access is provided. Participants must arrange their own software, licence access, and related technical support.

Cost exc. GST:
\$4,500 In-person / \$3,600 Online

Discounts

Early Bird Discount: Enjoy a 15% discount when you register by **October 10, 2026**. No discount code is required.

Online Course Fee: To access the fee for the online version of the course, use the code *PSSEonline20* at checkout.

Monash Alumni/Students: After the early bird deadline, Monash alumni and students can receive a 30% discount using the codes *MonashSA* (in-person) and *Online+SA* (online).

REGISTER HERE

FOR ENQUIRIES OR DISCOUNT, PLEASE CONTACT:

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