



# Dynamic Simulation of Non-Synchronous Generators Workshop

1pm, 19<sup>th</sup> October 2017 at the Melbourne Exhibition Centre



**DlgSILENT Pacific** would like invite to you to join us for a half-day technical Workshop covering three key topics, followed by a networking event get together.

**Workshop:** 12:45pm for a 1:00pm start  
Thursday 19<sup>th</sup> October 2017

## **Topic 1:** Quasi-dynamic Simulation for the Study of Non-Synchronous Generators

Koos Theron will present Topic 1 with a focus on quasi-dynamic simulations, including:

- The need for quasi-dynamic simulations
- Example of QDSL model
- Element load-flow parameter characteristics
- Creating events
- Demonstration

## **Topic 2:** Unbalanced RMS Dynamic Simulations for the Gird Integration of Non-Synchronous Generators

Hieu Nguyen will be delivering Topic 2 highlighting the effectiveness of unbalanced RMS analysis:

- Background of Power System Transient Analysis
- Balanced and Unbalanced RMS simulations
- Demonstration in PowerFactory
- Model testing
- Model Benchmark with Measurements

## **Topic 3:** EMT modelling and co-simulation of RMS and EMT dynamics in PowerFactory

Joseph Leung will present:

- PowerFactory's parallel RMS-EMT co-simulation capability
- Lightning strike EMT simulation
- CIGRE HVDC benchmarking system demonstration



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## Overview and networking function

Upon conclusion, Hieu Nguyen will present an overview of the Workshop with delivery of the key messages followed by Q&A.

After the Workshop, drinks and canapes will be served. This will be an opportunity for networking and to catch up with the DgSILENT staff to discuss other matters of interest:

- The Workshop topics,
- Current industry affairs, and
- Past experiences and lessons learnt.

We hope you can join us at the **Melbourne Exhibition Centre** for some intellectual and social stimulation.

## Format

Presentations held in classroom environment. PowerFactory knowledge is non-essential.

## Fee Complimentary

## Location

Melbourne Exhibition Centre  
2 Clarendon Street, South Wharf, Melbourne  
<http://mcec.com.au/your-visit/getting-there/>

**RSVP** by 5 October 2017 to:

[kate.bebejewaska@digsilent.com.au](mailto:kate.bebejewaska@digsilent.com.au)