

# Solar PV Integrations into National Grid: Challenges and Opportunities

## Keynote Session B I

**Date:** Friday, Dec 17, 2021

**Time:** 11:30 AM-12:25 PM

**Speaker:** Tapan Saha, Professor, School of Electrical Engineering and Information Technology, University of Queensland, Australia

### Abstract:

Extensive integration of solar PV generations into their distribution and transmission grids are progressing around the globe to meet their renewable energy targets and also to reduce carbon emissions. Solar PV generation is variable and hence they bring many challenges for network and overall grid management. At the University of Queensland, our research team has been involved in a number of solar PV integration projects, which include both small scale rooftop PV installations in distribution networks and large scale solar farms in transmission networks. This keynote speech will present some key outcomes and solutions from our research projects in PV integrations and grid managements.