

# Technical Talk

BEM Approved  
CPD/PDP Hours: 2  
Ref: IEM22/PG/217/T

## How Smart Inverter Works in the Solar Photovoltaic (PV) System?



**Time:**  
6.30pm – 8.30pm

**Venue:**  
IEM Secretariat @ E-Gate



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<b>IEM Senior (&gt;65yrs old) :</b>	<b>RM20</b>
<b>IEM Student &amp; Graduate:</b>	<b>RM20</b>
<b>IEM Member:</b>	<b>RM30</b>
<b>Non-IEM Member:</b>	<b>RM60</b>



**Speaker:**  
Mr. Ng Siew Chun



**Moderator:**  
Mr. Wong Jian Choon

**Organized by**  
Electronic Electrical Technical Division  
IEM Penang Branch

### Synopsis

Renewable energy, especially PV Solar, is gaining a lot of attention and traction in the region due to driving factors like ESG and Paris Agreement. More and more companies in the region are adopting solar PV technologies to reduce their carbon footprint and to be ESG compliant. Being one of the main components of the Solar PV Systems, smart inverter plays a very important role in ensuring the performance, reliability, and safety of the whole System.

In this session, we hope to share with the participants on the development trend of smart inverter and how they could support grid stability and safety of the whole system. Also, participants will be provided an insight on the hardware and software components of a smart inverter, as well as the functional principle of each component. Hopefully, by the end of the course, all participants will have an in-depth understanding on how solar PV inverter works and the technical parameters shown on the product datasheet

### About the Speaker

Mr. Ng Siew Chun graduated from University of Applied Sciences Heilbronn, Germany in 2011 with a bachelor degree of Mechatronics and Microsystem, majoring in Control and Automation Engineering. He started his professional career with the world-renowned PV solar inverter manufacturer SMA Solar Technology AG in HQ Germany as a software development engineer for central inverter. He was subsequently transferred to SMA's Chinese subsidiary in Suzhou, China to assist on the technology transfer to its newly acquired subsidiary.

He has had gather more than 10 years of working experience in various roles in the PV Solar Industry, including in the R&D centre, Product Management centre and is currently the Technical Sales Manager SEA of Goodwe Technologies Co., Ltd. He is also actively providing technical training to fellow professionals in the solar PV industry, both online and offline.