



WEBINAR TALK ON

# GRID CONNECTED SOLAR PV (GCPV) SYSTEM

*SPEAKER : Ir. TAN SENG KHEE*

**21 JANUARY 2021 (THURSDAY)  
3PM - 5PM**

Organised by : Environmental Engineering Technical Division, IEM

BEM Approved CPD / PDP : 2.0    Ref No : IEM20/HQ/298/T(w)

Registration Fee (effective from 1st August 2020)

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# SYNOPSIS

Malaysia is located a few degrees on the northern part of the Equator and receives good solar energy. Thus, we can generate “Green” Electrical Energy either for our self-consumption and/or to export or sell to TNB Grid according to SEDA & Suruhanjaya Tenaga rules and regulations

**SEDA, Malaysia (Sustainable Energy Development Authorities of Malaysia)** was formed in 2010 to promote the generation of renewable energy.

In the past, **FiT (Feed-in-Tariff) scheme** had been implemented in Germany with the concept of citizen-funding-citizen and managed by German Solar Authorities. In Malaysia, FiT started in year 2011 after the enactment of Renewable ACT. However, FiT successful bidders ended with just a few times of offering in the subsequent years.

In 2017 SEDA introduced **NEM (Nett Energy Metering) scheme**, where the surplus energy generated from installed PV System, after being consumed during the daytime as it is being produced can be exported to TNB Grid via Import-Export kWh meter. The quota for NEM scheme shall be allocated to successful applicants either by 31st Dec 2020 closing date or fully allocated before such date. Currently the ongoing SEDA incentive scheme is the **SELCO (Self-Consumption) scheme**, which is more suitable for commercial and industrial buildings.



# SPEAKER'S DETAILS

Ir. Tan Seng Khee, has more than 10 years of Solar PV experience and in addition of about 40 years of experience in Electrical Engineering from LV to 33kV Medium Voltage. He has worked with LLN / TNB – Kenyir Hydro Electric Project, Terengganu Rural Electrification Project, Bangsar Regional Control Centre (33kV & 11kV) Distribution Network, KLIA District Cooling Plant, Serudong Power Plant, Sabah, UK based Buro Happold Consultant at University Multimedia (MMU) Cyberjaya, ABB Medium Voltage Utility Sector for TNB, Sarawak Energy Berhad, Sabah Electricity Board, BRUNEI Electrical Department. Currently, Ir. Tan is active in Solar PV industry as Grid-Connected Solar PV System – approved PV Service Provider, as well as approved SEDA GCPV Trainer and with endorsement from Solar Academy, Germany. Currently, he conducts SEDA certified GCPV Design course for Engineers who are aspiring to become Solar PV Service Provider at SELANGOR HUMAN RESOURCE DEVELOPMENT CENTER (SHRDC), Shah Alam, Selangor D.E.

## TOPICS OF THIS TALK:

- 1. GCPV System – Types of Installations**
- 2. PV module / panel – Types, Characteristics, Select & Care**
- 3. Balance of System – Inverter, Structure, DC & AC components, Monitoring**
- 4. Sizing Ratio: Less / Equal / More than 1?**
- 5. Operation & Maintenance of PV System**
- 6. End of Life of PV System**