

# 2-DAYS SHORT COURSE: DESIGN AND SIMULATION OF GRID CONNECTED PHOTOVOLTAIC (GCPV) SYSTEM USING PVSYST

SYSTEM USING PVSYST 29 to 30 May 2023

UiTM-MTDC Technopreneur Centre,
UiTM Shah Alam, Selangor

5. Tilt angle and Azimuth

Set mounting type, tilt angle and Azimuth angle

Albedo - light reflection from the ground

Effect of tilt and Azimuth angle

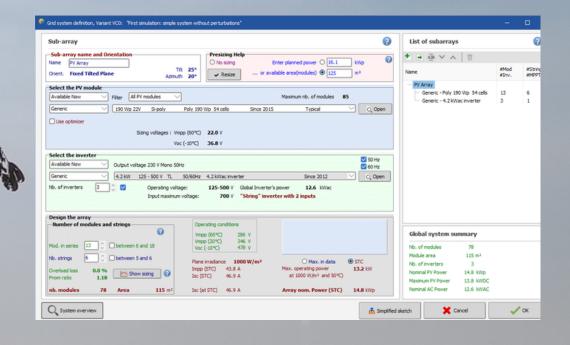
#### 6. Electrical system

PV modules: PVsvst components library and new modules

Inverters; PVsyst components library and new inverter

Cables; Declare DC and AC cable loss

- 7. Sizing PV-Inverter
- Sizing using a single MPPT inverter
- Sizing using multiple MPPT inverters
- Sizing using many inverters LSS plant
- Method of inverter selection based on PV array capacity
- Optimum sizing condition; voltage, current and power requirements
- Method of finding optimum PW array configuration; Np and Ns
- 8. Shading
- Far shading method of input data from Solarpath finder chart
- ·Near shading 3D drawing and Shading simulation
- ·Polar and rectangular plots
- 9. Other losses
- Thermal, Ageing, DC and AC cables, Unavailability
- ·Dirt, Incidence Angle Modifier, Light-Induced Degradation
- ·Mismatch, Auxiliary devices
- 10. Self-consumption
- ·Household daily
- ·Power factor adjustment and reason
- ·Grid power limitation and reason
- 11. Simulation and reporting
  - Explanation on the report format





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Each participant shall have his/her own PV syst software V7.0 or the latest

ach participant shall bring his/her own laptop during the course.

#### Trainer

# nmad Maliki Bin Omar

perience with undergraduate electrical

eaching, training, and consultancy ohotovoltaic (PV) power systems.

r Trainer and Examiner for the SEDA competency programs

Appointed as the Regional Trainer for Asian Photovoltaic Industry Association (APVIA)

## Limited to 15 participants only

Fee: RM1400 per participant

Book your seat now!

### Organise



UiTM Solar Park 1 Lot 147381, Jalan Gambang 26300 Kuantan Pahang Satellite Off: College of Engineering,

Universiti Teknologi MARA, 40450 Shah Alam Selangor





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