



## E-LEARNING

100% online. May include pre-recorded session, live streaming/webinar and discussion forum, where applicable.

### ONLINE WEBINAR LEARNING:

**Date:** 8 & 9 Feb 2023

**Time:** 9.00am to 6.00pm

### MCQ ASSESSMENT:

**Date:** 10 Feb 2023

**Time:** 10.00am to 11.00am

**PLATFORM:** BCAA Learning Management System (LMS)

**FEE** (incl of GST): S\$650.00

### CPD POINTS

BOA-SIA: -

PEB: -

SCEM: -

SGBC-GMAP: -

# Certification Course on Solar Architecture

## INTRODUCTION

Our Singapore Green Plan 2030 is a whole-of-nation sustainable development agenda, where one of the key targets is to achieve net zero emissions through solar energy deployment. Beyond the typical approach of covering roof tops with solar panels, it is timely for us to explore harnessing solar power through architectural-integrated systems; in the form of Building-Added Photovoltaics (BAPV) or Building-Integrated Photovoltaics (BIPV).

## LEARNING OUTCOMES

This course aims to keep professionals abreast on the latest BAPV and BIPV technologies as well as to equip industry practitioners with knowledge to design and adopt these systems for greater solar energy deployment.

At the end of the course, participants will be able to:

- Differentiate the types, functions and designs of BAPV/BIPV technologies;
- Determine optimal placement and suitability of BAPV/BIPV; and
- Evaluate projects for BAPV/BIPV deployment.

## TARGET AUDIENCE

Industry practitioners who are keen to embark on Green Mark journey or play the role of a Green Specialist; e.g. Developers, Building Owners, Architects, Engineers, Consultants, Project Managers, Facility Managers etc.

## LECTURERS

**DR. VERONIKA SHABUNKO** is Head of BIPV Centre of Excellence and Senior Research Fellow at the SERIS, National University of Singapore (NUS). She specialises in high-performance BIPV systems, techno-economic solutions and reliable integration of renewable energies into buildings. Dr. Veronika was also the Principal Investigator for a BIPV project funded by the Ministry of National Development – Sino-Singapore Tianjin Eco-City Administrative Committee and established two BIPV testbeds at the campus of NUS, in collaboration with major industry partners from Singapore (REC Solar, CDL), Japan, Switzerland and Dubai.

**PHILIP KWANG** is the Managing Director/ Façade Consultant of Façade Global Master Pte Ltd, and also the Director of SG Glass Innovation Master Pte Ltd. He is known to be an active advocate in BIPV facades, which was promoted through his regular engagement with the community and various government agencies. Philip is instrumental in delivery the first SCDF approved BAPV façade at PSA's Tuas MB Building – a GBIC funded national demonstrator super low energy building with BAPV facades.

## ASSESSMENT AND AWARD

An e-Certificate of Successful Completion (e-CSC) will be issued to participants who:

- Achieve at least 75% class attendance; and
- Pass MCQ test and group project assignment.

*For information on the Green Mark Professional Qualification Scheme administered by the Singapore Green Building Council, please visit <https://gmap.sgbc.online/public/about>*



## REGISTRATION

To register, please log into our Online StoreFront (OSF) at <https://eservices.bcaa.edu.sg/registration/#/> Login or scan QRcode and search for course code **80046**