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## Photovoltaics on buildings: Specifying and evaluating project proposals

### Course Summary

PV systems convert sunlight directly to electricity. It allows a building to save electricity costs from SP PowerGrid and stand out from the crowd, by enhancing its environmental and high-tech appeal.

Just a few years ago, PV projects required additional incentive to make them commercially viable. But costs have declined such that projects achieves payback periods below 10 years, yielding attractive internal rates of return (IRR) of 8–12%. This applies to systems that perform properly for 20–25 years, in line with PV module power warranties.

Many aspiring PV systems owners find themselves poorly prepared when requesting system proposals and evaluating offers, it might be difficult to distinguish a good system from a mediocre one.

Hence, we have invited an experienced PV industry professional to clear your doubts.

### Course Objective

At the end of the programme, participants will:

- Understand the possibilities and limitations of solar PV on buildings
- Understand the economics and payback of PV systems
- Be familiar with the incentive schemes for PV systems
- Understand how to specify and evaluate PV project proposals

**14 SCEM PDU Points awarded**

1 - 2 February 2018

9am - 5pm

Singapore Sustainability Academy

180 Raffles Place Level 6 Sky Park, #06-10

City Square Mall Singapore 208539

# Photovoltaics on buildings: Specifying and evaluating project proposals

## Program Outline

The 2 day workshop will comprise a mix of presentations, interactive discussion, hands-on comparison of module technologies.

### Day One

- Introduction and overview of PV + Building Integrated PV (BIPV)
- Effects of shading on crystalline silicon (c-Si) modules
- Comparison of c-Si and thin film modules
- Worked examples and discussion of results (group work)

### Day Two

- Economics and payback
- Specifying and evaluating projects
- Maintenance requirements and programmes
- Worked examples and discussions of results

## Rates

Normal	Group
SEAS Member: \$ 650.00	3 participants and above \$ 680.00
Non-Member: \$ 700.00	

Fees are inclusive of GST

SEAS may cancel or reschedule a course at its discretion and will use reasonable efforts to notify delegates at least 5 working days in advance. In these circumstances, delegates will be offered an alternative date, an alternative location or a full refund of course fees paid. SEAS is not responsible for airline or accommodation costs incurred by delegate in the event a course is cancelled or re-scheduled.

Substitutions (name changes) are accepted at any time prior to the event without penalty, subject to the replacement delegate satisfying any necessary course pre-requisites.

## Christophe Inglin



## Speaker's Profile

Mr Christophe Inglin has over 18 years of experience in the field of photovoltaics. He is currently the Managing Director of Energetix Pte Ltd. He is also on the council of SEAS as vice-chairman.

Christophe was Managing Director of Phoenix Solar Pte Ltd, one of Singapore's best respected solar systems integrators. Prior to that, he spent 10 years with Shell Solar Pte Ltd (formerly Siemens Showa Solar), a leading manufacturer of PV cells and modules. He is an invited trainer for the GreenMark Manager Programme held by the BCA Academy.

Christophe holds a BSc in Electronic and Electrical Engineering from the University of Surrey in England, and an MBA from INSEAD in France.

Call us at +65 6338 8578 to enquire

Email: [training@seas.org.sg](mailto:training@seas.org.sg)

## Registration Form

Yes! I would like to register for this programme  I am unable to attend but please put me on your mailing list

### Participant's Details

1 Name (Dr/Mr/Ms/Mrs) Designation  
Hp Email  
NRIC

### Participant's Details

2 Name (Dr/Mr/Ms/Mrs) Designation  
Hp Email  
NRIC

### Billing Information

Company Name Contact Name  
Company Address Email  
Tel