

COURSE OVERVIEW

A basic level course intended for adopters of Integrative Design Process. The aim is to provide a basic understanding of IDP and its link to Energy Efficiency and measurable sustainability. The lecturer will also share his valuable experience on common design mistakes and appropriate solutions to the efficiency problems.

COURSE OBJECTIVES

On successful completion, the candidate will be able to:

- Identify the opportunities for IDP both via retrofit of existing systems and for new projects
- Understand performance metrics and international guidelines for sustainable measures
- Organise IDP for his business from conceptual design whether brown field or green field
- Avoid common mistakes in technology & design solutions and create efficient & future proven facility
- Calculate the positve influence of IDP in terms of reducing recourse consumption, CAPEX, OPEX, budget & project schedule
- Increase triple bottom line benefits

PDUS AWARDED TO SCEMS AND PROFESSIONAL ENGINEERS

APPLICABLE FOR
PRODUCTIVITY AND
INNOVATION CREDIT (PIC)
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MORE INFORMATION.



3 MARCH 2016

9:00AM - 5:00PM

SEAS Training Centre 9 Penang Road, #08-02 Park Mall, Singapore 238459



INTEGRATIVE DESIGN PROCESS AND ENERGY EFFICIENCY

PROGRAMME OUTLINE

Session 1: Introduction

- Why IDP and what is the difference compared to conventional design process?
- IDP and its link to 12 Pillars of Sustainability

Session 2: Identifying Opportunnities for IDP

- Testing existing business for IDP need:
 -current local standards
- -expected changes in local and international standards
- -best in class practices

Session 3: Implementing IDP for new project

- Steps and challenges to considers
- Life examples from local and foreign projects

Session 4: Implementing IDP for existing system (retrofit)

- Steps and challenges to consider
- Life examples from local and foreign projects

DECICEDATION FORM TO VALLE

Session 5: Case study on Integrative Design Project

- Understanding the initial metrics and need for the IDP
- Identifying best technological solutions via sample IDP Charrette
- Estimating CAPEX & OPEX savings, payback and other relevant KPIs

Session 6: Ways to decrease a payback of CAPEX investments

- Available grants
- Banking financing & Revenue-sharing schemes

Session 7: Carbon credits & certifications

ABOUT THE TRAINER



Vinod Kesava (CEO & Managing Director), Climate Resources Exchange (2014) Pte Ltd has been involved in the carbon and renewable energy markets in Europe and Asia since 2001. Between 2003 and 2007, Vinod co-founded, designed and successfully implemented the world's first carbon exchange trading in CDP-derived emission reductions, through a unique action process. This provided a clear system of transparency and price-discovery for the carbon markets, for real, long-term and measureable carbon

reduction units

Vinod's work inthe field of integrative design in his capacity as Chief Operating Officer of The GreenAsia Group has made significant headway in the past 1 year. Projects he has executed have resulted in millions of dollars in savings through CAPEX and OPEX of projects ranging from data centres, pharmaceutical and mixed development facilities for clients. Consultancy fees and retrofit works have resulted in sales close to \$\$2.5 million dollars. He has also developed products for measurement of key performance metrics to determine the true measure of sustainability that brings additional measurable value to clients.

Vinod has a very keen sense of how to use a holistic approach to develop sustainable projects, and gets his ideas across to stakeholders with his very practical and down-to-earth perspective. He is well-versed in the GHG Protool to develop sector-wide approaches in Corporate Social Responsibility and Sustainability Behavior. His interest is in identifying opportunities to reduce emissions that produce cross-border sustainable development while preserving environmental integrity.

RATES

EARLY BIRD (before 5 February)	NORMAL FEE	GROUP FEE
S\$350 (SEAS Member) S\$450 (Non Member)	S\$450 (SEAS Member) S\$550 (Non Member)	S\$400 (4+ delegates from 1 orginization)

^{*} Fees inclusive of GST

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PARTICIPANT'S DETAILS Number of Delegates		Fees Payable	Fees Payable	
1	Name (Dr/Mr/Mrs/Ms)		Designation	
	HP No	Email	PEB	
2	Name (Dr/Mr/Mrs/Ms)		Designation	
	HP No	Email	PEB	
ORGANIZATION'S DETAILS				
Company Name				
Company Address				
Contact Name		Tel		
Email			Fax	

^{*} Payment to SEAS & Address: Please send a crossed cheque to:
Sustainable Energy Association of Singapore, 9 Penang Road, #08-02 Park Mall, Singapore 238459