

**Project Final Report for
Professional Services Advancement Support Scheme (“PASS”)**

1. Project Details

- 1.1 Project Reference No.** : PS182012
- 1.2 Project Title** : Advancing Capacity for Professional Engineering Services and Environmental Consultancy Services in Renewable Energy Applications
- 1.3 Grantee** : Green Council
- 1.4 Collaborating Organisation(s)** : Nil
- 1.5 Implementation Agent(s)** : Nil
- 1.6 Sponsoring Organisation(s)** : Nil
- 1.7 Consultant(s)** : Nil
- 1.8 Project Co-ordinator** : (Name) Ms Linda HO (Post title) Chief Executive Officer
- 1.9 Deputy Project Co-ordinator** : (Name) Mr Felix LAM (Post title) Head of Sustainability
- 1.10 Project Period (duration)** : from 01/01/2019 to 31/12/2019 (12 months)
- 1.11 Major Beneficiary Sector(s)** : Building and construction-related, waste management and environmental consultancy services sectors.
- 1.12 Approved PASS Grant (HK\$)** : 406,000

2. Project Implementation

2.1 Project Summary

(Please give a summary of the project including objectives, deliverables and target professional service sectors within 100 words.)

This project aims to:

1. Update Hong Kong professionals and environmental consultants the latest knowledge in local and overseas technological and market development trends, and legal and safety issues regarding renewable energy (RE) downstream applications; and
2. Enhance and strengthen the technical capacity, knowledge and skills of engineering professionals and environmental consultants in marketing, design, installation and/or management of RE power generation systems.

The deliverables include two seminars related to the latest trends of energy development, especially renewable energy, and ten training workshops related to RE power generation systems, including technology, procurement, law and regulations, installation and maintenance, safety working practices for the building and construction-related, waste management and environmental consultancy services sectors.

2.2 Project Deliverables

(Please compare the actual results achieved with the agreed targets for each item.)

Agreed Targets		Actual Results Achieved <i>(Please submit copies of all relevant supporting materials, e.g. proceedings, attendance records.)</i>	
<i>Date / Deliverables (with quantity)</i>	<i>Beneficiaries (estimated no. of local / non-local participants)</i>	<i>Date / Deliverables (with actual quantity)</i>	<i>Beneficiaries (actual no. of local / non-local participants)</i>
01/05/2019 to 30/11/2019 Two 1-day seminars in Hong Kong	200 participants (160 local engineering professionals and 40 local environmental consultants) (100 participants per seminar)	09/05/2019 1 st seminar 07/11/2019 2 nd seminar	66 participants (including 47 local engineering professionals and 19 local environmental consultants) 106 participants (71 local engineering professionals and 35 local environmental consultants) (For local professionals: 86% of the target met)
01/05/2019 to 31/12/2019 Ten (2 rounds of 5) 3-hour training workshops in Hong Kong	400 local engineering professionals (200 participants per round, 40 participants per training workshop)	1 st round of five training workshops: 23/05/2019, 25/05/2019, 30/05/2019, 06/06/2019 and 13/06/2019 2 nd round of five training	322 participants (including 281 local engineering professionals and 41 local environmental consultants) 188 participants (90 local engineering professionals and 98 local environmental consultants) (127.5% of the target met)

Agreed Targets		Actual Results Achieved <i>(Please submit copies of all relevant supporting materials, e.g. proceedings, attendance records.)</i>	
<i>Date / Deliverables (with quantity)</i>	<i>Beneficiaries (estimated no. of local / non-local participants)</i>	<i>Date / Deliverables (with actual quantity)</i>	<i>Beneficiaries (actual no. of local / non-local participants)</i>
		workshops: 21/11/2019, 26/11/2019, 28/11/2019, 05/12/2019 and 17/12/2019	

2.3 Project Promotion and Dissemination

(Please compare the actual means used / outcomes with the agreed activities for each item.)

Agreed Activities	Actual Means Used / Outcomes <i>(Please submit copies of all relevant supporting materials, e.g. posters, leaflets, invitation letters, publications, website printouts, dissemination e-mails, newsletters, feedback surveys and analysis.)</i>	Remarks
(a) For Project Promotion:		
To promote seminars and training workshops via webpage, emails, engineering professional associations, e.g. The Hong Kong Institution of Engineers (HKIE), The Institution of Engineering and Technology, etc.	Invitation emails were sent to engineering and environmental professional associations, e.g. HKIE, Hong Kong Association of Energy Engineers, Hong Kong Association of Energy Service Companies, Federation of Hong Kong Industries, Business Environment Council, Hong Kong Institute of Qualified Environmental Professionals, in March and September 2019.	
(b) For Dissemination of Project Deliverables:		
To upload photos, videos and training materials of seminars and workshops onto Green Council's website to widely disseminate the project.	Photos, videos and presentation slides of two seminars were uploaded onto the website. https://www.greencouncil.org/seminars Training materials of 2 rounds of five training workshops per round were uploaded onto the website. https://www.greencouncil.org/trainings	

3. Achievements and Grantee's Evaluation of the Project

3.1 Number of participants and eligible beneficiaries

Project Deliverables	Eligible Number of Beneficiaries (if known)
(i) Two 1-day seminars in Hong Kong	172 engineering professionals and environmental consultants
(ii) Ten 3-hour training workshops in Hong Kong	510 engineering professionals and environmental consultants

3.2 Feedback from participants / users / professional services sectors

Based on the feedback survey collected after the events, we summarized below.

For the two seminars, 21% of the respondents rated “excellent”, 69% rated “satisfactory” and none of the respondent rated “not satisfied”. 76% of the respondents rated the seminar information “very useful”.

Some of the written comments were “well-organized seminars”, “provided the latest technology”, “good information sharing and networking to participants”, “high quality speakers” and “the information delivered was insightful”.

For the 10 training workshops, 46% of the respondents rated the workshops “excellent” and 87% rated the workshop information useful to them.

3.3 Dissemination of project deliverables to relevant professionals

After seminars and training workshops, Green Council informed all participants and the supporting organizations that all training materials (including presentation slide and video) were uploaded onto Green Council’s website to share with more professionals and even the public without charge. This enables wide dissemination of project deliverables to more professionals from different service sectors.

3.4 PASS and other objectives reached *(May choose more than one)*

- Increasing the exchanges and co-operation of Hong Kong’s professional services with their counterparts in external markets
- Promoting relevant publicity activities
- Enhancing the standards and external competitiveness of Hong Kong’s professional services
- Others

Please elaborate on how the objective(s) was/were met:

Objective 1:

Update the latest knowledge in local and overseas technological and market development trends, and legal and safety issues regarding renewable energy (RE) downstream applications; and

Green Council organised 2 seminars and 19 speakers representing different sectors were invited to update the latest knowledge including:

- (i) energy suppliers (CLP Power Hong Kong Limited (CLP), Hong Kong Electric (HKE), Towngas,) about energy supply and market development;
- (ii) regulatory bodies (Electrical and Mechanical Services Department (EMSD)) and Government (Environment and Ecology Bureau and Hong Kong Observatory) about government support on RE;
- (iii) RE suppliers and service providers (Keppel Seghers Belgium, Relisuco Renewables, Motorwave Group, W3 Corporate, iTouch Energy UK) about the local and overseas technological development in solar energy, wind energy, waste-to-energy;
- (iv) institutional advices from Asia Pacific Urban Energy Association, London University and European

- Chamber, about international market development of RE; and
- (v) consumers (Kai Shing Management and The ISF Academy) about RE downstream application in residential and commercial (education?) sectors.

Speakers from Singapore, Thailand and UK have been invited to share their overseas experience.

Objective 2:

Enhance and strengthen the technical capacity, knowledge and skills of professionals in marketing, design, installation and/or management of RE power generation systems.

Green Council has organized 10 training workshops with instructors from power companies (CLP and HKE), university lecturer (Hong Kong Baptist University), safety consultant to update the latest knowledge and skills in marketing, design, procurement, installation and/or management of RE power generation systems. In addition, the government representatives from EMSD and Building Department also provided training on the legal requirements in engineering and building aspects.

After the 2 seminars and 10 training workshops, we also received a lot of satisfactory feedback from the participants mentioned above.

Therefore, we can conclude that the above objectives have been fulfilled.

3.5 Overall achievements of the project

This project has completed successfully and with more than 680 participants, mainly in engineering and environmental fields. This great number of participants and satisfactory feedback demonstrate the deliverables of this project has helped elevate those professionals who are working or interested in the recent rapid RE market development after feed-in-tariffs (FiT) scheme. Since the launch of FiT from the 4th quarter of 2018, there have been over 10 000 applications and 1800 successful connections installations. The project has successfully helped build the capacity of Hong Kong's engineering and environmental professionals and update their knowledge and skills in supporting the prosperous development of RE market.

The Project Final Report is prepared by the Grantee.