

**Construction Industry Council**

**Committee on Environment**

---

Meeting No. 003/16 of the Committee on Environment for 2016 was held on 1 September 2016 (Thursday) at 2:30 pm at CIC Headquarters, 15/F, Allied Kajima Building, 138 Gloucester Road, Wanchai, Hong Kong.

Present:	Kevin POOLE	(KP)	Chairman
	Ivan Chin-shing FU	(FI)	
	Robert LAM	(PHL)	
	Kenneth Kon-fei MO	(KM)	
	Shu-jie PAN	(PSJ)	
	Sai-yen YU	(SYYu)	
	Ringo Shek-man YU	(RiYu)	Chairperson of Task Force on Strategy for Management and Reduction of Construction and Demolition Waste in Hong Kong (TF-MRW)
	Vincent MAK	(VM )	Development Bureau (DevB)
	Dorothy MA	(DMa)	Environmental Bureau (EnB)
	Harry LAI	(HLA)	Electrical and Mechanical Services Department (EMSD)
	Wai-kwong WONG	(WWK)	Architectural Services Department (ArchSD)
	Sunny CHAI	(SyCi)	Hong Kong R&D Centre for Logistics and Supply Chain Management Enabling Technologies (LSCM)
	Sam-choi CHAN	(SC)	Construction Site Workers General Union (CSWGU)
	Benny CHOW	(BCw)	Hong Kong Green Building Council (HKGBC)
	Ping-wai CHOW	(PCH)	Hong Kong Construction Industry Employees General Union (HKCIEGU)
	Shun-cheng LEE	(LeSC)	The Hong Kong Polytechnic University (HKPU)

	Cheuk-pui LO	(CPL)	Hong Kong General Building Contractors Association (HKGBCA)
	Ka-lung CHAN	(KLCn)	Hong Kong Federation of Electrical and Mechanical Contractors (HKFEMC)
In Attendance:	Edwina LIM	(EaLm)	Hong Kong Housing Authority (HKHA)
	Clarice YU	(YPM)	Buildings Department (BD)
	Christopher TO	(CT)	Executive Director
	Angela YUEN	(AaY)	Senior Manager – Council Services
	Sally LEUNG	(SYLg)	Manager – Council Services
	Penny LAU	(PeL)	Manager – Management Support
	James WONG	(JsW)	Assistant Manager – Research & Development
Presenter:	C S POON	(PCS)	PolyU Technology and Consultancy Co. Limited (PolyU)
	Min-jung MAING	(MMJ)	The University of Hong Kong (HKU)
	T T CHOW	(CTT)	City University of Hong Kong (CityU)
	C K LEE	(LCK)	City University of Hong Kong (CityU)
Apologies:	Reuben CHU	(RCU)	
	Christopher LEUNG	(KYL)	
	Ada FUNG	(AF)	for Permanent Secretary for Transport and Housing (Housing)
	Siu-wai HUI	(SWH)	Director of Buildings
	Stephen LAI	(SLI)	
	Christopher LEUNG	(KYL)	
	Thomas Shiu-tong NG	(TN)	The University of Hong Kong (HKU)

**PROGRESS REPORT**

**Action**

New Co-opted Members were introduced at the beginning of the meeting.

*(See items 3.4 & 3.5 which were reported before items 3.1 to 3.3)*

**3.1 Confirmation of the Progress Report of the Com-ENV Meeting No. 002/16 held on 16 June 2016**

Members took note of and confirmed the Progress Report CIC/ENV/R/002/16 of the last Com-ENV meeting held on Thursday, 16 June 2016.

**3.2 Matters Arising from the Previous Meeting**

SYLg updated Members on the following 3 matters:

Agenda item 2.2 DevB informed CIC on 25 August 2016 that Mrs. Dorothy MA (DMa) from the Environment Bureau (EnB) would attend the Com-ENV meetings as a Co-opted Member. The appointment letter as Co-opted Member of Com-ENV was passed to DMa on 1 September 2016.

The Environmental Protection Development (EPD) shall send representatives to attend Com-ENV meetings when appropriate.

The Construction Site Workers General Union (CSWGU) had appointed Mr. CHAN Sam-choi (SC) to replace Mr. KWAN Kwok-wing (KnKW) as Co-opted Member of Com-ENV.

Agenda item 2.8 Regarding the list of possible studies or projects in response to the recommendations from the Mckinsey Interim Report, it was reported under Agenda item 3.10.

Agenda item 2.9 Regarding the projects update (relevant to CIC) from the Hong Kong Green Building Council (HKGBC), it was reported under Agenda item 3.11.

**3.3 Progress update on the Provision of Consultancy Services for the Survey on the Potential Utilisation of Prefabrication Yard in Hong Kong**

SYLg briefed Members on the paper CIC/ENV/P/013/16 regarding the “Progress update on the Provision of Consultancy Services for the Survey on the Potential Utilisation of Prefabrication Yard in Hong Kong”.

The questionnaire was amended to include questions related to BEAM Plus after the Com-ENV Meeting No. 002-16 held on 16 June 2016. The invitation letter and questionnaire were sent out to industry stakeholders in batches between late July and early August 2016. Collection of data and interviewing experts should commence in August and September 2016. Analysis of the data will then be carried out and the initial survey results will be promulgated by October 2016. It is targeted to present the initial survey results for discussion and endorsement, if appropriate, in the next committee meeting.

As of 25 August 2016, there were 197 questionnaires returned. Members took note of the progress update on the Provision of Consultancy Services for the Survey on the Potential Utilisation of Prefabrication Yard in Hong Kong and were delighted to hear about the good response.

**3.4 Progress update of the Task Force on Strategy for Management and Reduction of Construction & Demolition (C&D) Waste in Hong Kong and its Consultancy Services**

RiYu briefed Members on the paper CIC/ENV/P/014/16 regarding

the “Progress update of the Task Force on Strategy for Management and Reduction of Construction & Demolition (C&D) Waste in Hong Kong and its Consultancy Services”.

Meeting No. 001-16 of the Task Force on Strategy for Management and Reduction of Construction & Demolition (C&D) Waste in Hong Kong (TF-MRW) was held on 28 July 2016. PolyU Technology and Consultancy Co. Limited attended the meeting and updated Members of TF-MRW on the progress of the Consultancy Project. The proposed lists of focus group meetings and interviews were commented. A visit to the construction waste sorting site was arranged for Members of TF-MRW on 9 August 2016.

Members took note of the progress update of the Task Force on Strategy for Management and Reduction of C&D Waste in Hong Kong and its Consultancy Services.

### **3.5 Progress update by PolyU Technology and Consultancy Co. Limited**

PCS from PolyU Technology and Consultancy Co. Limited attended the meeting and presented to Members of Com-ENV on the progress update of the Consultancy Services on the Strategy for Management and Reduction of Construction and Demolition (C&D) Waste in Hong Kong.

Members were briefed on the progress of the following tasks:

- a) Conduct literature review on overseas policies and measures for management and reduction of construction waste
- b) Conduct literature review on the current statutory and administrative measures for management and reduction of construction waste in Hong Kong
- c) Propose strategy and measures for management and reduction of construction waste
- d) Conduct feasibility study of on-site snapshot survey for the non-inert construction waste composition in Hong Kong

Action

- e) Propose an appropriate methodology (upstream or downstream approach) for the non-inert construction waste composition study
- f) Prepare a service specification for the suggested methodology

PolyU also presented the preliminary findings of the on-site snapshot survey on the waste composition analysis carried out at the Shek Mun Research Site of the PolyU. Construction wastes were collected from three residential building sites of different construction stages and were analysed from 29 July to 10 August 2016.

Members were informed on the 10 semi-structured interviews (completed as on 26 August 2016) and the focus group meetings (scheduled on the 15 and 22 September 2016).

The final report, which shall include recommendations and resources needed for the management and reduction of C&D waste in Hong Kong, is targeted to be completed by early 2017.

Members took note of the progress update of the Consultancy Services on the Strategy for Management and Reduction of Construction and Demolition Waste in Hong Kong.

*(PCS left the meeting at 3:10pm)*

### **3.6 Amended Operation Framework of CIC Research Fund and Proposal of Research Agenda**

JsW briefed Members of Com-ENV on the paper CIC/ENV/P/015/16 regarding the “Amended Operation Framework of CIC Research Fund and Proposal of Research Agenda”.

The amended operation framework of CIC research fund was approved by the CIC at its council meeting on 17 June 2016. CIC Secretariat will, whenever possible, streamline and expedite the operation process to ensure timely dissemination or implementation of the project outcomes.

Action

The following research areas were proposed to enhance the environmental performance of the local construction industry for Members' discussion and endorsement:

- a) Construction and Demolition (C&D) Wastes
- b) Sustainable Materials and Design
- c) Energy Saving Measures for Existing Buildings
- d) Mitigation and Adaption of Climate Change
- e) Green Construction

After deliberations, it was suggested to include "Any other research areas and knowledge gaps" in the research agenda to cater for other innovative topics that do not fall into any of the aforementioned categories. CIC Secretariat was also reminded to strike a balance between the number of fundamental and application research projects.

CIC  
Secretariat

Members were also informed that there are a total of 12 previously funded projects related to Environment and Sustainability. The CIC Secretariat and the Task Force on Research will prepare a list of deliverables and timeline for each of the project for discussion in the next committee meeting.

CIC  
Secretariat

Members took note of the amended operation framework of CIC research fund and endorsed the proposed research agenda with the addition of the topic "Any other research areas and knowledge gaps".

### 3.7 **Nomination for Task Force on Research**

JsW briefed Members on the paper CIC/ENV/P/016/16 regarding the "Nomination for Task Force on Research".

Members were briefed on the Membership and Terms of Reference (TOR) for the Task Force on Research. Each Committee will appoint one representative to represent their respective Committee in the Task Force.

After deliberations, Members agreed to nominate Mr. PAN Shu-jie (PSJ) to represent Com-ENV to review the research projects in the Task Force on Research.

*(MMJ joined the meeting at 3:45pm)*

### 3.8 **A Study of Impact of Building Envelope on Urban Outdoor Thermal Environment**

MMJ from HKU attended the meeting and introduced the research project on “A Study of Impact of Building Envelope on Urban Outdoor Thermal Environment” to Members of Com-ENV.

Members were briefed on the objectives, methodology, analysis and findings, recommendations and future applications, and further studies (next steps) of the study.

Members took note of the study and looked forward in the practical recommendations derived from the research findings in the next steps.

*(MMJ left the meeting at 4:15pm)*

*(CTT & LCK joined the meeting at 4:15pm)*

### 3.9 **Retrofitting Existing Building (Energy Efficiency) – A Quantitative Approach**

CTT and LCK, from CityU attended the meeting and presented the findings on the research project “Retrofitting Existing Building (Energy Efficiency) – A Quantitative Approach” to Members of Com-ENV.

Members were briefed on the research objectives, membership of the steering committee, project deliverables, identified energy retrofitting technologies, progress of case studies, modes to disseminate the research outcomes, and difficulties encountered while conducting the



Action

project survey.

Members suggested CityU to submit an interim report indicating the research outcomes, recommendations, advantages and disadvantages, costs involved, etc. At the same time, Members suggested CityU to approach HKGBC for referrals if needed.

CityU

*(CTT and LCK left the meeting at 4:35pm)*  
*(RiYu left the meeting at 4:37pm)*

**3.10 Progress update of the Mckinsey Report follow up**

AaY briefed Members of Com-ENV on the paper CIC/ENV/P017/16 regarding “Progress update of the Mckinsey Report follow up”.

A meeting was held with HKGBC on 3 August 2016. The discussion summary was appended in Annex A of the paper. HKGBC had identified most of the projects mentioned in the summary table as their existing or newly launched projects.

CIC Secretariat will align and arrange a common matrix with HKGBC on those projects with synergies. CIC Secretariat will also discuss some of the recommendations listed in the Mckinsey Report with EnB in due course.

CIC  
Secretariat

Members took note of the progress update of the Mckinsey Report follow up.

**3.11 Update from HKGBC**

BCw briefed and updated Members of Com-ENV on the following HKGBC projects:

- a) HK G-PASS (HKGBC Green Product Accreditation and Standards)
- b) HK BESTOF (HKGBC Benchmarking and Energy Saving Tool – Office Buildings)

Members would like to obtain more information on the future roadmap of the operation schemes and how the assessment criteria would be updated or revamped as the technology is ever changing.

BCw

**Action**

BCw will address the concerns in the next committee meeting.

**3.12 Any Other Business**

NIL

**3.13 Tentative Date of Next Meeting**

25 November 2016 (Friday) at 2:30 pm at the CIC new Headquarters  
in Kwun Tong.

All  
to note

There being no further business, the meeting was adjourned at 5:10pm.

**CIC Secretariat  
September 2016**