

**Construction Industry Council**

**Committee on Environment**

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Meeting No. 001/17 of the Committee on Environment for 2017 was held on 7 March 2017 (Tuesday) at 2:30 pm at Construction Industry Council ZCB Multi-Purpose Hall, 8 Sheung Yuet Road, Kowloon Bay, Kowloon, Hong Kong.

Present:	Kevin POOLE	(KP)	Chairman
	Shu-jie PAN	(PSJ)	
	Kenneth MO	(KM)	
	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)
	Tin-cheung CHEUNG	(TnC)	Buildings Department (BD)
	Sunny CHAI	(SyCi)	Hong Kong R&D Centre for Logistics and Supply Chain Management Enabling Technologies (LSCM)
	Dorothy MA	(DMa)	Environmental Bureau (EnB)
	Harry LAI	(HLA)	Electrical and Mechanical Services Department (EMSD)
	Wai-kwong WONG	(WWK)	Architectural Services Department (ArchSD)
	Sam-choi CHAN	(SC)	Construction Site Workers General Union (CSWGU)
	Benny CHOW	(BCw)	Hong Kong Green Building Council (HKGBC)
	Ka-lung CHAN	(KLCn)	Hong Kong Federation of Electrical and Mechanical Contractors (HKFEMC)
	Thomas Shiu-tong NG	(TN)	The University of Hong Kong (HKU)
In Attendance:	Clarence FUNG	(CF)	Hong Kong Housing Authority

	Ernest LI	(EtL)	(HKHA) Development Bureau (DevB)
	SO Chun-man	(SCM)	Hong Kong General Building Contractors Association (HKGBCA)
	Alex LAM	(ALam)	Environment Protection Department (EPD)
	Hau-wai CHEUNG	(HWC)	Executive Director
	Justin LI	(JL)	Assistant Director
	Sally LEUNG	(SYLg)	Manager – Council Services
	Penny LAU	(PeL)	Manager – Management Support
	James WONG	(JsW)	Manager – Research & Development
	Alan TANG	(AnTg)	Government Seconded – Research & Development
Presenter:	POON Chi-sun	(PCS)	Hong Kong Polytechnic University (PolyU)
	CHEUNG Lam-wah	(CLW)	Hong Kong Polytechnic University (PolyU)
	YEUNG Lok-yee	(YLY)	Hong Kong Polytechnic University (PolyU)
	WANG Lei	(LWg)	Hong Kong Polytechnic University (PolyU)
Apologies:	Ada FUNG	(AF)	for Permanent Secretary for Transport and Housing (Housing)
	Robert LAM	(PHL)	
	Ivan FU	(FI)	
	Stephen LAI	(SLI)	
	Christopher LEUNG	(KYL)	
	Ping-wai CHOW	(PCH)	Hong Kong Construction Industry Employees General Union (HKCIEGU)
	Shun-cheng LEE	(LeSC)	The Hong Kong Polytechnic University (HKPU)
	Edward Chek-pui LO	(CPL)	Hong Kong General Building Contractors Association (HKGBCA)

**PROGRESS REPORT**

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**1.1 Confirmation of the Progress Report of the Com-ENV Meeting No. 004/16 held on 25 November 2016**

Members took note of and confirmed the Progress Report CIC/ENV/R/004/16 of the last Com-ENV meeting held on Friday, 25 November 2016.

**1.2 Matters Arising from the Previous Meeting**

PeL updated Members on the following 4 matters:

Agenda item 4.2 Regarding the progress update of the Mckinsey Interim Report, details were reported under agenda item 1.6.

Agenda item 4.3 Regarding the “Survey on the Potential Utilisation of Prefabrication Yards in Hong Kong – Survey Report”, details were reported under agenda item 1.7.

Agenda item 4.6 Regarding the research project ‘Better Utilisation of Ultimate Strength Gain of Concrete with Pozzolanic Materials for Sustainable Development of Construction Works in Hong Kong, CIC Secretariat had arranged Hong Kong Concrete Institute (HKCI) to present to the Standing Committee of Concrete Technology (SCCT) under Development Bureau on 22 December 2016. Members of SCCT welcomed the findings of the research and suggested departments to facilitate HKCI to collect more site data for verification of the results before revising the General Specifications (GS). HKCI would draft the site data verification plan and submit it for discussion with SCCT by 8 March 2017. CIC Secretariat will report the status in the next

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meeting.

Agenda item 4.7 Regarding the research project “Feasibility of Delivering High-rise Low Carbon Buildings in Hong Kong”, CIC Secretariat received the revised draft summary report from the University of Hong Kong (HKU) on 27 February 2017. HKU would finalise the draft final report with detailed literature review. After discussion with Members of Com-ENV, it was agreed that the CIC Secretariat would circulate the draft summary report for Members to review and comment.

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Agenda item 4.9 Regarding the update from Task Force on Research, Members took note of the latest status of the 12 previously funded research projects related to Environment and Sustainability. CIC Secretariat had also identified some research projects that could be applied to the recommendations listed in the Mckinsey Interim Report which would be reported under agenda item 1.6 CIC Secretariat would update the status of these 12 previously funded research projects and present it to Members for their information at every Com-ENV Meeting.

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Agenda item 4.10 Regarding the Tentative Work Plan and Budget for Year 2017, details were reported under Agenda item 1.9

*(TN joined the meeting at 2.46pm)*

**1.3 Recycling Used Timber Formwork into Lightweight, Thermal-insulating Cement-bonded Particleboards**

Prof. POON from the Hong Kong Polytechnic University (PolyU) presented the research topic “Recycling Used Timber Formwork into Lightweight Thermal-insulating Cement-bonded Particleboards”.

Non-inert construction wastes such as used timber formwork present

a significant burden to landfill disposal in Hong Kong. The objective of the research project was to develop a cost-effective method for recycling used timber formwork into cement-bonded particleboard that can be utilised as ceilings, partition walls, cladding, etc in the building industry. PolyU recommended the way forward is to industrialise the production of these particleboards in order to lower the production cost.

*(JsW and AnTg left the meeting at 3.15pm)*

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

PolyU presented the consultancy study “Provision of Consultancy Services on the Strategy for Management and Reduction of Construction and Demolition Waste in Hong Kong” to Members of Com-ENV.

RiYu briefed Members on the paper CIC/ENV/P/001/17 on 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”.

TF-MRW Meeting No. 001/17 was held on 19 January 2017 whereby PolyU attended the TF-MRW Meeting and presented the Consultancy Project to Members of TF-MRW, including:

- Literature review on current local statutory and overseas policies and measures;
- Proposed strategy and measures for management and reduction of construction waste;
- Feasibility study of on-site snapshot survey for the non-inert construction waste composition in Hong Kong;
- Methodology (upstream or downstream approach) for the non-inert construction waste composition study’;
- Service specification for the methodology; and
- Overall recommendations.

It was agreed in the TF-MRW Meeting No. 001/17 that the final draft

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of the consultancy report was agreed in principle but subject to the final comments from Members of Com-ENV.

After deliberation, Members of Com-ENV endorsed the final draft of the consultancy report in principle with minor amendments to address comments from Members of Com-ENV. At the same time, Members of Com-ENV agreed that the TF-MRW should continue a phase 2 of the study based on the recommendations proposed by PolyU. To proceed forward, Members of Com-ENV requested the TF-MRW to prioritise and categorise the recommendations, such as Government policies and incentives to promote adoption in the industry, facilitate development of local recycling and prefabrication industries and sorting facilities, etc, before submitting the final draft report to CIC Council for approval. It was also recommended to organise a discussion workshop to disseminate the results in the report after publication.

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*(PolyU left the meeting at 3.40pm)*

## 1.5 BEAM-Plus Revamp

BCw from Hong Kong Green Building Council (HKGBC) briefed Members of Com-ENV the latest revamp of BEAM-Plus NB v2.0.

After deliberation, it was agreed that the CIC Secretariat would circulate the draft BEAM-Plus NB v2.0 to Members of Com-ENV for comments, if any, after the meeting. CIC Secretariat would also circulate the draft BEAM-Plus NB v2.0 (extracted version) to Members of TF-MRW for comments, if any, after the meeting.

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BCw added that the convener of the BEAM-Plus NB v2.0 would like the draft BEAM-Plus NB v2.0 document to be circulated on a need to know basis only and not to be distributed to the representing bodies of the Members.

[Post meeting note: CIC Secretariat circulated the draft BEAM-Plus NB v2.0 to Members of Com-ENV for comments, if any, on 16 March 2017. Subsequently, CIC Secretariat circulated the draft BEAM-Plus NB v2.0 (extracted version) to Members of TF-MRW

for comments, if any, on 21 March 2017.]

*(KLCn left the meeting at 3.55pm)*

**1.6 Update of the Mckinsey Interim Report follow-up**

PeL briefed Members of Com-ENV on the paper CIC/ENV/P/002/17 regarding the status update of the Mckinsey Interim Report follow-up.

CIC Secretariat circulated the updated list of Mckinsey Interim Report follow-up, including identifying new research projects applicable to the recommendations, to Members of Com-ENV for comments, if any, on 22 February 2017.

Members of Com-ENV took note of the updated list of Mckinsey Interim Report follow-up and requested CIC Secretariat to update the list for Members' information at every Com-ENV Meeting.

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**1.7 Survey on the Potential Utilisation of Prefabrication Yards in Hong Kong – Survey Report**

PeL briefed Members of Com-ENV on the paper CIC/ENV/P/003/17 on regarding the Survey on the Potential Utilisation of Prefabrication Yards in Hong Kong – Survey Report.

CIC Secretariat circulated the draft Survey Report to Members of Com-ENV for comments, if any, on 1 December 2016. Upon receipt of comments from Members, Mercado Solutions Associates Limited (MSA) reviewed and amended the survey report accordingly. The English and Chinese versions of the final draft Survey Report were endorsed by Member of Com-ENV via email circulation on 24 January 2017. The final draft of the Survey Report would be submitted to CIC Council for approval before publication.

Members of Com-ENV deliberated and agreed that there should be a

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second phase of the study on the potential utilisation of prefabrication yards in Hong Kong based on the findings from the Survey Report. CIC Secretariat would draft the assignment brief for the second phase of the consultancy study, which had been budgeted for in the budget for Year 2017, for discussion in the next Com-ENV meeting. The second phase of the consultancy study should cover, but not limited to, the following:

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- Quantifying market needs;
- Exploring the essential factors for developing local prefabrication yards; and
- Investigating the impact on the existing local labour market.

*(DMa left the meeting at 4.28pm)*

## 1.8 **CIC Sustainable Construction Awards**

JL briefed Members of Com-ENV on the paper CIC/ENV/P/004/17 regarding the objective, framework and timeline of the CIC Sustainable Construction Awards.

The CIC Sustainable Construction Awards, which is planned to take place end October 2017, aims to recognise organisations, companies and individuals who have taken due consideration of sustainability aspects beyond the requirements of the construction projects.

Members of Com-ENV deliberated and endorsed the framework of the Awards.

[Post meeting note: CIC top management and the working group for CIC Sustainable Construction Awards met on 27 March 2017 and agreed to hold the CIC Sustainable Construction Awards in the first / second quarter of 2018.]

## 1.9 **Work Plan and Budget for Year 2017**

JL briefed Members of Com-ENV the paper CIC/ENV/P/005/17



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regarding the Work Plan and Budget of Committee on Environment for Year 2017.

The Work Plan included studying and formulating the way forward strategies for the list of recommendations proposed in the Mckinsey Interim Report, the CIC Sustainable Construction Awards, and executing phase 2 consultancy studies on prefabrication and construction and demolition waste.

Members of Com-ENV deliberated and endorsed the Work Plan and Budget for Year 2017.

*(PSJ left the meeting at 5.00pm)*

**1.10 Any Other Business**

Members of Com-ENV were informed about the biennial CIC Construction Innovation Award 2017. Members were encouraged to submit applications and also assist to promote the Award to the construction industry.

Representatives from Environment Protection Department (EPD) updated Members of Com-ENV that the adjustments to the construction waste disposal charges under the Construction Waste Disposal Charging Scheme would be effective from 7 April 2017.

**1.11 Tentative Date of Next Meeting**

23 May 2017 (Tuesday) at 2:30 pm at the Construction Industry Council ZCB in Kowloon Bay.

All  
to note

There being no further business, the meeting was adjourned at 5:03pm.