

**Construction Industry Council**

**Committee on Environment and Technology**

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Meeting No. 002/12 of the Committee on Environment and Technology for 2012 was held on 29 March 2012 (Thursday) at 2:30 pm at CIC Headquarters, 15/F, Allied Kajima Building, 138 Gloucester Road, Wan Chai, Hong Kong.

Present:

Wai-wai, YU	(WWY)	Chairman
Andrew CHAN	(AC)	
Siu-hung CHAN	(SHC)	
Hau-wai CHEUNG	(HWC)	
Jan-ming KO	(JMK)	
Kevin POOLE	(KP)	
Christopher LEUNG	(CL)	
Choi-kai AU	(CKA)	Director of Buildings
Connie YEUNG	(CYG)	Housing Department

  

In Attendance:

Wai-wah HO	(WWH)	
Jimmy CHAN	(JC)	Development Bureau
Russell JONES	(RJ)	Hong Kong Construction Association
Dan FUNG	(DF)	Environmental Protection Department
T. T. CHOW	(TTC)	City University of Hong Kong
Linda XIAO	(LX)	The Hong Kong Polytechnic University
Raymond YAU	(RY)	
Guiyi LI	(GYL)	Director - Zero Carbon Building
Ivan WONG	(IW)	Senior Manager - Council Services 2
Ivan KO	(IK)	Manager - Council Services 2

  

Apologies:

James KWAN	(YCK)	
Wo-hei LAM	(WHL)	
Derrick PANG	(DP)	
Ada FUNG	(AF)	for Permanent Secretary for Transport and Housing (Housing)

**PROGRESS REPORT**

**Action**

**2.1 Confirmation of the Progress Report of the Previous Meeting**

Members took note of Paper CIC/ENT/R/001/12 and confirmed the progress report of the last meeting held on Thursday, 12 January 2012 at CIC Headquarters, 15/F, Allied Kajima Building, 138 Gloucester Road, Wan Chai , Hong Kong.

**2.2 Matters Arising from the Previous Meeting**

**2.2.1 Research on Adhesion Technologies for External Wall Tiles**

Discussed under Agenda Item 2.8

**2.2.2 Working Group on Building Information Modelling**

Discussed under Agenda Item 2.10

**2.2.3 Proposed Research Policy**

Discussed under Agenda Item 2.5

**2.2.4 Environmental Alert for Transportation of Construction Waste**

Two draft design options for each alert topic (i.e. Overloading of Dump Truck, Cleanliness During Transportation of Construction Waste) were tabled for Members' further comment and selection.

Members endorsed the design options as attached in Annex A for Overloading of Dump Truck and in Annex B for Cleanliness During Transportation of Construction Waste.

Secretariat advised that subject to subsequent approval of the Council, Secretariat will proceed with the printing and distribution to stakeholders.

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**2.3 Research Proposal – Dynamic Performance Evaluation of Zero-Carbon Building in Hong Kong**

Members took note of Paper CIC/ENT/P/010/12.

The researcher presented their proposal with the following key deliverables:

- best practice guidelines specially for the local context;
- performance evaluation report of Zero Carbon Building;
- open seminar for local professionals to meet IEA experts;
- academic publications;

The researcher further elaborated that the deliverables could help:

- to predict of the performance of Zero Carbon Building;
- to elevate industry standards on real-building energy performance assessment;
- to promote CIC's green initiatives and Hong Kong's good construction practices via IEA network.

They would seek for CIC's funding support at the amount of HKD\$1,992,000.00 for this proposal.

After deliberation, Members' views were summarised as below:

1. the study was proposed to be commenced after the Zero-Carbon Building is operated for a certain period of time and given that the systems in the building have been stabilised and finetuned;
2. the study would better be initiated by the CIC so that the scope of the study and deliverables can be tailored to the need of CIC and the relevant industry;
3. it is more preferable for the CIC to define the required scope and work out the schedule of the study.

The Secretariat would raise this proposal to Strategic Planning Committee for their further discussion.

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**2.4 Proposed Nomination of Co-opted Members from Feb 2012 to Jan 2014**

Members took note of Paper CIC/ENT/P/011/12.

New Co-opted Members would be appointed to the Committee. The proposed Co-opted Members are coming from:

- i. re-appointment of task force chairmen; and
- ii. nominations from stakeholder organisations.

The proposed Co-opted Members and organisations to be invited for nominations had been circulated to Members on 29 Feb 2012 and no comments were received.

As Mr. T. T. CHEUNG has declined to be the chair of the Task Force on Research Activities, a replacement would be identified as the new chair of the task force and HKIS would be invited to nominate a Co-opted Member.

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In view of its function to promote innovation in environmental technologies, Chairman suggested extending the invitation to include members of Zero Carbon Building after its establishment of the Board of Directors.

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**2.5 Research on Establishing a Hong Kong Based Carbon Labelling Framework for Construction Materials**

Members took note of Papers CIC/ENT/P/012/12 and CIC/ENT/P/013/12.

The proposed mechanism of benchmarking was discussed in the first session of the consultation forum with stakeholders scheduled for 24<sup>th</sup> February 2012. The implementation strategies and measures were discussed in the second session of the consultation forum, which was held on the same day.

HKU would submit the draft Final Report and Summary Report; and finalised both reports by end of April and June respectively.

## 2.6 **CIC Research Policy**

Members took note of Paper CIC/ENT/P/014/12.

After much deliberation, Members' comments were summarised as below:

1. **Section 6.c.i** – CIC should invite research proposals twice a year, in March and September respectively aiming to facilitate CIC's annual and mid-year budget plan.
2. **Section 6.c.iii** – The research proposal page limit should be increased from 4 pages to 6 pages.
3. **Section 6.e.i** – The processing time table should be revised to give a time limit.
4. **Section 7.d.v** – It should be made clear that CIC shall own all the intellectual property rights arising from the CIC funded projects (no matter full funding or partial funding). If the associated intellectual property rights are partly attributed to the Research Institute's previous work not funded by CIC, the ownership of the intellectual property rights shall be discussed and agreed between CIC and the research institutes on a case by case basis.

Members endorsed the Research Policy in principle. The policy would be revised as per Members' comments (as the above mentioned) and would be circulated to Members for further review in two weeks. Subject to Members' further comment, if any, Secretariat would seek approval for the policy from Com-ANF.

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## 2.7 **Research on River Sand Substitutes for Concrete Production and Cement Sand Mortar Production (Phase One)**

Members took note of Paper CIC/ENT/P/015/12.

HKU submitted Progress No.2 which covered the feedback collected from interview with different institutes; and some preliminary opinions for the way forward.

HKU would conduct some laboratory tests without additional cost though it is beyond the scope of works.

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WWH, Chairman of the Task Force, advised that instead of conducting a comprehensive study to develop standards or specifications for various river sand substitutes in the production of mortar, the task force should focus more specifically on identifying potential alternatives and analysing their practicability, price, quality, performance and expected level of adoption in the market.

**2.8 Working Group on Strategic Implementation of Prefabrication and Modular Construction**

Members took note of Paper CIC/ENT/P/016/12.

A site visit to a prefabrication yard was made on 9 March 2012 to help task force members understand and keep abreast of the working conditions and environment in prefabrication yard.

The Secretariat reported that the discussions were mainly focused on the pros and cons of using prefabrication and modular construction. It was expected that the drafting of the report would be carried out after two more meetings.

Members reminded that the scope of the discussions should not limit to concrete modular, modular construction of E&M and building services should also be discussed.

**Task Force of  
Prefabrication  
and Modular  
Construction**

**2.9 Research on Adhesion Technologies for External Wall Tiles**

Members took note of Paper CIC/ENT/P/017/12.

Task Force Members' views were diversified with regard to the publication of the research documents. After much deliberation, the views of the Task Force on publishing the two documents, namely the Study Report and the Reference document were set out in the paper and summarised below:

Reference Document

No consensus could be reached on the publication of the Reference as some task force members were considered that no matter what the document was named, it would give an impression that the industry practitioners were required to follow.

In this regard, Com-ENT was recommended to consider either “issuing the full Reference Document” or “not to issue at all” and should not merely issue only part of the Reference document.

Study Report

In order to conclude the research and allow the public to assess the research outcome for reference, Task Force Members had come up with a general consensus that a full Study Report would be issued to the public during the meeting as a study report would not reveal any position of CIC on the subject matter.

Members’ views were sought on whether to publish the following documents:

- full Reference Document;
- full Study Report.

However, after a long deliberation at the meeting, Members’ views were diverse. The subject would be further discussed at the next Com-ENT meeting.

**2.10 Report Update on Migration from British Standards to Eurocodes**

Members took note of Paper CIC/ENT/P/018/12.

DevB expressed that the current migration plan was scoped to “design” only whereas there was no plan to the migration of “material” and “testing” up till.

However, DevB noted that design specification to the material used might be adjusted accordingly. DevB also mentioned that the Government Laboratory is undergoing the review of the impact due to the adoption of Eurocodes.

Chairman suggested that CIC should make a formal note to DevB about the Industry concern on the migration especially the salient points in the adoption of Eurocodes during the construction stage. Also, DevB was suggested to work out with the Industry a road map of the migration so as to ascertain the migration plan of the

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Government.

In view of substantial impact to the Industry, Members proposed to include this topic in the agenda for future Com-ENT meetings.

Members had no objection in principle to publish the update report to public, together with minor comments given by DevB subsequently.

**DevB**

The Secretariat advised that subject to the subsequent approval of the Council, the Secretariat would proceed with the publication.

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**2.11 Working Group on Building Information Modelling**

Members took note of Paper CIC/ENT/P/019/12.

At the previous meeting, Members suggested extending the invitation of membership. The most updated membership organisations and their respective nominations were listed in the paper.

Members endorsed the membership of the proposed Working Group.

**2.12 Outcomes of a HK\$25 Million Industry University Research Collaboration**

Members took note of Paper CIC/ENT/P/020/12 and the executive report of the programme of Industry University Research Collaboration tabled at the meeting.

Members' support was sought to encourage more collaborative efforts between academics and the business sectors to facilitate practical oriented research being moved faster and to cater for the needs of the industry. This programme was set an example towards the collaboration.

**2.13 Any Other Business**

Nil.



**Action**

**2.14 Tentative Date of Next Meeting for 2012**

14 June 2012 at 2:30 pm at the CIC Headquarters, 15/F, Allied Kajima Building, 138 Gloucester Road, Wanchai, Hong Kong **All to note**

There being no further business, the meeting was adjourned at 5:30 pm.