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Seminar on “Energy Performance Contracting: An alternative to implementing energy improvement projects in existing buildings”

Organizers :

Hong Kong Polytechnic Alumni Association
UMT Hong Kong Alumni Association
PolyU Electrical Engineering Alumni Association
PolyU-HKCyberU Alumni Association

Supporting Organizations :

University of South Australia Alumni Association Hong Kong Chapter
Queensland University Alumni Association of Hong Kong
Hong Kong Institution of Chief Engineers (FM)
Hong Kong Institution of Incorporated Engineers (HKIIE)

Speakers : Dr. Patrick Lam-

Associate Professor, Department of Building and Real Estate, HK PolyU

Mr. Pan Lee-

PhD candidate, Department of Building and Real Estate, HK PolyU

Venue : Room HJ303, Hong Kong Polytechnic University

Date : 23-6-2015 (Tuesday)

Time : 7:00pm to 9:00pm

Fee : Free of Charge



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About the Speaker:

Patrick Lam has had rich professional and academic experiences since graduating from the Hong Kong Polytechnic in the 1980s. On the professional side, he had practiced for 10 years in multi-disciplinary design office, consultants and contractor/developer both in Hong Kong and Singapore. On the academic side, he has had substantial experience lecturing on undergraduate and postgraduate programmes in universities and polytechnics both locally and overseas. Whilst teaching, Dr. Lam is active in research and consultancy projects. An academic team led by Dr. Lam was awarded a General Research Fund for carrying out the investigation into the use of Energy Performance Contracting in Hong Kong.

Pan Lee is currently a PhD candidate studying in the Department of Building and Real Estate at the Hong Kong Polytechnic University. He obtained a BEng degree with first-class honors from the Department of Building Services Engineering at the Hong Kong Polytechnic University in 2011. Before pursuing for a PhD degree, he worked for Parsons Brinckerhoff (Asia) Ltd. as an assistant engineer. He is now working on the research project entitled “A model of Energy Performance Contracting (EPC) in Hong Kong”. His research interests include energy performance contracting, green buildings, contract management and risk modeling.



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Synopsis:

Lack of upfront costs and technological know-how are often the barriers to implement building energy improvement projects. In order to tackle these problems, the concept of Energy Performance Contracting (EPC) has been developed since Energy Service Companies (ESCOs) would help building owners to conduct energy audit, design and install energy conservation measures (ECMs), provide guarantees of energy savings, as well as monitor the ongoing performance of newly installed ECMs. The building owner only makes payment after satisfactory completion or progressively when the actual energy savings are really materialised. In some cases, ESCOs may help building owners to finance the upfront cost to alleviate cash flow problems.

This seminar attempts to look at the following aspects:

Differences between EPC projects and conventional retrofit projects

Potential benefits of EPC

The typical EPC process

Risk assessment of energy saving shortfall in EPC projects

EPC contract template for use in HK