

Energy Institute (Hong Kong Branch) 能源學會(香港分會)

(Correspondence Address : Environmental Management Division, Hong Kong Productivity Council, 3/F, HKPC Building, 78 Tat Chee Avenue, Kowloon Tong, Kowloon, Hong Kong (Attn. : Mr. Raymond Fong at 2788 5629 or by fax at 2788 5608)

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Technical Visit on Energy Efficient Technology Development in Shanghai, Hangzhou and Wuxi

On 5-8 July 2007, 11 members joined a four-day delegation to Shanghai, Hangzhou and Wuxi. The delegation was organized by the Energy Institute (Hong Kong Branch), with the support from the Gas and Energy Division of the Hong Kong Institute of Engineers.

On 5 July, the delegation arrived at Shanghai Pudong Airport around noon. After a quick lunch, we visited Horizon Fuel Cell Technologies (Horizon). Horizon is a consumer-oriented fuel cell products producer. They specialize in producing fuel cell demonstration kits and toys for educational and demonstration purposes. Their Business Manager, Mr. Mark Bawtree, delivered an excellent presentation on the development of hydrogen fuel cell technology and explained the theory of fuel cells in detail by using their educational kits. Moreover, Mark showed us around the manufacturing plant. It was a rewarding and enjoyable visit for us to learn about the potential of fuel cell technology.



Delegation members at Shanghai Pudong Airport



Hydrogen fuel cell educational kits



PV to produce electricity for the electrolysis of water to produce hydrogen



Ir Colin Chung, Chairman of Energy Institute (Hong Kong Branch) presenting a souvenir to Mark Bawtree, Business Manager of Horizon

On the second day, we visited two large manufacturing plants, Suntech Power Co., Ltd. (Suntech) and Johnson Control's YORK (Wuxi) Air Conditioning and Refrigeration Technology Co., Ltd., in Wuxi. Suntech is known as the largest photovoltaic (PV) manufacturing company in China. Suntech's Engineering Manager, Mr. Wang, explained in detail on the development of PV technology and how PV could be applied in our daily applications to save energy. Moreover, we took a tour around their manufacturing plant. This helped enrich our understanding on how to produce a PV panel from numerous small sized PV cells. Suntech would expand their PV production by establishing a new manufacturing plant, which would be constructed by building integrated PV panels to produce about 350kW of electricity.



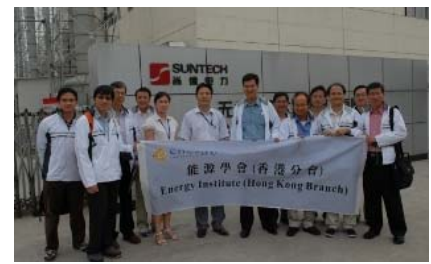
Photovoltaic panel



Suntech's new manufacturing plant, which will be constructed by building integrated PV panels to produce 300kW electricity



Delegation shows keen interest in the development and applications of PV technology



Delegation members and Suntech's representatives

Johnson Control is one of the largest chiller manufacturers in China. Mr. He Xia-yu, General Manger (Director of Technology) of Johnson Control, delivered a welcoming speech, followed by a detailed presentation given by their Customer Services Manager, Mr. Dreamer Zhang. Mr. Zhang presented the distinctive features of their chiller products on energy efficiency as



Dr. H F Chan, Honorary Advisor of Energy Institute (Hong Kong Branch) explaining how algae pollute the water in Tai Hu

well as some successful applications in Shanghai. Their Technical Marketing Manager, Mr. Ricky Choy, took us to visit their chiller manufacturing plant. This was a good opportunity for the delegation to have a comprehensive understanding on how to construct chillers and perform a



Group photo of delegation members with the representatives from Johnson Control

factory test to verify the efficiency of chillers. The tour and subsequent discussions with Mr. He and his colleagues were both fruitful and enlightening. In addition, we visited Lake Tai Hu (太湖) and understood the pollution problem of algae.



Mr. He Xiao-yu, General Manager (Director of Technology) of Johnson Control, delivering a welcoming speech

On the third day of the visit, we met the energy experts of Hangzhou Energy Saving Association. During the meeting, valuable information and knowledge of energy conservation policy and technology in Hong Kong and Hangzhou was exchanged. Following the meeting, we were invited to join a lunch with the experts of Hangzhou Energy Saving Association.



Lunch gathering with Hangzhou Energy Saving Association

The trip was educative and enjoyable, and members returned with knowledge, information, fun and friendship. Taking this opportunity, the organizing committee of this visit would like to express its sincere appreciation to all the participating members and companies. Without their contribution and support, the trip would not be so successful.



Mr. Lou Qing-shan, Director of Hangzhou Municipal Economical Committee - Energy Communication Department, delivering a welcoming speech to the delegation



Group photo of delegation members with the committee members of Hangzhou Energy Saving Association