



香港岩土及岩土環境工程專業協會
ASSOCIATION OF GEOTECHNICAL &
GEOENVIRONMENTAL SPECIALISTS (HONG KONG)

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ANNOUNCEMENT

AGS (HK) AGM Technical Seminar

Design of Offshore Wind Farm Foundations

by

Peter Thompson (Arup)

- Date** : Friday, 15 December 2023
- Time** : 19:00 – 20:00 (Hong Kong Time)
- Venue** : The webinar will be conducted at 1) Zoom; and 2) Fincher Room, Kowloon Cricket Club, No. 10, Cox's Road, Jordan, Kowloon.
- Successful applicants will be informed by emails with a Zoom's link to the webinar (for registration through Zoom). Participants should arrange for their own device with a stable network environment to join the webinar.
- Enquiry** : agshk.org@gmail.com
- Fee** : Free of charge
- Zoom** : https://us02web.zoom.us/webinar/register/WN_In09OS2zStqhRmwTZn2C6A
- Registration** : Please register by 14 December 2023. Successful applicants will receive webinar details after registration. CPD certificate will be sent to the attendees, who attended more than 80% of the webinar time, within 2 weeks after the webinar.
- Book Prize** : The professionals under 35 years old are encouraged to submit their reports (max. 500 words) in quality on this event. Please refer to the AGS (HK)'s website "The AGS Book Prize Reports – Assessment Framework" for details before the submission. The successful candidate will be awarded with the Book Prize that comprises of a book "Geology of Site Investigation Boreholes in Hong Kong" that written by Chris Fletcher, and a coupon of HK\$500 from Eslite Spectrum (誠品生活) or equivalent. Their awarded report will further be uploaded to the website of AGS (HK). Please send your report to Mr. Haydn Chan by email: haydn.chan@arup.com.



Synopsis:

Offshore wind power comes from the generation of electricity through wind farms at sea. In these locations there are higher wind speeds compared to land and therefore offshore farms generate more electricity per unit of installed capacity installed. Offshore wind farms are also less controversial than those on land, as they have less impact on people and the landscape. Most offshore wind farms to date employ fixed-foundation wind turbines in relatively shallow water although floating foundations are becoming more necessary as the available sites are found in deeper waters. A big advantage of offshore wind power compared to onshore wind power is the higher capacity factor meaning that an installation of given nameplate capacity will produce more electricity at a site with more consistent and stronger wind which is usually found offshore and only at very few specific points onshore. This talk will present the fundamental design considerations and techniques used for siting, design and implementation of offshore wind farms in the Asia region.

About the Speaker:

Peter Thompson is a Director and East Asia Energy Business Leader for Arup based in Hong Kong. He has more than 35 years of experience in the management of the design and implementation of major energy and infrastructure works projects across a wide variety of overseas countries. In line with the firm's strategy to facilitate the development of sustainable future outcomes, he has a focus on works that lead to positive climate impacts, improved resilience and net-zero solutions based on commercially sound projects that achieve these aims. As a professional engineer he has particular knowledge and expertise for the design and implementation of renewable energy systems including onshore and offshore wind farms as well as solar and hydrogen facilities and is currently involved with advisory services and the detailed design works for a number of projects currently being undertaken in Hong Kong, Japan, Korea and Taiwan.