**Session Title**: Marine Renewable Energy Harvesting

**Introduction**:

Marine renewable energy offers great potential as a clean energy resource that can accelerate net zero goals and advance economic development opportunities. Over the past years, research advancements have taken place in harvesting offshore wind, tidal, wave, current energy, and green hydrogen contributing towards industry growth and long-term sustainability. Opportunities for harvesting marine renewables are growing, but there are challenges still to be addressed to establish a path to commercialization in terms of device development and iteration, grid integration and application, as well as prognostics and health management for predictive maintenance. This session will include recent research updates on these themes to help advance the energy harvesting sector and engage discussion on what’s needed for marine renewable energy to fuel a sustainable future.

**Topics**:

* Marine energy harvesting device development
* Theoretical analysis and optimization of marine energy device
* Novel design and concept of marine energy device
* Testing and experimental validation of marine energy device

**Session Chair(s)**

* Xiaofan Li, Assistant Professor

Affiliation: The University of Hong Kong, Department of Mechanical Engineering

Email: lixf@hku.hk

Phone: +852-39177904

* Zhenhua Wei, Assistant Professor

Affiliation: Southern University of Science and Technology, Department of Ocean Science and Engineering

Email: weizh@sustech.edu.cn

Phone: +86-755-88011411

* Binrong Wen, Associate Professor

Affiliation: Shanghai Jiao Tong University, Department of Naval Architecture and Ocean Engineering

Email: wenbinrong@sjtu.edu.cn

Phone: +86-021-34207954