About MTCC-Asia

As part of the global efforts to reduce greenhouse gas emissions from shipping, MTCC-Asia was established in 2017 under the auspices of IMO as an international institution of excellence dedicated to maritime technology dissemination, transfer and cooperation for Asia.

Through implementing IMO’s designated tasks including innovative technology pilot projects, capacity building activities at national, regional and global levels, as well as wide technology transfer and cooperation, MTCC-Asia endeavors to promote uptake of low-carbon technologies and operations, and help participating countries develop national energy-efficiency policies and measures for their maritime sectors.

Hosted by Shanghai Maritime University (SMU) in China, MTCC-Asia is being generously supported by existing resources and capacity of SMU and the Municipal Government of Shanghai.
Origin of MTCC

- The concept of establishing a global network of MTCCs to accelerate capacity building and technology transfer in the maritime field arose in response to a resolution (MEPC.220(65)) adopted by IMO in 2013, on “Promotion of Technical Co-operation and Transfer of Technology relating to the Improvement of Energy Efficiency of Ships”.

- The International Maritime Organization (IMO) and the European Commission (EC) reached an agreement in Dec 2015 to establish and seed-fund a global network of five Maritime Technology Cooperation Centres (MTCCs) in developing countries under the framework of the “Capacity Building for Climate Mitigation in the Maritime Shipping Industry” Project, with a €10 million funding contribution from the European Union (EU).

Strategy of MTCC-Asia

Vision

- UPTAKE of the cutting-edge technology and effective operation of the maritime GHG emissions mitigation and ship energy efficiency within Asia.

- SHARE of the successful experience and reliable results within regional maritime administrations, port authorities, other relevant government departments and related shipping stakeholders via effective communication and visibility actions in the pursuit of the implementation with the IMO Instruments such as MARPOL Convention.

- SUSTAINABLE development of shipping industry in maritime sector through dissemination, workshop, Maritime Education and Training and technology cooperation.

Mission

- Assess the condition of GHG mitigation and energy efficiency for ships operating in the Asian region by cooperating with the Asian stakeholders, so as to enforce the respective and effective implementation of the MTCC-Asia work plan.

- Improve the communication between Asian countries and maritime industries to accelerate the implementation of the green shipping strategies as well as the advanced technologies within the Asian region.

- Transfer the GHG mitigation and energy efficiency promotion technologies as well as practices of management to enhance the capacity building in the Asian region.

- Cooperate with other MTCCs under the guidance of IMO so as to accomplish the designated tasks.
Pilot Projects

Pilot Project 1: Uptake of Ship Energy Efficient Technologies and Operations

Task
- Organize the seminars on uptake of ship efficient technologies and operations
- Collect and analyse real-ship data
- Publish and demonstrate the Guidelines on ship trim optimization

Pilot Project 2: Ship Fuel Oil Consumption Data Collecting and Reporting

Task
- Organise seminars on ship fuel oil consumption data collection and reporting
- Develop remote fuel consumption collection and reporting system
- Publish and demonstrate the Guidelines on ship fuel oil data consumption collection and reporting
Organizational Structure

MTCC-Asia Council

- Shanghai Maritime University
- Shanghai International Port Group
- China COSCO Shipping Group
- Binhai Schulte Ship Management (China) Co., Ltd.
- Shanghai Seamariner Broker Co., Ltd.

Vision of MTCC

Prof. Dr. JIN Yongxing
Chairman of MTCC-Asia
Honorary Chairman of the International Maritime Lecturers Association

Activities to be used

- National workshop
- Regional workshop
- Train the Trainer
- Seminar
- Shipboard training
- Pilot project
- Online forum
- Postgraduate education
- e-Learning course
- Setup of contact point in other country
- International conference

Strategy of Implementation

Uptake, Share and Sustainability for Greener Shipping
Events

MTCC-Asia Launch Event

Mr. Kitack Lim, IMO Secretary General
"It is a great honor to be at SMU to open the MTCC-Asia. I would like to show my appreciation for the hard work you have done to make the MTCC-Asia possible."

Ms. Vicky Pollard, First Counsellor at the Delegation of the European Union to China and Mongolia
"We are delighted to be supporting the IMO to set up this new Maritime Technology Cooperation Centre in Shanghai, so that together we can support the Least Developed Countries in the region to limit greenhouse gas emissions from their maritime shipping sector."

Mr. He Jianzhong, Vice Minister of Transport, China
"Shanghai Maritime University won the bidding of MTCC-Asia beating out many other bidders and the establishment of MTCC-Asia in Shanghai will bring new opportunities and impetus to China's green shipping development and the Shanghai International Shipping Center."

Mr. Ying Yong, Mayor of Shanghai
"The establishment of MTCC-Asia in Shanghai under IMO will further improve the building of In Shanghai International Shipping Center and the maritime service system."

1st Regional Workshop in 2017

Over 40 maritime administrators from the region gathered in Shanghai for the 5-day MTCC-Asia Regional Workshop. Participants were from 18 Asian countries, World Ocean Council, Danish Maritime Authority, IAMU, IMLA, MTCC-Caribbean, IMO and EU.

Prof. Shi Xian, Executive Director of MTCC-Asia, Vice President of SMU

2nd Sub-regional Workshop in 2018

Jointly organized by Ministry of Transport, Malaysia, MTCC-Asia Second Sub-regional workshop was held in Dec. 2018 in Putrajaya, Malaysia, with 25 participants from China, India, Indonesia, Malaysia, Sri Lanka and Thailand.

International Conference on Ship Energy Efficiency 2019

Over 40 participants from China MSA, Wartsila Group, Antwerp Port of Belgium, Shanghai Port Group, China COSCO Shipping Group, MTCC-Latin America demonstrated and exchanged the latest technology innovations, operations and practices on ship energy efficiency.
1st Global Forum on Green Shipping in 2018
IMO Secretary General Kitack Lim Visited MTCC-Asia
IMO’s work is to cut greenhouse gas emissions, reduce the Sulphur content of ships’ fuel oil and to require strict ballast water management.

2nd Global Forum on Green Shipping in 2019
About 100 delegates from all over the world attended the forum to address challenges and strategies of climate mitigation for the maritime shipping industry.

Mr. Song Baoru
“SMU has been long-time committed to building high-quality shipping talents in service of the national strategy of marine power and shipping power.”

Mr. Christopher Charles Trelawny, Chief of Sub-Division for Maritime Development of the Technical Cooperation Division of the IMO

Networking & Visitors
IMO Secretary General Mr. Kitack Lim met with MTCC-Asia Chairman Prof. Jin Yongping at IMO Headquarters.

IMO acknowledged the contributions made by MTCC-Asia in capacity building for ship energy efficiency within Asia at GMN activity held at IMO in Dec 2017.

Global MTCCs Network was formally established in Dec 2017.

Prof. Jin Yongping, Chairman of MTCC-Asia, and Mr. Huan Wei, Head of MTCC-Asia attended the Capacity Building Workshop for MTCCs at IMO Headquarters.

Mr. Wang Yingming, MTCC-Asia Deputy Head, joined the GMN presentation during MEPC 72 held in April 2018 at IMO Headquarters.
Mr. Zhang Qhi, Senior Consultant of MTCC-Asia, and Executive President of COSCO Shipping Central America, attended the launch event of MTCC-Latin America in March, 2018.

Prof. Jin Yongqing, Chairman of MTCC-Asia, attended MTCC-Caribbean Second Regional Workshop in Trinidad and Tobago.

MTCC-Asia Technical Officer Mr. Zhou Fang spoke at MTCC-Africa launch event in 2017.

MTCC-Asia Technical Officer Ms. Xie Jieying exchanged ideas on ship energy efficiency and fuel oil data collection at MTCC-Pacific workshop.

The Chinese delegation highlighted the MTCC-Asia project as an important foundation and prelude to the implementation of the energy efficiency of ships at 35th ASEM Maritime Transport Working Group Meeting.

Mr. Lawrence D. Barchue
Assistant Secretary-General, Director of Department for Member State Audit and Implementation Support of IMO
March 2018.

Mr. Xiaojie ZHANG
Deputy Director of the International Cooperation Department of Ministry of Transport of China, Chairman of IMO Council
March 2019.

Dr. Sun Xing
Technical officer of the GMN Project Coordination Unit (PCU), IMO
June 2019.

Ms. Petra Doubkova
Policy officer of DG Mobility & Transport (MOVE), European Commission
May 2019.
Cambodia Branch Office

In cooperation with the Ministry of Public Works and Transport of the Kingdom of Cambodia, the MTCC-Asia Branch Office in Cambodia was established on Dec 16 2017.

It is missioned to:

Act as a Centre of Excellence in the sub-region of Southeast Asia to promote the uptake of ship energy efficiency technologies and operations in maritime transport in the region around Cambodia;

Build up the maritime capacity and facilitate the compliance with existing international maritime regulations in the sub-region, engages stakeholders to promote low carbon shipping.

MoU signed by Prof Jin Yongping, Chairman of MTCC-Asia and Mr. Leng Thun Yuthe, Under-secretary of State of Cambodia.

Mr. Sun Chanthol, Senior Minister of Public Works and Transportation of Cambodia and Prof Jin Yongping, Chairman of MTCC-Asia, together unveiled the plaque of MTCC-Asia Cambodia Office.

MTCC-Asia Sub-regional workshop held in Cambodia.

Myanmar Branch Office

The second Branch Office of MTCC-Asia was launched on 5 November 2018 at the Myanmar Maritime University (MMU), Yangon, in collaboration with the Department of Maritime Administration, Ministry of Transportation and Communication, Myanmar.

The Branch Office in Myanmar acts as a sub-region focal point for MTCC-Asia which is a part of the IMO Global MTCCs Network.

Mr. Thaung Kyaing, Director General of Department of Maritime Administration
“...The establishment of Myanmar branch office is another historical moment for MTCC-Asia as it continues to fulfill its mission for the region to support IMO in addressing climate change issues in the maritime sector.”

Prof. Shi Xin, Executive Director of MTCC-Asia and Vice President of Shanghai Maritime University
“GHG emissions reduction for the shipping industry is critically important. MTCC-Asia provides the opportunity for the Myanmar maritime sector to increase the uptake of low-carbon technologies and operations.”
E-learning course

MTCC-Asia offers the trainees an opportunity to self-earn or learn with guidance through its E-learning courses. Trainees can get access to the E-learning by registration and logging onto the MTCC-Asia E-learning website 24 hours a day, and anywhere where the internet is available. Simultaneous distance learning guide is provided in particular for branch offices in Myanmar and Cambodia, or any organization that needs the virtual face-to-face interaction, with the help of MTCC-Asia Technical Officers. Trainees can learn energy efficiency related courses, which mainly cover the International Maritime Conventions, Ship Energy Efficiency Management and Technologies, Shipping Industry Management and Practices.

E-learning course for Cambodia Branch Office from May 1st to June 30th 2019.

E-learning course for Myanmar Branch Office from Sep 16th to October 16th 2019.