



GMN | The Global
MTCC Network
A global network for energy-efficient shipping

GMN SUMMARY REPORT

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INTERNATIONAL
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MESSAGE FROM THE EDITOR



It is my pleasure to bring you the second bi-annual newsletter of the Global MTCC Network (GMN) Project. This ambitious initiative, led by the International Maritime Organization and funded by the European Union, has already resulted in the successful establishment of the Global Network of Maritime Technology Cooperation Centres (MTCCs). The project is working towards ensuring that the MTCCs become centres of excellence for their respective regions when it comes to energy efficiency in the maritime sector.

We are proud to announce the official establishment of the Global MTCC Network in December 2017 when five MTCCs formalised their cooperation under a Memorandum of Understanding. Since the end of last year, the MTCCs have also extended their network to Cambodia, where MTCC Asia established a branch office to bring greater benefits to Southeast Asia. Another important milestone, the GMN has established the Global Stakeholders Committee, consisting of a wide range of organizations working in the maritime sector, to provide advisory support to the Network.

This newsletter provides details on these and other achievements of the GMN project over the past 6 months, as well as highlighting upcoming activities.

The GMN Team is proud of the progress the project has made in the limited time that has elapsed since the inception of the project and the establishment of the MTCCs. I hope you will enjoy reading this latest summary report. We are always happy to hear suggestions from our readers on the topics you would like to see in future newsletters.

With your continued support and partnership we will ensure our successes are replicated and sustained in the future.

Thank you,

Tamar Barabadze
GMN Project Manager



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GMN IN THE NEWS

GMN AT COP 23

IMO participated at the Bonn climate change talks (COP 23) in a range of side- and special events, following its report on progress to the Subsidiary Body for Scientific and Technical Advice (SBSTA 47).

During a special side event at the COP 23, the GMN project presented an update and overview of its activities, while MTCCs updated the audience on their pilot projects, including data collection on fuel oil consumption on ships.



GMN AT FUTURE-READY SHIPPING CONFERENCE

The joint Singapore-IMO International Conference on Maritime Technology Transfer and Capacity-Building, also known as Future-Ready Shipping Conference 2017, was held in Singapore in September 2017. The Conference looked at future collaborations that can drive discussions towards identifying opportunities that can have an impact on the shipping industry as it moves towards decarbonization. During the event, the GMN project was presented to the audience by IMO's Jose Matheickal and representatives from MTCC-Caribbean.



THE FIVE HOST INSTITUTIONS

MTCC-CARIBBEAN

University of Trinidad and Tobago (UTT), Trinidad and Tobago

MTCC-AFRICA

Jomo Kenyatta University of Agriculture and Technology (JKUAT), Kenya



MTCC-PACIFIC

Pacific Community (SPC) in collaboration with the Secretariat of the Pacific Regional Environment Programme (SPREP), Fiji

MTCC-LATIN AMERICA

International Maritime University of Panama (UMIP), Panama

MTCC-ASIA

Shanghai Maritime University (SMU), China

SUMMARY OF DELIVERED ACTIVITIES BY MTCCS



SEPTEMBER - MTCC-ASIA REGIONAL WORKSHOP

MTCC-Asia held its first regional workshop under the GMN project. Maritime administrators from over 20 countries across Asia gathered at the MTCC-Asia office in Shanghai to discuss ways to bring shipping into a low carbon future. Participants also focused on national priorities and barriers relating to topics such as greenhouse gas control, ship energy-efficiency and technologies applied for fuel consumption data collection. A key outcome of the workshop was the establishment of the MTCC related network of Government Focal Points across Asia.



OCTOBER - MTCC-PACIFIC NATIONAL WORKSHOP

The First National Workshop on Energy Efficient Operations of Ships was held in Suva, Fiji. The event was attended by industry and government representatives from Fiji.

The objective of the National Workshop was to inform the participants on new energy-efficient technologies, tools and methods to monitor and reduce fuel oil consumption of Fiji's domestic shipping fleet. This workshop aimed to contribute to national efforts to reduce greenhouse emissions and meet Fiji's Nationally Determined Commitments (NDC) under the Paris Agreement on climate change.



NOVEMBER - MTCC-CARIBBEAN SUB-REGIONAL WORKSHOP

The MTCC-Caribbean sub-regional workshop was held in New Kingston, Jamaica and was attended by participants from 6 countries that are part of the Northern Sub region; the Bahamas, Belize, Cuba, the Dominican Republic, Haiti and Jamaica. The outcomes of the workshop included integration of MTCC Caribbean's data collection form into existing data collection and reporting mechanisms. MTCC Caribbean also began establishing baselines for the legal and institutional framework and existing data collection systems in each territory.



DECEMBER - MTCC-PACIFIC LAUNCH EVENT AND REGIONAL CONFERENCE

The MTCC-Pacific centre was launched in Suva, Fiji. It is hosted by the Pacific Community (SPC) in collaboration with the Secretariat of the Pacific Regional Environment Programme (SPREP). The number of participating countries / territories at the regional conference was 16. Speaking at the launch, Fiji's Minister for Forests and Acting Minister for Fisheries, the Hon. Osea Naiqamu, highlighted the importance of the Centre both to Fiji and to the wider Pacific community: "This centre of excellence will provide invaluable support to Pacific Island Countries and Territories towards progressing their respective priorities and commitments towards achieving sustainable transport and reducing greenhouse gas emissions". Following the launch, maritime industry leaders from across the region and international experts participated in the MTCC-Pacific Regional Conference.



DECEMBER - MTCC-AFRICA LAUNCH EVENT AND REGIONAL CONFERENCE

The launch ceremony of MTCC-Africa was led by Ms. Nancy Karigithu, principal secretary of Kenya Maritime and Shipping Affairs. The event took place in Mombasa, Kenya and was attended by representatives from 13 African countries. Speaking at the launch event, Assistant Secretary General / IMO Director of the Marine Environment Division, Stefan Micallef, praised the launch of MTCC-Africa and the importance of its mission to promote low-carbon shipping. The EU was represented at the launch by Mr. Bruno Pozzi, the Deputy Head of the Delegation of the European Union to Kenya. Following the launch, maritime industry leaders from across Africa participated in the first MTCC-Africa Regional Conference.



DECEMBER - MTCC-ASIA SUB-REGIONAL WORKSHOP

Held at the MTCC-Asia branch office in Phnom Penh, Cambodia, some 40 participants from Malaysia, Myanmar, Thailand, India, Indonesia, Cambodia and China attended the MTCC-Asia Sub-regional Workshop and Train-the-Trainers Course, focusing on GHG mitigation from maritime transport and ship energy efficiency technologies.

HIGHLIGHTS

WORK BEGINS ON PILOT PROJECT FOR FUEL CONSUMPTION DATA COLLECTION

Tied to IMO's continuing efforts to implement and enforce the global energy-efficiency regulations for international shipping, and as part of an experience gathering exercise, each MTCC has been tasked with collecting and consolidating fuel consumption data from selected ships within their respective regions. The main purpose of this initiative is to help build capacity and establish data reporting systems. The Pilot Projects are scheduled for completion in 2019.

Since this is a pilot project to gather experience, it should be noted that any data submitted as part of the MTCC pilot project will not be used by IMO for the IMO mandatory requirements under MARPOL Annex VI Chapter 4, Regulation 22.

During 2017, most MTCCs began working with targeted countries and shipping companies to implement the pilot projects and begin the process of collecting data. MTCC-Caribbean, for example, has been working in close cooperation with key stakeholders across the region to develop a template data collection form. Since June, 2017, it has begun receiving completed data forms from participating vessels. In 2017, over 204 ships have submitted completed forms to MTCC-Caribbean.



MTCC-ASIA BRANCH OFFICE ESTABLISHED IN CAMBODIA

MTCC-Asia took a major step in reaching out to the region with the launch of its first branch office. The launch took place on 18 December 2017, in Phnom Penh, Cambodia, and was undertaken jointly with the Ministry of Public Works and Transport of Cambodia. The branch office will act as a sub-regional centre for MTCC-Asia to develop and promote low-carbon maritime transport systems.

Speaking at the launch event, H.E. Sun Chanthol, Senior Minister of Ministry of Public Works and Transport of Cambodia, appreciated the GMN Project saying it has provided a rare opportunity for Cambodia to catch up with the pace of the world in the uptake of low-carbon technologies and operations in maritime industry.

Prof Jin Yongxing, Director of MTCC-Asia, and Chair of University Council of Shanghai Maritime University (the host institute for MTCC-Asia), said, "the establishment of Cambodia branch office is a historic moment for MTCC-Asia as it continues to fulfil its mission to promote GHG emission control and green shipping awareness for the region."



GMN INTERNATIONAL LAUNCH EVENT

The Global MTCC Network was officially launched on 4 December 2017 at IMO headquarters in London. The Directors of the five regional Maritime Technology Cooperation Centres (MTCCs) signed a Memorandum of Understanding to establish the global maritime technology centres network.

Speaking at the signing, IMO Secretary-General Kitack Lim offered his congratulations to the MTCC representatives, MTCC host institutions, host countries and regions, the European Union, and the IMO team for the rapid progress made in forming the GMN since the project was first mooted two years ago.

"Today, we live in a world in which new technology seems poised to have a transforming impact on all our lives. Shipping is no exception. Technology holds the key to a safer and more sustainable future for shipping," Mr. Lim said.

Also present at the signing ceremony was Ms Magda Kopczynska, Director of Waterborne Transport of the European Commission who expressed her appreciation of the MTCCs work and results already demonstrated.



MTCC-PACIFIC BEGINS PORT AUDITS ON ENERGY EFFICIENCY ACTIVITIES

As part of its implementation of a demonstration pilot project on ship energy efficiency technologies, MTCC-Pacific has begun conducting energy audits of ports across the Pacific.

It is intended that these energy audits along with accompanying measures will provide an opportunity to achieve lower carbon footprint and lower energy bills, whilst, at the same time, resulting in an increase in efficiency, enhanced competitiveness and greener ports.

During 2017, energy audits were conducted in Solomon Islands (Honiara and Noro) and Samoa (Apia) ports and in Fiji (Suva). Three ports (Suva, Honiara and Noro) are currently collecting energy consumption data for further study.

During the energy audit of the Solomon Island ports, recommendations included the following:

- Installing a yard lighting control system and upgrade yard lighting on the new wharf to LED
- Install a rooftop solar PV system and upgrade office lighting to LED
- Undertake an eco-driver training program including installation of fuel flow meters
- Rationalize vehicle yard movements with a TOS and changed modes of transport
- Install occupancy sensors on indoor lighting

Following the implementation of certain recommendations, Solomon Islands Port Authority saved over US\$ 5,000 on September electricity bill compared to August with management of electricity power usage at the new berth – around 7,800 kWh.



DECEMBER - GMN GLOBAL STAKEHOLDER COMMITTEE MEETING

Held at IMO headquarters in London, the first meeting of the GMN Global Stakeholders Committee (GSC) brought together technical experts to share ideas and provide long-term strategic guidance to the GMN project. The GSC members were selected based on their expression of interest submitted to IMO.

Committee members include representatives of Organization:

- Caribbean Shipping Association/ Manzanillo International Terminal– Panama (MIT-Panama)
- European Maritime Safety Agency (EMSA)
- International Association of Maritime Universities
- International Windship Association
- World Bank
- The Great Eastern Shipping Company
- Norwegian Ministry of Environment
- Lloyd's Register
- Stena Group
- INTERTANKO
- International Chamber of Shipping
- World Maritime University
- Energy Research Institute, Nanyang Technological University
- Argentine Navy
- Maritime Transport Agency of the Ministry of Economy and Sustainable Development of Georgia
- Government of the Cook Islands
- EU Waterborne Technology Platform (SEA Europe)



OUTREACH

GMN WEBSITE

For further information regarding the GMN project visit <https://gmn.imo.org>.

To learn about this and other EU projects visit <https://europa.eu/capacity4dev/>



GMN SUMMARY REPORTS

The GMN summary reports provide a bi-annual update on GMN progress and upcoming activities. These reports are available on the GMN website.



SOCIAL MEDIA

The project is promoted via IMO's social media platforms, including Facebook and Twitter (@IMOHQ).



LOOKING AHEAD JANUARY – JUNE 2018



FEBRUARY - MTCC PACIFIC - NATIONAL WORKSHOP - SOLOMON ISLANDS

The workshop will focus on Energy Efficient Ship Operations and Training on the development and Implementation of Ship Energy Efficiency Management Plan (SEEMP).



MARCH - SUB-REGIONAL WORKSHOP - ANTIGUA

Workshop topics will include assessing the results of data gathering pilot project and determining the current state of national initiatives on GHG emissions, with special reference to MARPOL Annex VI.



MARCH - LAUNCH EVENT AND REGIONAL WORKSHOP - REPUBLIC OF PANAMA

The event will formally launch MTCC-Latin America as well as review regulations on energy efficiency for ships and examine stakeholders' experiences and viewpoints regarding the implementation of such provisions.



MAY - NATIONAL WORKSHOP - MADAGASCAR

Topics to be confirmed.



MARCH - NATIONAL WORKSHOP - REPUBLIC OF SAMOA

The workshop will focus on Energy Efficient Ship Operations and Training on the development and Implementation of SEEMP.



MAY - NATIONAL WORKSHOP - REPUBLIC OF THE UNION OF MYANMAR

To focus on the transfer of ship energy efficiency technologies and capacity building for maritime authorities.



APRIL - NATIONAL WORKSHOP - REPUBLIC OF THE VANUATU

The workshop will focus on Energy Efficient Ship Operations and Training on the development and Implementation of SEEMP.

MAY - NATIONAL WORKSHOP - TUVALU

Topics to be confirmed.

JUNE - NATIONAL WORKSHOP - KIRIBATI

Topics to be confirmed.

JUNE - NATIONAL WORKSHOP - REPUBLIC OF THE MARSHALL ISLANDS

Topics to be confirmed.



JUNE - NATIONAL WORKSHOP - PANAMA

The core focus of this workshop will be IMO regulations, SEEMP plans, fuel efficient operations and shipboard maintenance.

PROGRESS REPORT

- ✓ LAUNCH EVENTS FOR MTCC-AFRICA AND MTCC-PACIFIC
- ✓ FORMALLY ESTABLISHED GMN NETWORK THROUGH MOU SIGNED BY ALL THE MTCCS
- ✓ REGIONAL WORKSHOPS HELD BY MTCC-AFRICA AND MTCC-PACIFIC
- ✓ ESTABLISHMENT OF GLOBAL STAKEHOLDERS COMMITTEE
- ✓ ONE NATIONAL, TWO SUB-REGIONAL AND 4 REGIONAL MTCC WORKSHOPS
- ✓ FIRST MTCC BRANCH OFFICE ESTABLISHED

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