



MARITIME TECHNOLOGY COOPERATION CENTRE AFRICA (MTCC AFRICA)



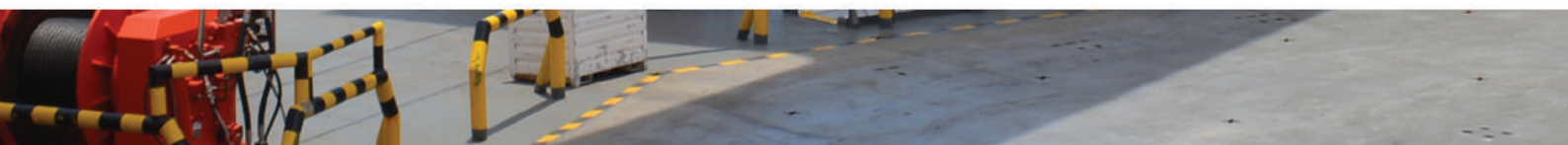
This project is financed by the European Union and implemented by the International Maritime Organization



Host of
MTCC AFRICA

MTCC Africa is supported by
Kenya Maritime Authority &
Kenya Ports Authority

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The GMN Initiative

Funded by the European Union (EU) and implemented by the International Maritime Organization (IMO), the Global MTCC Network (GMN) is formally titled *“Capacity Building for Climate Change Mitigation in the Maritime Shipping Industry”*. This initiative establishes and unites Maritime Technologies Cooperation Centres (MTCCs) from five regions into one global network. The five target regions are Africa, Asia, the Caribbean, Latin America and the Pacific which were selected on account of the many developing countries, especially Least Developed Countries and Small Island Developing States located therein.

MTCC Africa

MTCC-Africa is hosted by Jomo Kenyatta University of Agriculture and Technology (JKUAT) in partnership with Kenya Maritime Authority (KMA) and Kenya Ports Authority (KPA).

Need for Focal Points

In order to execute its mandate, MTCC-Africa will work in collaboration with several selected countries as focal points to serve the different African maritime regions of North (Suez / Mediterranean), West (Atlantic), Central (Landlocked Countries), South African, East (Indian Ocean) and Small Islands States. The focal point countries will appoint a designated contact who will be liaising directly with MTCC-Africa secretariat on the planned activities of the MTCC-Africa, including data collection and transmission to the data Centre.

Pilot Projects

Within the 3 years, MTCC-Africa will undertake two main pilot projects, namely fuel consumption monitoring and on-shore power supply to ships. These projects will be carried out by Green House Gas and Energy Efficiency Experts under the supervision of the MTCC-Africa head.

Pilot Projects

One of our obligations in the Contract is implementation of Pilot Projects as listed under Articles 4.1[c] and [d]; and Clauses 3 and 4 of Annex I, of the CONTRACT.

On both pilot projects, we will target ships based on their regularity of call to Mombasa and willingness to team up with MTCC-Africa.

The pilot projects include Onshore-Power Supply (OPS) and Fuel Consumption Data Collection pilot projects.

Pilot Project 1 – Onshore-Power Supply [OPS]

Pilot Project 1 – Uptake of ship energy efficient technologies and operations (Onshore-Power Supply [OPS] / Cold Ironing) is being managed by a team of Energy Efficiency (EE) Experts.

Initially, the project was to be constructed at Bert No. 16. However, the ships currently using this berth are not shore-power-ready. We therefore decided to relocate to Berth No. 1 which is patronised by ships from Ignazio MESSINA Shipping Line that are shore-power-ready.

This pilot project will be fully funded by Kenya Ports Authority (KPA), one of the MTCC-Africa partners. The detailed design was completed in readiness for procurement of a construction contractor. MTCC-Africa was waiting for formal allocation of funds by the management of KPA, where after the tendering process will commence.

Pilot Project 2 – Fuel Consumption Data Collection

Pilot Project 2 – Fuel Consumption Automated Data Collection and Reporting is being managed by a team of Green House Gases (GHGs) Experts.

For this pilot project, JKUAT has subcontracted part of the works to M/S Collecte Localisation Satellites (CLS). They will assist in Automated Data Collection and Reporting by installing Tablets / Computers on board ships. Collected data will then be relayed through satellites (SATCOM). There will also be manual data collection aboard ships by examining logbooks and bunker deliveries. Pacific International Lines (PIL) has volunteered eight vessels to this project.

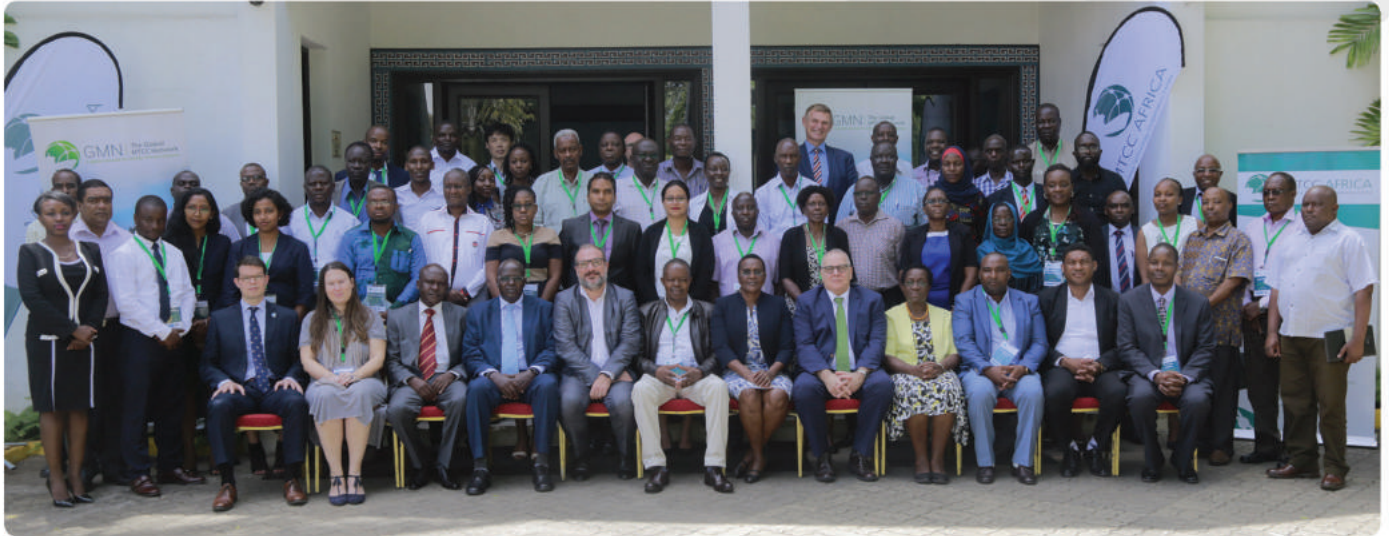
Air Quality Baseline Survey

The air quality baseline survey will be a complementary study to Pilot Project 2. It will be undertaken by the Kenya Meteorological Department (KMD).

It comprises data collection of on air quality within the Port. Regular monitoring will be done every three months to provide us with a Baseline Survey.



MTCC AFRICA SUMMARY OF ACTIVITIES



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1. Formation and Capacitating of MTCC-AFRICA

JKUAT is the Host Institution for MTCC-Africa. MTCC-Africa is then domiciled under the office of the Vice Chancellor for ease of management. Its organizational structure was approved by JKUAT Senate on 5th April 2017. MTCC-Africa is composed of three full time staff members namely the MTCC-Africa Head, Administrative Officer and an ICT Officer. Eng. Michael Muchiri the MTCC-Africa Head was deployed from the Ministry of Transport, Infrastructure, Housing and Urban Development (MOTI-HUD). The Administrative and ICT Officers were recruited in April 2017. To augment the technical capacity of MTCC-Africa, we have a team of experts who serve on a part-time basis.



2. GMN MOU Signing in London

The Global MTCC Network (GMN project) formally launched in December 2017. MTCC-Africa, together with the other 4 MTCC's, was invited to IMO Headquarters in London to participate in the Launch of the Global Maritime Technology Cooperation Centres Network (GMN). Each of the MTCCs made a presentation on their achievements where after a joint Memorandum of Understanding (MOU) was signed.



3. Stakeholders Engagement

I. Meetings with KSAA

During the year, various meetings were held with stakeholders from the maritime shipping industry that served as capacity building and networking forums. Key amongst them was with the Kenya Ships Agents Association (KSAA) which was established to promote the interests of shipping companies that use the Mombasa Port. The meeting was held in Mombasa on the 15th of May and 30th November of 2017 and in addition to discussing emissions from maritime shipping, we agreed on the scope of their participation at the proposed capacity building Workshops.



II. Meetings with Shipping Lines

MTCC visited the offices of Pacific International Lines (PIL) Kenya Ltd, Ignazio MESSINA (K) Ltd and Mediterranean Shipping Company (MSC) Shipping Lines on the 10th of October 2017 and negotiated voluntary availing of ships for the Pilot Projects. All the three shipping lines, confirmed being aware of the proposed limits of fuel emissions and indicated their willingness to support the pilot projects.



MTCC AFRICA SUMMARY OF ACTIVITIES



4. First National Workshop

MTCC-Africa held its first National Workshop on the 19th and 20th June, 2017 at the Sarova Whitesands Hotel, Mombasa, Kenya. It was a sensitization event on climate change and mitigation measures put in place by the maritime shipping industry. The workshop assembled together the different actors from the maritime shipping industry, Government Agencies and Learning Institutions.



5. Regional Workshop and Launch of MTCC-Africa

The Maritime Technology Co-operation Centre for Africa Region (MTCC-Africa) held its first Regional Workshop from the 13th to 15th December, 2017 at the Sarova Whitesands Hotel, Mombasa, Kenya. It was a capacity building event on climate change made possible with support from the European Union and technical oversight by the International Maritime Organization (IMO).

6. Pilot Projects Implementation

One of our obligations in the Contract is implementation of Pilot Projects. On both pilot projects, we will target ships based on their regularity of call to Mombasa and willingness to team up with MTCC-Africa. The pilot projects are as follows:

I. Pilot Project 1 – Onshore-Power Supply [OPS]

Pilot Project 1 – Uptake of ship energy efficient technologies and operations (Onshore-Power Supply [OPS] / Cold Ironing) is being managed by a team of Energy Efficiency (EE) Experts. The project is to be constructed at Bert No. 1 which is patronised by ships from Ignazio MESSINA Shipping Line that are shore-power-ready. This pilot project will be fully funded by Kenya Ports Authority (KPA), one of the MTCC-Africa partners. The detailed design was completed in readiness for procurement of a construction contractor.



II. Pilot Project 2 – Fuel Consumption Data Collection

Pilot Project 2 – Fuel Consumption Automated Data Collection and Reporting is being managed by a team of Green House Gases (GHGs) Experts. For this pilot project, JKUAT has subcontracted part of the works to M/S Collecte Localisation Satellites (CLS). They are assisting in Automated Data Collection and Reporting by installing Tablets / Computers on board ships. Collected data is then relayed through satellites (SATCOM). There is also manual data collection aboard ships by examining logbooks and bunker deliveries. Pacific International Lines (PIL) has volunteered eight vessels to this project.

III. Air Quality Baseline Survey

The air quality baseline survey is a complementary study to Pilot Project 2. It is being undertaken by the Kenya Meteorological Department (KMD). It comprises data collection of air quality within the Port. Regular monitoring will be done every three months to provide MTCC- Africa with a Baseline Survey.

MILESTONE EVENTS & ACTIVITIES

01

Office Setup & Staff Recruitment

The MTCC-Africa is located at the JKUAT Mombasa Campus building. The University provided space which was converted to offices to house the Secretariat.

1st National Workshop (June)

MTCC-Africa held its first National Workshop on the 19th and 20th June, 2017 in Mombasa, Kenya. It was a sensitization event on climate change and mitigation measures put in place by the maritime shipping industry.

02

MOU Signing Ceremony (Dec)

MTCC-Africa was invited to IMO Headquarters in London to participate in the Launch of the Global Maritime Technology Cooperation Centres Network (GMN). Each of the MTCCs made a presentation on their achievements where after a joint Memorandum of Understanding (MOU) was signed.

03

1st Regional Workshop & Launch of MTCC Africa

MTCC-Africa held its first Regional Workshop from the 13th to 15th December, 2017 in Mombasa, Kenya as well as a formal launch of MTCC-Africa was on 13th December

04



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