



# REPORT

## GMN PHASE II

### 1<sup>ST</sup> REGIONAL WORKSHOP

## MARITIME DECARBONIZATION THROUGH ENERGY EFFICIENCY TECHNOLOGY SOLUTIONS

DATE	TIME	VENUE
<b>18 -19</b> MARCH - 2025	<b>09:00 to 17:00</b> (UTC-5 Panama Local Time)	<b>UMIP Auditorium,</b> Building 1033, La Boca, Ancon, <b>PANAMA</b>

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## GMN Phase II - First Regional Workshop – Executive

### Summary

The **MTCC Latin America**, under the framework of **the GMN Phase II Project** (Global Maritime Technology Cooperation Centers Network), implemented by the International Maritime Organization (**IMO**) and funded by the European Union (**EU**), held the First Latin American Regional Workshop on Decarbonization of Maritime Transport through Energy Efficiency Technological Solutions. The event was held at the International Maritime University of Panama (**UMIP**) on March 18 and 19, 2025.

The objective of the workshop was to foster knowledge exchange, enhance regional cooperation, and promote the adoption of innovative and sustainable technologies aimed at reducing greenhouse gas (GHG) emissions in Latin America's maritime sector. Furthermore, the initiative sought to align regional efforts with international climate goals and the 2023 IMO Strategy on Reduction of GHG Emissions from Ships.

The main achievements of the workshop included:

- ✓ Fostering regional cooperation on energy efficiency technological solutions.
- ✓ Identifying key challenges in the adoption of maritime decarbonization measures in the region.
- ✓ Proposing viable solutions to address these challenges and strengthen the role of maritime administrations, financial institutions, the private sector, and academia.
- ✓ Promoting gender equality in maritime energy efficiency initiatives.

The workshop brought together over **90** in-person and virtual participants, including representatives from Maritime Administrations, Port Authorities, Classification Societies, Universities, Maritime Academies, Ship Operators, Energy Providers, NGOs, Research Institutions, International Organizations, and other key stakeholders in the sector.

**MTCC Latin America** provided technical and organizational support for the planning and execution of the event, in alignment with the objectives established under the framework of the **GMN Phase II Project**.



# 1 Workshop Preparation and Coordination

The preparation of the First Regional Workshop of the **GMN Phase II Project** was led by **MTCC Latin America**, in coordination with the International Maritime Organization (**IMO**) and other partner entities. The preparatory activities were carried out in accordance with the guidelines established by the GMN Phase II Project Coordination Unit and included the following key aspects:

1. Overall coordination of the event and collection of presentation materials from the speakers.
2. Development of graphic materials and communications for event promotion, including press releases, invitations, and social media posts.
3. Comprehensive logistical management of the workshop, both in-person and virtual, including participant registration, technical support, and coordination of physical and virtual spaces.
4. Moderation of the sessions and technical support to panelists during the course of the workshop.
5. Preparation of this technical report as the closing document of the event.

## 1.1 Regional Workshop Agenda

The Agenda of the First Latin American Regional Workshop of the GMN Phase II Project (Day 1 and Day 2) was developed by **MTCC Latin America** in collaboration with the **IMO Project Coordination Unit**, with the objective of structurally addressing the main technological, regulatory, and social challenges associated with the decarbonization of the maritime sector in Latin America.

**MTCC Latin America** was responsible for identifying, contacting, and inviting experts, government representatives, industry stakeholders, financial institutions, international organizations, and academic entities, with the purpose of creating a space for technical and strategic discussion focused on:

- Innovative technologies for energy efficiency
- Policies and regulations for decarbonization
- Success stories from the region
- International collaboration and sustainable financing
- Promotion of gender equality in maritime energy efficiency initiatives

The agenda was designed to foster interaction among various regional and international stakeholders and to enable the exchange of knowledge, proposals, and experiences that drive climate action in the maritime sector.

[Click here to access the agenda of the 1st Regional Workshop: Maritime Decarbonization through Energy Efficiency Technological Solutions](#)



## 2 Communication and Visibility Activities

**MTCC Latin America** was responsible for developing and implementing the communication and visibility strategies for the **First Regional Workshop of the GMN Phase II Project**. These activities included the design of promotional graphic materials, the creation of speaker biographies, and the dissemination of invitations and informational publications through social media and other institutional channels.

The platforms used to promote the event were primarily LinkedIn, X, Facebook, and Instagram, where strategic publications were made prior to and during the workshop, with the aim of expanding the reach of the message and encouraging regional participation.

Dissemination was also supported by focal points in the maritime administrations of the countries in the region and by the IMO Project Coordination Unit, which enabled broad visibility in government, academic, and industrial sectors linked to maritime climate action.

**MTCC Latin America** • 1st  
Maritime Technology Cooperation Centre for Latin America  
1mo •

**Primer Taller Regional Latinoamericano del Proyecto GMN Fase II**

El **MTCC Latin America** se complace en anunciar el **Primer** ...more

Show translation



**GMN FASE II**  
**1<sup>ER</sup> TALLER REGIONAL**  
**DESCARBONIZACIÓN MARÍTIMA**  
A TRAVÉS DE SOLUCIONES TECNOLÓGICAS DE EFICIENCIA ENERGÉTICA

FECHA	HORA	LUGAR
<b>18 -19</b> MARZO - 2025	<b>09:00 a 17:00</b> (UTC-5 Hora Local de Panamá)	<b>Auditorio de la UMIP,</b> Edif.1033, La Boca, Ancón, <b>PANAMÁ</b>

**DIRIGIDO A**

- Autoridades Marítimas
- Profesionales del sector
- Organizaciones y
- Partes interesadas

**EXPOSITORES**  
Nacionales e Internacionales

**MODALIDAD**  
Presencial

**OBJETIVOS**  
Promover tecnologías y prácticas operativas energéticamente eficientes y sostenibles.

Promover la equidad de género mediante la mejora de las capacidades de las organizaciones y redes marítimas de mujeres para participar en iniciativas de eficiencia energética.

El taller apoya los esfuerzos globales para alcanzar los Objetivos de Desarrollo Sostenible de las Naciones Unidas (ODS), en particular el ODS 13 (Acción por el clima) y el ODS 5 (Igualdad de género).

5 SEMANAS DE CLASES 13 SEMANAS DE ODS

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with **Gabriel Fuentes-Léscano** and 29 others • [umip.ac.pa](http://umip.ac.pa)

**Mtcc Latinamerica** está con **Javier Díaz** y 24 personas más.  
27 de febrero •

**Primer Taller Regional Latinoamericano del Proyecto GMN Fase II**

El **Mtcc Latinamerica** se complace en anunciar el **Primer Taller Regional Latinoamericano** del Proyecto GMN II - Global Maritime Technology Cooperation Centres Network project - Phase 2, enfocado en "Descarbonización marítima a través de soluciones tecnológicas de eficiencia energética".

El proyecto GMN II - Global Maritime Technology Cooperation Centres Network project - Phase 2 II está financiado por la Unión ... Ver más



**GMN FASE II**  
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**MTCC Latin America** @MTCC... • 02/27/25 •

El **@MTCC\_LAmerica** y la **@umaritima** se complace en anunciar el **Primer Taller Regional Latinoamericano** de la Fase II del Proyecto GMN de la **@IMO HQ**, enfocado en Descarbonización marítima a través de soluciones tecnológicas de eficiencia energética, con el apoyo de la Unión Europea.



**GMN FASE II**  
**1<sup>ER</sup> TALLER REGIONAL**  
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Social Media



All workshop artwork, including flyers, promotional materials, videos, and presentations, was developed by **MTCC Latin America** with the approval of the IMO's GMN Phase II Project Coordinating Unit. The International Maritime University of Panama (**UMIP**), as the host institution for MTCC Latin America, provided the institutional and logistical support necessary to ensure the event's success.



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**FOR THE ATTENTION TO**

- Maritime Authorities
- Maritime Professionals
- Organizations and Stakeholders



**OBJECTIVES**

Promote energy efficient and sustainable technologies and operational practices.

Promoting gender equity by enhancing the capacities of women's maritime organizations and networks to engage in energy efficiency initiatives.

The Workshop supports the global efforts to achieve the United Nations' Sustainable Development Goals (SDGs), particularly SDG 13 (Climate Action) and SDG 5 (Gender Equality).



**SPEAKERS**

National and International



**MODALITY**

In person



**5 GENDER EQUALITY**



**13 CLIMATE ACTION**



**MTCC LATIN AMERICA**  
Maritime Technology Cooperation Centre



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



**Global Gateway**



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

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Figure 1





Figure 2



Figure 3

## 2.1 Workshop Logistics

**MTCC Latin America** was responsible for developing the registration system, communicating with registrants, and gathering information related to the workshop.

The **Teams** platform was used for the presentation and development of the workshop, given MTCC Latin America's prior experience with its use and its ability to meet the technical and logistical needs of the event.

The registration link was disseminated both online and via email and was widely shared with maritime industry stakeholders through all **MTCC Latin America** social media platforms.

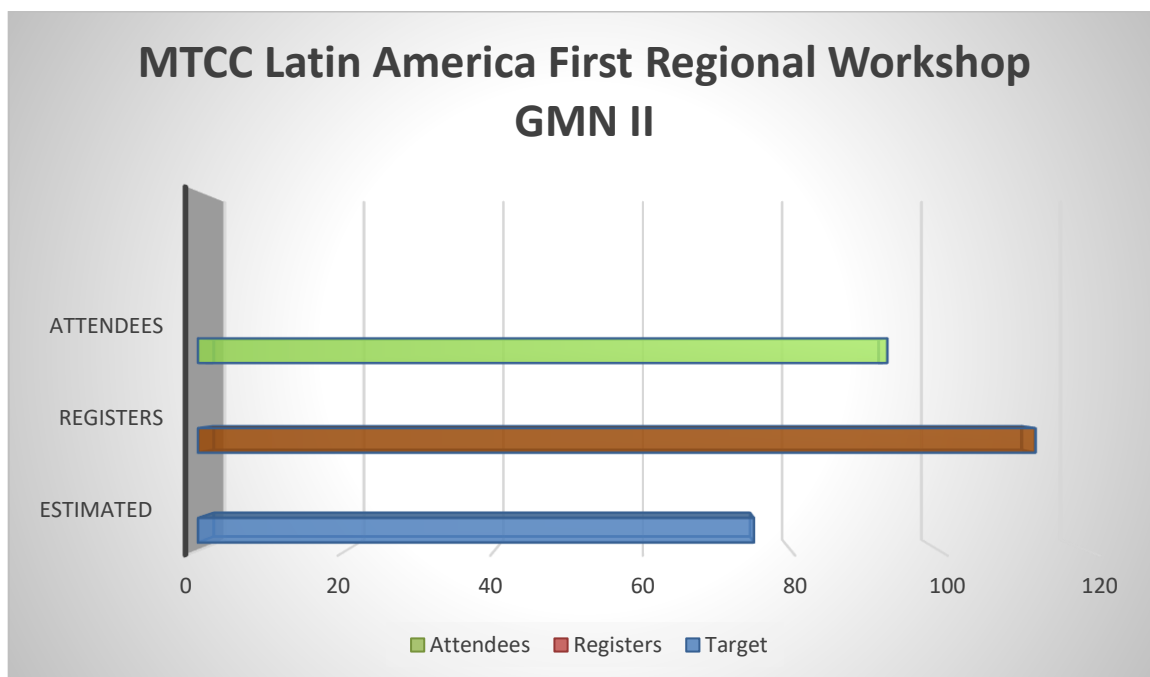
### 2.1.1 Participation in the Regional Workshop

The Latin American Regional Workshop for the GMN Phase II Project was attended by over **90** participants, including high-level representatives from the regional maritime sector, as well as exhibitors, academics, students, and key technical and political stakeholders.

A total of **18 Maritime Administrations** from different Latin American countries attended, far exceeding the expected attendance. Additionally, **approximately more than 20 cadets** from the International Maritime University of Panama and students from other universities actively participated, strengthening the academic integration with the workshop's theme. The participants included representatives from the following sectors:

- Maritime Administrations
- Classification Societies
- Universities and Maritime Academies
- Governmental Entities
- International Organizations
- Maritime Research and Training Institutions
- Non-Governmental Organizations in the maritime sector
- Ports and Port Authorities
- Ship Owners and Operators
- Fuel and Technology Suppliers
- Cadets and students in the maritime field
- Organizers and speakers
- Other relevant stakeholders linked to the maritime sector

Attendance exceeded initial expectations, reflecting the scope, the interest generated, and the effectiveness of the outreach and convening strategies developed by **MTCC Latin America**.



### 3. Workshop Schedule

**MTCC Latin America** was responsible for managing participant registration, communicating with confirmed attendees, and gathering relevant logistical information for the workshop.

The call for participants and the dissemination of the registration form were carried out through institutional social media, emails addressed to key stakeholders in the maritime sector, and official **MTCC Latin America** communication channels.

On-site logistics included welcoming participants, access control, distribution of informational materials, and technical assistance during the event, ensuring a smooth experience for all attendees at the campus of the International Maritime University of Panama.

#### 3.1 Opening Remarks

The official opening of the **First Latin American Regional Workshop of the GMN Phase II Project** was marked by a formal welcome ceremony attended by high-level institutional representatives, who offered key messages regarding the international, regional, and academic commitment to the decarbonization of maritime transport. This session provided a fundamental opportunity to outline the workshop's objectives and reiterate the role each stakeholder plays in the transition toward a cleaner, more efficient, and resilient maritime industry.



The opening remarks were delivered by **Professor Víctor Luna Barahona**, President of the **International Maritime University of Panama (UMIP)**, the event's host institution. In his remarks, Dr. Luna highlighted UMIP's strong commitment to environmental sustainability and its willingness to continue promoting the training of highly qualified professionals capable of leading technological transformation processes in the maritime sector. He emphasized the importance of spaces such as this workshop in fostering knowledge transfer, the exchange of regional experiences, and the consolidation of strategic alliances aimed at common climate change mitigation objectives.



*Keynote Speaker 1*

Subsequently, prominent representatives of national and international organizations spoke, reaffirming the importance of these types of initiatives in advancing the effective implementation of energy-efficient technologies in the region.

**Volney Guinard**, Secretary General of the **Panama Maritime Authority (AMP)**, emphasized the country's strategic role in the global maritime system and the AMP's institutional commitment to adopting public policies aimed at sustainability. He emphasized that Panama, as one of the largest ship registries in the world, assumes an active responsibility in promoting measures that contribute to reducing greenhouse gas (GHG) emissions in maritime transport, working in coordination with multilateral organizations, industry, and academia.



MTCC LATIN AMERICA  
Maritime Technology Cooperation Centre

**Volney Guinard**  
SECRETARIO GENERAL  
AUTORIDAD MARÍTIMA DE  
PANAMA



► TALLER REGIONAL

*Keynote Speaker 2*

In turn, the **European Union Ambassador to Panama, Izabela Matusz**, delivered an emphatic message about the importance of collective leadership in the face of climate change. In her speech, she noted that the European Union considers the development of initiatives such as the GMN Project a priority, which strengthens technical capacities in key regions such as Latin America, bolsters South-South cooperation, and advances toward concrete and inclusive solutions. She also highlighted the role of climate finance and innovation as catalysts for effective action.



MTCC LATIN AMERICA  
Maritime Technology Cooperation Centre

**Izabela Matusz**  
EMBAJADORA DE LA UNIÓN  
EUROPEA EN PANAMÁ



► TALLER REGIONAL

*Keynote Speaker 3*

On behalf of the **International Maritime Organization (IMO)**, Carlos Salgado, Director of the Latin America and Caribbean Section of the Technical Cooperation Division, conveyed the organization's institutional support for Phase II of the GMN Project, reiterating IMO's commitment to the implementation of its Revised Strategy 2023 for the reduction of GHG emissions from ships. He emphasized the value of Maritime Technology Cooperation Centres (MTCCs) as fundamental pillars for achieving the goal of greener, fairer, and more sustainable global shipping.



*Keynote Speaker 4*

Taken together, the interventions offered during this session not only formally welcomed the workshop attendees but also established a solid political, technical, and academic framework from which the event's contents were developed. Each of the shared messages emphasized the urgency of acting decisively, innovatively, and cooperatively to achieve the maritime sector's decarbonization goals, reaffirming that only through a joint and coordinated effort will it be possible to move toward a sustainable and resilient maritime transport model in Latin America.



## 3.2 Presentation of the GMN II Project and Objectives of the Regional Workshop

As part of the event's technical program, a key introductory session was held to present the general context of the **GMN Phase II Project**, as well as the role and expectations of **MTCC Latin America** within this new phase of international cooperation.

### Presentation of the GMN II Project

The official presentation of the GMN Phase II Project was led by **Petra Ghassemi Ahari**, representative of the **International Maritime Organization (IMO)**, who outlined the organization's strategic vision for capacity development and the implementation of sustainable technological solutions in developing countries.

During her remarks, Ms. Ghassemi Ahari emphasized that Phase II of the project represents a significant evolution of the work carried out in the previous phase, with a stronger focus on regional integration, South-South cooperation, and alignment with the **2023 IMO Revised Strategy** on reducing greenhouse gas (GHG) emissions from international shipping.

The role of the **Maritime Technology Cooperation Centers (MTCCs)** was also highlighted as key players in the dissemination of knowledge, the adoption of good practices, and the generation of replicable and scalable pilot projects. Within this framework, the presentation introduced the structural pillars of Phase II, such as:

- Strengthening regional cooperation networks.
- The development and implementation of appropriate technological solutions.
- The creation of spaces for research, technical exchange, and collaborative innovation.



*Keynote Speaker 5*

## The Role of MTCC Latin America and the Objectives of the Regional Workshop

Subsequently, **Ervin Vargas** and **Javier Díaz**, representing the **MTCC Latin America** team, presented the center's specific work focus for this second phase of the project, as well as the specific objectives of the regional workshop.

Both speakers emphasized that **MTCC Latin America** has been an active and committed player in promoting energy efficiency and emissions reduction measures in regional maritime transport. In this new phase, the goal is to consolidate the center's work as a technical and strategic bridge between maritime administrations, industry, academia, and international organizations.

The workshop's objectives were presented as part of a roadmap aimed at:

- Identifying the main technical, regulatory, and financial challenges facing Latin American countries in advancing the decarbonization of the sector.
- Promoting viable, sustainable technological solutions adapted to the regional context.
- Encouraging the creation of synergies between public and private stakeholders.
- Facilitating the exchange of successful experiences and applicable case studies.
- Establish a foundation for building lasting alliances, including promoting a **Regional Industry Alliance in Latin America (RIALA)**.

Representatives from **MTCC Latin America** also presented some of the activities planned for the near future, as part of the center's work plan, and invited all participants to actively participate in regional cooperation initiatives.



*Keynote Speaker 6*

Ervin Vargas Wilson is a Nautical Engineer graduated from the Panama Nautical School, with more than 20 years of experience in the maritime industry. He has held positions as Chief Engineer on merchant ships and Technical Superintendent in national and international shipping companies. He holds postgraduate studies in Higher Education, Naval Construction, and Ship Repair, as well as a Diploma in Tugboat Engineering. He has participated in specialized International Maritime Organization (IMO) courses on energy efficiency in ship operations.



*Keynote Speaker 6*

Javier Díaz is a Project Manager at the Maritime Technology Cooperation Center for Latin America (**MTCC Latin America**) and a PhD candidate. He also teaches at the International Maritime University of Panama (**UMIP**). His expertise focuses on energy efficiency, marine propulsion, sustainability, and maritime safety. He has actively participated in projects and workshops related to biofouling management and energy efficiency technologies in the maritime sector.

This session served as a conceptual and operational starting point for the workshop, providing attendees with a clear understanding of the event's purpose and its strategic relevance for capacity building in the region.



### 3.3 SESSION 1: Panel Discussion - Implementation of technical measures by Latin American MARAD to reduce GHG emissions

The first technical session of the Regional Workshop was dedicated to highlighting the progress, approaches, and strategies being adopted by Latin American maritime administrations to address the challenges posed by the sector's decarbonization. This session was moderated by **Eng. Ervin Vargas**, Director of **MTCC Latin America**, and included representatives from Chile, Colombia, Panama, and Uruguay, who presented specific cases, institutional frameworks, and national experiences related to greenhouse gas (GHG) reduction.

The purpose of the session was to strengthen regional dialogue on public policies applied to the maritime sector, identify best practices and opportunities for collaboration between administrations, and highlight Latin America's active role in implementing the goals set by the **International Maritime Organization (IMO)** in its **Revised Strategy 2023**.

The panelists for this session were:

- **Jorge de la Fuente** – DIRECTEMAR, Chile:



*Keynote Speaker 7*

A Lieutenant Captain in the Chilean Navy, he currently serves in the Maritime Inspection Service of the Directorate of Maritime Safety and Operations (DIRSOMAR). He specializes in energy efficiency and decarbonization of maritime transport, areas in which he advises the Chilean Ministry of Foreign Affairs. In 2023, he obtained a Master of Science in Maritime Affairs with a specialization in Maritime Energy Management from the World Maritime University, presenting a thesis on the implementation of energy efficiency regulations in the Chilean coastal fleet.

- **Marco Olier Mendoza** – DIMAR, Colombia:



*Keynote Speaker 8*

A retired Captain of the Colombian Navy, he currently works in the Comprehensive Maritime and Port Security Area of the General Maritime Directorate (DIMAR). He has extensive experience in maritime and port security, having participated in risk analyses at key ports such as Cartagena de Indias.

- **Rina Berrocal** – AMP, Panamá



*Keynote Speaker 9*

Rina Berrocal is a Nautical Engineer with a distinguished career in the maritime field, she currently serves as Deputy Director General of the Merchant Marine Directorate at the Panama Maritime

Authority (AMP). She has held key positions such as Chief of Operations, Deputy Chief, and Senior Technical Officer at Segumar Panama, in addition to having served as General Manager of an Organization Recognized by Panama. She is a certified trainer for the Maritime Labour Convention (MLC 2006).

- **Bettina Alejandra Santana Botello** – Prefectura Naval del Uruguay



*Keynote Speaker 10*

Lieutenant (CP) in the National Naval Prefecture of Uruguay. He obtained first place in a training course held between May and August 2023.

Each presentation addressed both the institutional framework of the represented country and the concrete measures being taken to improve the energy efficiency of maritime transport and reduce its environmental impact.

Among the topics presented were:

- The development of **National Roadmaps for Maritime Decarbonization**, aimed at integrating new fuels, clean technologies, and emissions monitoring and reporting systems.
- Pilot initiatives for the use of **Renewable Energy in Ports**, as well as shore-based electricity supply systems (cold ironing) for vessels in port operations.
- **Technical training programs** for seafarers, surveyors, crews, and port personnel, aligned with new international regulatory requirements.
- Advances in the design of **financial and fiscal instruments** that incentivize the use of clean technologies in local vessels and merchant fleets.
- Inter-institutional collaborations with universities, research centers, and multilateral organizations for the design of environmental and operational assessment tools.



The session also served as a space for reflection on the main obstacles countries face in the effective implementation of these measures. Discussions included the **limited availability of resources**, the need for greater **regional regulatory harmonization**, and the urgency of **strengthening access to climate finance** to support investments in infrastructure and fleet modernization.

During the question-and-answer session with attendees, the political and technical will of the administrations to advance this agenda was highlighted, as well as the need to continue generating synergies between countries, with the support of organizations such as the **IMO**, the **MTCC Latin America**, and international cooperation agencies.

The session concluded with a joint call to consolidate a long-term regional vision, where innovation, ongoing training, and joint action are the pillars for a fair, effective, and sustainable energy transition in the Latin American maritime sector.

### 3.3.1 Perceptions Collected – Evaluation of Session 1

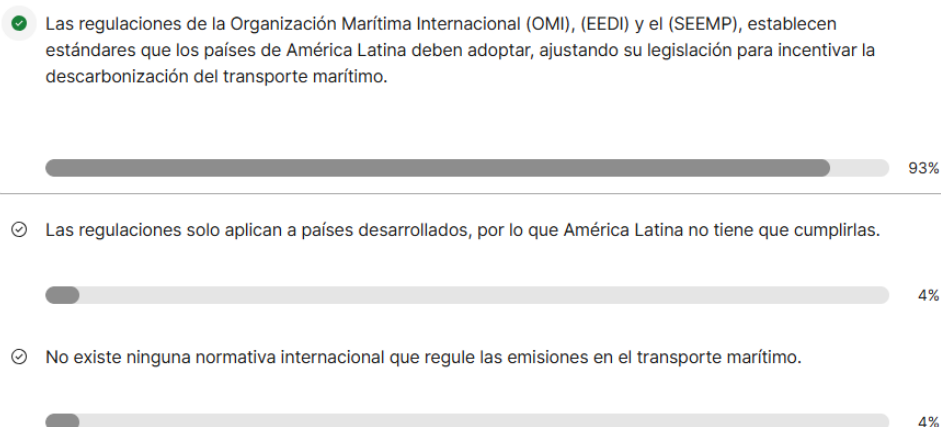
During the workshop, evaluation surveys were administered to gather participants' opinions regarding the content, the clarity of the speakers, the relevance of the topics covered, and the applicability of what was learned. Below are the sections designated for the specific results for each session, which will be supplemented with graphics and images once the analysis of the responses is complete.

The results are expected to reflect a positive assessment of the regional representativeness, the technical clarity of the presentations, and the practical focus of the experiences shared by maritime authorities.

Preliminary assessments suggest a high level of interest in the topics covered, especially given the participation of technical stakeholders with extensive international experience. Evidence of a favorable perception of the applicability of these technologies in the region is expected.

#### *Results of the question asked in Session 1*

¿Cómo influye la normativa internacional en la implementación de medidas técnicas en América Latina?



### 3.4 SESSION 2 – Use of sustainable alternative marine fuels – experiences and lessons learned

The second session of the Regional Workshop focused on one of the fundamental pillars of the energy transition in maritime transport: the use of sustainable alternative fuels. This technical session aimed to present real-life experiences and lessons learned in the implementation of low- and zero-carbon fuels, exploring both technological advances and the structural barriers facing the sector.

The session was moderated by **Martin Rousseaux** and featured representatives from leading maritime classification and technical certification societies, recognized internationally for their leadership in the research and validation of new technologies:



*Keynote Speaker 11*

A Naval and Mechanical Engineer with extensive experience in the maritime industry, he is the founder and General Manager of his own company, specializing in providing comprehensive solutions for energy efficiency management in the shipping sector. His services range from the implementation of international regulations on marine pollution to the development of carbon intensity reduction plans for vessels. He has also participated as a moderator at relevant industry events, such as the 2022 Naval Industry Meeting (EINAVAL).

- **Edilberto Peralta** – *Lloyd's Register*



MTCC LATIN AMERICA  
Maritime Technology Cooperation Centre

**Edilberto Peralta**  
COMERCIAL MANAGER  
CANADA & NORTH AMERICA'S  
GREAT LAKES REGION  
LLOYD'S REGISTER

Lloyd's Register

► TALLER REGIONAL

*Keynote Speaker 12*

Nautical Engineer with over 23 years of experience in the maritime sector, both in operations at sea and in land-based roles. He currently serves as Commercial Manager Canada & North America's Great Lakes Region at Lloyd's Register, where he leads regulatory policy management and maintains strategic relationships with government entities and key industry players. Previously, he held the position of Service Delivery Manager for the Central and South America region, overseeing operational teams and strengthening ties with regional clients and partners.

- **José Chong** – *Bureau Veritas (BV)*



MTCC LATIN AMERICA  
Maritime Technology Cooperation Centre

**José Chong**  
SSQM / CSQM  
GERENTE REGIONAL DE  
OPERACIONES MARINA PARA  
LATINOAMERICA NORTE  
BUREAU VERITAS PANAMA S.A. -  
VB

BUREAU VERITAS

► TALLER REGIONAL

*Keynote Speaker 13*

José Aurelio Chong is the Regional Operations Manager for the Marine Division for North Latin America at Bureau Veritas Panama S.A., a position he has held since January 1994. With more than three decades of experience in the maritime industry, he has led regulatory policy management and maintained strategic relationships with government entities and key industry players. He has also



participated in the certification of quality management systems, such as the one awarded to the General Directorate of Seafarers of the Panama Maritime Authority.

- **Stefano Morello** – *ClassNK*



*Keynote Speaker 14*

Stefano Morello is a Nautical Engineer specializing in Naval Machinery and a graduate of the Panama Nautical School. With over 23 years of experience in the maritime sector. He subsequently worked as Ship Repair Manager at the Braswell Shipyard in Panama. Since March 2006, he has been with ClassNK, where he has held various roles and currently serves as General Manager of the Panama Regional Office. He is also a Principal Marine Surveyor, a Maritime Management Systems Auditor (ISM & ISPS), and a Maritime Labour Convention (MLC) Surveyor. Each panelist provided complementary insights into the various energy alternatives currently under evaluation or use, such as hydrogen, ammonia, liquefied natural gas (LNG), methanol, and hybrid technologies, including electric propulsion solutions and renewable energy-based systems.

### Main Topics Covered

- **Global trends in the development of alternative marine fuels**, with an emphasis on the role of applied research, regulatory developments, and market signals.
- **Technical and safety requirements** associated with the use of new fuels, especially those requiring specialized handling or complex storage conditions.
- **Challenges in technology adoption in developing countries**, including port infrastructure limitations, technical personnel training, and local availability of alternative fuels.
- **Comparative environmental impact analysis**, highlighting the lifecycle emissions (well-to-wake) and the criteria for defining whether a fuel can be considered truly sustainable.
- **Experiences in international collaboration**, both in pilot projects and in technology validation frameworks promoted by classification societies.

The speakers emphasized that there is no single energy solution for the maritime sector; rather, the path to decarbonization must consider **multiple technological pathways adapted to the operational, geographic, and economic** realities of each country or region. In this regard, it was emphasized that what may be viable in the Global North is not necessarily replicable in Latin America, which is why it is necessary to promote **applied local research**, public-private partnerships, and differentiated policies that consider the regional context.

During the Q&A and discussion period, participants raised concerns related to the **certification of new technologies**, the need to **establish flexible yet robust regulatory frameworks**, and the steps necessary to ensure that the energy transition does not increase technological inequality between regions.

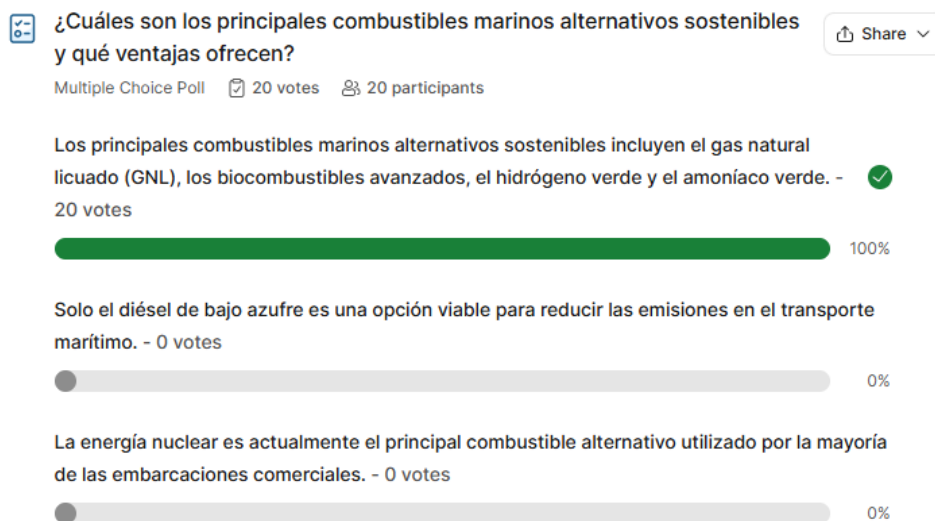
The session closed with a consensus among panelists and the audience on the urgency of continuing to foster dialogue between industry, regulators, and research centers to accelerate the adoption of sustainable alternative fuels, and on the importance of Latin America developing its own capabilities to lead this transition from a fair, inclusive, and technically sound perspective.

### 3.4.1 Perceptions Collected – Evaluation of Session 2

During the workshop, evaluation surveys were administered to gather participants' opinions regarding the content, the clarity of the speakers, the relevance of the topics covered, and the applicability of what was learned. Below are the sections dedicated to the specific results for each session, which will be supplemented with graphics and images once the analysis of the responses is complete.

Preliminary assessments suggest a high level of interest in the topics covered, especially given the participation of technical stakeholders with extensive international experience. Evidence of a favorable perception of the applicability of these technologies in the region is expected.

#### *Results of the question asked in Session 2*



### 3.5 Session 3: Practical Session – Decarbonization in action

The third session of the workshop was practical and focused on presenting applied methodologies, indicators, technological tools, and case studies related to maritime decarbonization in Latin America. This session was moderated by **Beatriz González**, Decarbonization Officer of the Panama Canal Authority (ACP), and brought together technical experts who have actively worked on projects aimed at energy efficiency and emissions reduction in the region.



*Keynote Speaker 16*

#### Keynote Speakers:

**Gabriel Fuentes** – *NHH NORWEGIAN SCHOOL OF ECONOMICS*



*Keynote Speaker 17*



Gabriel Fuentes-Lezcano is an Assistant Professor of Shipping Economics and Analytics in the Department of Business and Management at the Norwegian School of Economics. He holds a PhD in Business and Management from the same institution, a Master's degree in Supply Chain Engineering from the Georgia Institute of Technology, and a Master's degree in Maritime Affairs with a specialization in Shipping Management and Logistics from the World Maritime University.

**Rafael Orjuela – IRCA**



*Keynote Speaker 18*

Rafael Orjuela holds a Master's degree in Management of Integrated Systems for Occupational Risk Prevention, Quality, Environment, and Corporate Social Responsibility from the International University of La Rioja (UNIR). He is a specialist in Environmental Management Systems from the Externado University of Colombia and an Electromechanical Engineer from the University of La Salle. He has more than 20 years of experience as an International Lead Auditor accredited by IRCA for standards such as ISO 9001, ISO 14001, ISO 45001, and ISO 50001.

During the session, practical tools such as the **Green Maritime Corridors Dashboard**, the use of **statistical sustainability indicators**, and **energy project formulation and evaluation models** applicable to the maritime sector were presented. The speakers also shared experiences with technological solutions available for implementing energy efficiency measures on different types of vessels. In addition, interaction with participants was fostered through questions, case study analysis, and working groups that allowed for the exploration of common challenges and the proposal of possible solutions tailored to the regional context. The role of women in the management of decarbonization projects and their participation in technological transformation initiatives were also addressed.

The results of this session strengthened the collective understanding of the different methodologies and approaches that can be implemented in Latin America to advance emissions reduction in maritime transport.

### 3.5.1 Perceptions Collected – Evaluation of Session 3

During the workshop, evaluation surveys were administered to gather participants' opinions regarding the content, the clarity of the speakers, the relevance of the topics covered, and the applicability of what was learned. Below are the sections dedicated to the specific results for each session, which will be supplemented with graphics and images once the analysis of the responses is complete.

This session was highly participating. Evaluations will focus on the usefulness of the materials presented and the level of interaction achieved among attendees. A good level of satisfaction is expected regarding the practical approach and direct applicability.



*Images from the Practical Session on CII Calculations and Energy Efficiency Measurements*

## 3.6 Session 4: Visit to the Panama Canal Locks

As part of the practical component of the workshop, a technical visit was conducted to the **Panama Canal** facilities, one of the most important maritime infrastructures in the world.

During the visit, participants had the opportunity to tour the operational areas and learn firsthand about the logistical, technological, and environmental processes involved in the canal's operation. The main advances that the **Panama Canal Authority (ACP)** has implemented in terms of sustainability, energy efficiency, and emissions reduction in port and vessel transit operations were presented.

This visit allowed attendees to complement the theoretical knowledge acquired in the workshop with direct experience in a real maritime management environment, facilitating an understanding of applied best practices and the challenges faced by key infrastructures in the region.

### 3.6.1 Decarbonization Measures implemented by the Panama Canal

As part of the workshop's technical content, a special presentation was given by the **Panama Canal Authority (ACP)**, presented by **Estela Luck**, a Sustainability Manager at the institution. The purpose of this presentation was to highlight the concrete actions the Panama Canal has taken in recent years to reduce its carbon footprint and promote more sustainable operating practices.

Among the topics discussed were:

- Implementation of **mechanisms for measuring and monitoring emissions** associated with canal transits.
- Development of **eco-tariff tools and incentives for efficient vessels**.
- Planning investments in low-carbon infrastructure.
- Active participation of the canal in international forums on **green maritime corridors** and collaboration with other key ports.
- Energy transition strategies in its logistics and administrative operations.





*Keynote Speaker 19*

### **Estela del Carmen Luck Archbold – Panama Canal de Authority (ACP)**

Estela del Carmen Luck Archbold is the Sustainability Manager for the Panama Canal Authority (ACP). She holds a Master's degree in Sustainable Development and an MBA in Marketing and Business Leadership. In her current role, she leads initiatives focused on balancing human well-being, planetary protection, and economic prosperity. Under her leadership, the Panama Canal has set a goal of achieving carbon neutrality by 2050. She has also participated as a speaker in international forums, such as the International Gas and Energy Forum (IGEF), where she shared the energy opportunities of the Panama Canal.

The session concluded with a round of questions and feedback, highlighting the value of the Panama Canal as an example of maritime infrastructure in transformation, whose focus on sustainability can serve as a model for other port and maritime authorities in the region.

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### 3.7 Session 5: Promoting gender equality towards maritime decarbonization in Latin America

The fifth session of the workshop was dedicated to a cross-cutting and fundamental issue for maritime sustainability: gender equality within the framework of the sector's decarbonization. This roundtable brought together representatives of key organizations that promote the active and equal participation of women in the maritime industry and in energy transition processes.

#### Moderator:

- **Aricel Arauz – MTCC Latin America**



*Keynote Speaker 20*

Aricel Araúz holds a degree in Maritime and Port Management from the International Maritime University of Panama (UMIP). She currently works as an Administrative Assistant at the Maritime Technology Cooperation Centre for Latin America (**MTCC Latin America**). She has specialized training in Inventory of Hazardous Materials (IHM) from Syndeseas Integrated Solutions Ltd. She also holds a postgraduate degree in Higher Education with an emphasis on Maritime Instruction and Skills.

**Keynote Speakers:**

- **Aneth Pitterson** – *VT Shipping International Inc.*


*Keynote Speaker 21*

Aneth Pitterson is the Safety, Health, Environment, and Quality (SHEQ) Manager at VT Shipping International, with over 12 years of experience in the maritime sector, particularly in the bunker industry. She holds an MBA in Maritime Management and Bunker Operations, and a specialization in Energy and Environmental Efficiency in Maritime Environments. Since 2008, she has been a professor at the International Maritime University of Panama (UMIP).

- **Roxana Ortega** – *WISTA Panamá*


*Keynote Speaker 22*



Roxana Ortega is the Secretary of the Women in Maritime Trade and Industry Association of Panama (WISTA Panama), where she actively contributes to strengthening and promoting female participation in the maritime sector. She also serves as Senior Project and Infrastructure Manager at Panama Ports Company, contributing her experience in the management and development of key port projects for the region. Her commitment to the advancement of the sector has led her to join the Ports Committee of WISTA International, collaborating with professionals from various countries to address challenges and opportunities in the global port industry.

- **Laura Rodríguez** – *Red MAMLa*



*Keynote Speaker 23*

Laura Valeria Rodríguez Burlada is Chief Warden of the Argentine Naval Prefecture and currently serves as Vice President of the Network of Women of Maritime Authorities of Latin America (Red MAMLa), in addition to being Argentina's Permanent Representative to the organization. In her role, she has actively worked to promote gender equality and expand job opportunities for women in the maritime sector. She has participated in strategic meetings with organizations such as WISTA Argentina to strengthen inter-institutional cooperation on issues of equity and inclusion in the maritime industry.

During the session, the persistent challenges faced by women in accessing, maintaining, and leading positions within the sector were addressed, as well as the need to include a gender perspective in the planning and execution of sustainable projects. The panelists shared experiences, statistics, and testimonials related to their careers, highlighting initiatives for empowerment, technical training, and the creation of collaborative networks among women professionals in the maritime field.

It was emphasized that a just energy transition must not only be technologically and environmentally sound, but also **inclusive and socially equitable**, and that promoting female leadership is essential to achieving the Sustainable Development Goals (SDGs), particularly **SDG 5 (gender equality)** and **SDG 13 (climate action)**.

### Among the topics highlighted during the session:

- Mentoring programs, technical training, and women's empowerment in maritime careers.
- The gender gap in decision-making positions within the sector.
- Initiatives such as **WISTA**, the **Red MAMLa**, and other regional forums that highlight and strengthen the role of women in maritime sustainability.
- Proposals to include gender indicators in decarbonization projects.
- Calls to action for states, industry, and international organizations to promote policies that guarantee greater equity in access to opportunities in the maritime sector.

The session concluded with an exchange of proposals to promote public policies and institutional strategies that guarantee gender equity at all levels of the maritime sector. The need to integrate the gender dimension into sustainable project planning was reaffirmed, not as a complement, but as an essential component for achieving a structural and inclusive transformation of the maritime sector in Latin America.

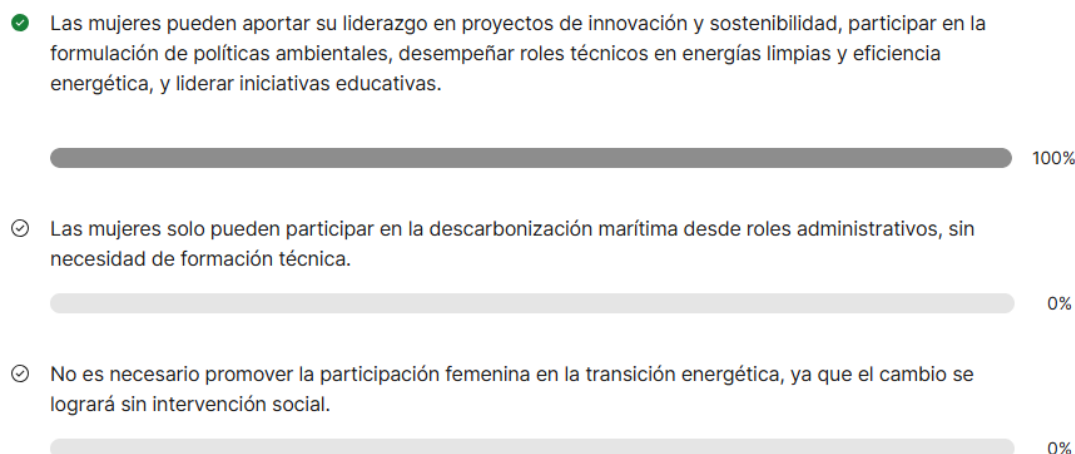
### 3.7.1 Perceptions Collected – Evaluation of Session 5

During the workshop, evaluation surveys were administered to gather participants' opinions regarding the content, the clarity of the speakers, the relevance of the topics covered, and the applicability of what was learned. Below are the sections designated for the specific results for each session, which will be supplemented with graphics and images once the analysis of the responses is complete.

A strong positive assessment of this session is anticipated. The responses will identify the impact of the panel on reflection on gender and inclusion. Key opinions highlighting the importance of maintaining these types of spaces will be included.

#### *Results of the question asked in the Session 5*

¿Cómo pueden las mujeres desempeñar un papel clave en la transición hacia una industria marítima más sostenible?



### 3.8 Session 6: Panel Discussion - Role of Financing Institutions and the Banking Sector in Supporting Maritime Decarbonization Projects

The sixth session of the Regional Workshop was dedicated to one of the most critical pillars for the viability of any energy transition process: the financing of decarbonization projects in the maritime sector. This panel brought together representatives from multilateral financial institutions and the banking sector, who shared visions, opportunities, challenges, and concrete mechanisms for promoting sustainable investments in Latin America.

#### Moderator:

- **Beatriz Castillo**



*Keynote Speaker 24*

Beatriz Castillo Rodríguez has over 20 years of experience in the banking sector, having held positions in Corporate and Commercial Banking, as well as Vice President of Credit, at national and international banks. She currently serves as Senior Business Officer at Banco Internacional de Costa Rica (BICSA). She holds a Bachelor's degree in Finance and Banking from the University of Panama and a postgraduate degree in Senior Management and a Master's degree in Business Administration with an emphasis on Strategic Management from the Interamerican University of Panama. She has also completed her training with diplomas in the Shipping Agency and Transformational Leadership.



**Keynote Speakers:**

- **Agustina Calatayud** – *Inter-American Development Bank (IDB)*

*Keynote Speaker 25*

Agustina Calatayud is a Lead Transportation Specialist in the Transportation Division of the Inter-American Development Bank (IDB). Her work focuses on applied research, investment loan structuring, and technical advice to improve transportation systems in Latin America and the Caribbean.

- **Carla Chízmar** – **CIFI**

*Keynote Speaker 26*

Carla Chízmar is the Director of the Environmental, Social and Governance (ESG) Department at **CIFI – Corporación Interamericana para el Financiamiento de Infraestructura, S.A.**, leading the development and implementation of ESG strategies aligned with the business plan of She holds a Bachelor's degree in Biology, specializing in botany, from the University of Panama, a Master's degree in Environmental Sciences from Yale University, and a certification in Clean Energy Finance and Deployment from a joint program of the Yale School of the Environment and the Yale School of Management.

- **Fausto Arroyo – CAF**



*Keynote Speaker 27*

Fausto Arroyo Crejo is a Senior Executive in the Regional Integration Directorate of CAF, the Development Bank of Latin America and the Caribbean. With a background in engineering and business management, he has more than 25 years of experience in the sector, specializing in ports, waterways, and logistics. In his current role, Arroyo has actively participated in initiatives that promote sustainability in maritime and port transport. For example, in July 2024, he represented CAF at the Regional Workshop.

- **Alexandra Aguilar** – *UN Global Compact*



*Keynote Speaker 28*

Alexandra Aguilar del Valle is a sustainability professional with experience implementing and overseeing environmental, social, and governance (ESG) strategies to address complex challenges. She is known for her proactive approach and dedication.

During the session, the focus was on how financial institutions can become **enablers of climate change**, not only as capital providers but also as strategic allies in identifying, structuring, and evaluating projects that contribute to reducing emissions in maritime transport.

#### Key topics addressed during the panel:

- The growing importance of **aligning financial flows with international climate goals**, especially the Paris Agreement and the IMO Strategy guidelines.
- Presentation of **green financial products**, credit lines, and blended finance schemes to support clean technologies, energy efficiency, fleet modernization, and port infrastructure improvements.
- The role of regional banks in **mobilizing local capital** and building trust for public-private co-investments.
- Discussion of the **main environmental and financial eligibility criteria** for a project to be considered "bankable" from a sustainability perspective.
- The need to **strengthen the institutional capacities** of maritime administrations and companies in the sector to structure technically viable and financially sound proposals.

The speakers agreed that **decarbonization is not only a technological challenge**, but also a challenge of accessing adequate financing, at the right time, and under conditions that consider the economic realities of the region. In this regard, emphasis was placed on the importance of promoting regulatory



frameworks that enable sustainable investment and creating regulatory incentives for more maritime companies to adopt clean technologies.

It was also highlighted that financial institutions have an active role in **assessing climate risks**, both physical and transitional, which implies incorporating environmental sustainability analysis tools into traditional credit risk assessment processes.

During the discussion group, real-life cases of financing for green port projects, pilot initiatives in on-board energy efficiency, and barriers faced by SMEs in the maritime sector in accessing climate financing were discussed, especially in contexts of low formalization or lack of collateral.

Finally, the panel concluded with a call to consolidate more inclusive and **accessible financial ecosystems** where maritime decarbonization projects can find technical support, strategic structuring, and access to patient capital. It was reaffirmed that without a robust financial environment aligned with climate goals, the sector's energy transition will be difficult to advance at the necessary pace and scale.

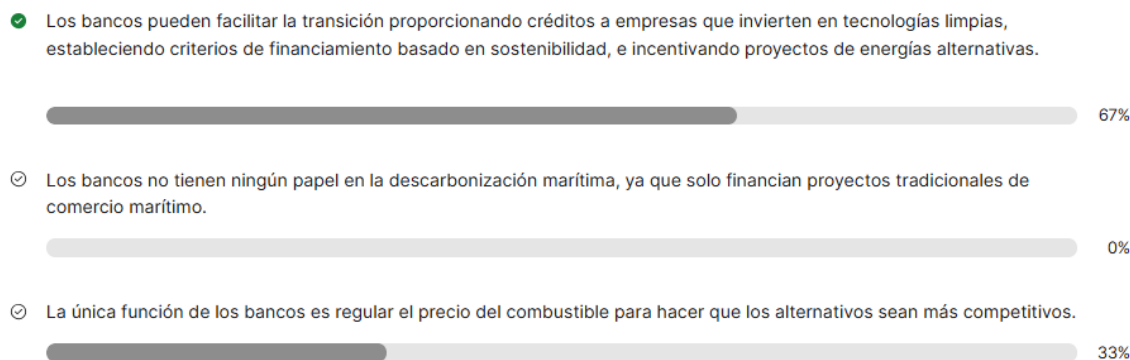
### 3.8.1 Perceptions Collected – Evaluation of Session 6

During the workshop, evaluation surveys were administered to gather participants' opinions regarding the content, the clarity of the speakers, the relevance of the topics covered, and the applicability of what was learned. Below are the sections dedicated to the specific results for each session, which will be supplemented with graphs and images once the analysis of the responses is complete.

Given the technical and strategic focus of this session, the survey results will show how the clarity of the content, the applicability of the financial instruments presented, and the level of understanding achieved by participants were perceived.

#### *Results of the question asked in Session 6*

¿Qué rol juegan los bancos y las instituciones financieras en la transición hacia una industria marítima más sostenible?



### 3.9 Session 7: Regional Industry Alliance in Latin America

The final session of the workshop focused on one of the strategic objectives of the GMN Phase II Project: **promoting a collaborative Regional Alliance between Industrial players in the Maritime sector** to accelerate decarbonization in Latin America. This panel, moderated by **Javier Díaz**, brought together representatives from leading companies, industry associations, certification bodies, and logistics platforms currently promoting sustainable initiatives in the region.

**Moderator:**

- **Javier Díaz**

**Keynote Speaker:**

- **Alexis X. Rodríguez** – A.P. Moller - Maersk



*Keynote Speaker 29*

Alexis Xavier Rodríguez is the Regional Head of Energy Transition Execution for Latin America at A.P. Moller - Maersk. In this role, he leads the regional implementation of Maersk's global ambition to support its customers' emissions reduction targets and deliver on the company's commitment to achieving carbon neutrality by 2040.

- **José Digeronimo** – *Panama Chamber of Shipping*



*Keynote Speaker 30*

José Digeronimo is the president of the Panama Chamber of Shipping (CMP) for the 2024-2025 term, having assumed the position in July 2024. He previously served as president of the CMP from 2011 to 2012. In addition to his role at the CMP, Digeronimo is director and CEO of Carefree Boatclub.

- **Silvia Marucci** – *PROPANAMA*



*Keynote Speaker 31*

Silvia Fernández de Marucci is the Director of International Promotion at PROPANAMA, Panama's investment and export promotion agency. In this role, she leads initiatives to attract foreign investment and promote Panamanian exports in international markets.



- **Drake Lisa – SGS**



*Keynote Speaker 32*

Lisa Drake is the Marine Services Manager for the Americas at SGS, the world's leading testing, inspection, and certification company. In her role, she leads marine environmental services at more than 600 ports worldwide, focusing on sustainable solutions for the maritime industry.

**Sergio Jaramillo – FLOPEC**



*Keynote Speaker 33*

Sergio Jaramillo Delgado is the Head of Maritime Contingency and Certification, as well as the Company Security Officer (CSO) for the Ecuadorian Petroleum Fleet (EP FLOPEC). In this role, he is responsible for managing maritime contingencies and ensuring the company complies with international maritime safety and security regulations.

The panel began with a presentation of the conceptual and operational foundations necessary to form an effective Regional Alliance, highlighting the importance of creating a **multi-sector coordination platform** that articulates efforts between the private sector, public administrations, technology centers, and international organizations.

- The panelists offered their perspectives on the viability and relevance of this alliance, highlighting topics such as:
- The **need for a common decarbonization agenda** from the perspective of the industrial and logistics sectors.
- The promotion of **public-private synergies** to drive technological innovation projects, improve energy efficiency, and access to green financing.
- The value of **having permanent spaces for dialogue**, building trust, and defining shared strategic priorities.
- The importance of generating **harmonized technical tools, guides, and regulatory frameworks** that allow the industry to implement concrete measures.
- The identification of **key sectors**, such as port infrastructure, the supply chain, the naval industry, and maritime services, as entry points for regional cooperation.



One of the most valued aspects of the panel was the recognition that the **industry's commitment should not be passive or reactive**, but **proactive and strategic**, with the ability to mobilize resources, generate green jobs, provide technological solutions, and lead transformation processes at scale.

During the Q&A session, the potential governance structure of **RIALA**, its initial funding mechanism, and the priorities it should address were discussed: from knowledge transfer to the development of shared digital platforms for emissions monitoring and reporting.

The session concluded with unanimous support for the initiative and the proposal to continue its development in technical roundtables led by **MTCC Latin America**, with the goal of formalizing its design and operational structure over the coming months.

### 3.9.1 Perceptions Collected – Evaluation of Session 7

During the workshop, evaluation surveys were administered to gather participants' opinions regarding the content, the clarity of the speakers, the relevance of the topics covered, and the applicability of what was learned. Below are the sections dedicated to specific results for each session, which will be supplemented with graphics and images once the analysis of the responses is complete.

This space generated discussion and proposals. The survey results are expected to capture participants' interest in moving forward with the initiative, as well as suggestions regarding its governance, structure, and priority areas of action.

#### *Results of the questions asked in Session 7*

¿Cuáles son los elementos clave para establecer una alianza regional colaborativa en la industria marítima de América Latina?

Los elementos clave incluyen una visión común entre los países y actores del sector, un marco regulatorio armonizado, mecanismos de financiamiento sostenible, intercambio de conocimientos y tecnología.

100%

La única condición necesaria es que los gobiernos acuerden la creación de la alianza sin necesidad de colaboración con el sector privado.

0%

No es necesario establecer reglas claras; cada país puede operar de manera independiente dentro de la alianza.

0%

¿Cuál debería ser la prioridad principal de una Alianza Regional de la Industria en América Latina (ARC)?

La prioridad debe ser el crecimiento económico sin considerar aspectos ambientales o sostenibles.

0%

La prioridad debe ser la promoción de la descarbonización y sostenibilidad del sector marítimo, asegurando el desarrollo de infraestructuras para combustibles alternativos, incentivando la modernización de la flota con tecnologías limpias.

100%

La alianza solo debe enfocarse en la reducción de costos para las empresas marítimas, sin considerar la descarbonización

0%



## 4 Participant Feedback

### 4.1 Workshop Summary

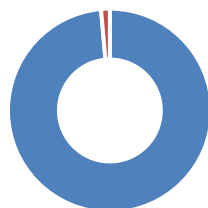
The **First Latin American Regional Workshop of the GMN Phase II Project** represented a milestone in capacity building and regional coordination around the decarbonization of maritime transport in Latin America. Over the course of two days, the workshop included technical sessions, panel discussions, inter-institutional dialogue, a practical session, a technical visit to the Panama Canal, and a segment dedicated to gender equity, which allowed the topic to be addressed from a comprehensive, multidisciplinary, and multisectoral perspective.

The workshop's main achievements included:

- The presentation of **concrete experiences from Maritime Administrations** in implementing technical measures for energy efficiency and emissions reduction.
- The exchange of **lessons learned on sustainable alternative marine fuels**, based on the perspective of classification societies with broad international reach.
- The presentation of **practical tools and project models** during the decarbonization in action session, fostering applied learning.
- **Collective reflection on gender equality**, emphasizing the need to integrate an equity perspective as a structural component of the energy transition.
- **A strategic discussion on climate finance**, highlighting the role that financial and banking institutions must play in facilitating the sector's transformation.
- Promotion of the initiative to establish the **Regional Maritime Industry Alliance (RIALA)** as a mechanism for technical cooperation and regional coordination among key stakeholders.

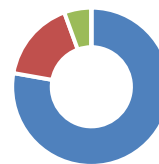
An evaluation and feedback survey were also conducted to gather participants' impressions of the content covered, the workshop dynamics, and opportunities for improvement for future editions.

Was the invitation for the Regional Workshop received in good time?



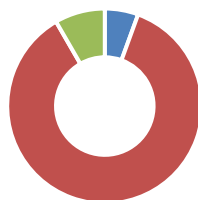
■ Yes ■ No

How would you rate the event in terms of its alignment with and delivery of the workshop programme?



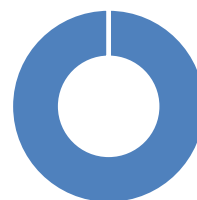
■ Excellent ■ Good ■ Satisfactory ■ Poor ■ Too Poor

Was the duration of the event sufficient to adequately cover all the topics?



■ Too long ■ Just right ■ Too short

Do you consider that the objective of the Regional Workshop was met?



■ Yes ■ No

Do you anticipate being able to share knowledge and skills gained from this course with your colleagues at work?



■ Yes ■ No

The workshop concluded with an institutional summary session, in which the **MTCC Latin America** team thanked all the delegations for their participation, reaffirmed its commitment as a regional center for technological cooperation, and presented the lines of work that will be promoted within the framework of the GMN Phase II Project, aligned with regional priorities and the mandates of the International Maritime Organization.

This session reaffirmed the importance of maintaining the momentum generated during the workshop, promoting the continuity of collaborative efforts toward **a cleaner, fairer, more resilient, and sustainable maritime industry in Latin America.**

## 5 Challenges

During the organization and implementation of the **First Latin America Regional Workshop of the GMN Phase II Project**, several challenges were identified that led to valuable lessons learned for the development of future events with regional and international scope. The main aspects observed are described below:

- **Multisectoral coordination prior to the event:** While a broad representation of key stakeholders in the maritime sector was achieved, a need was identified to strengthen mechanisms for convening and early coordination between maritime administrations, industry, academia, and technical institutions.
- **Homogeneity in the technical level of participants:** The different national realities regarding technologies, regulations, and institutional capacities revealed gaps in the level of knowledge regarding maritime decarbonization, reinforcing the need to continue promoting differentiated and specialized training spaces.
- **Logistics and simultaneous coordination of sessions:** As this event offered both in-person and virtual modalities, logistical and technical planning required additional efforts to ensure a smooth, synchronous, and high-quality experience for all attendees, both local and international.
- **Time management in panel discussions:** In some sessions, the dynamism of the presentations and audience interest limited the space available for questions and answers. This raises the possibility of restructuring the thematic sections or expanding the sessions in future editions.
- **Inclusion of key approaches across the board:** Although topics such as gender equity and technological innovation were highlighted in specific sessions, an opportunity was identified to integrate them more transversally throughout all discussions and presentations.

These challenges did not represent obstacles to the event's success but rather reflect the complexity and richness of a high-level regional meeting. Addressing them proactively will strengthen the organizational capacities of **MTCC Latin America** and its allies to continue leading spaces for reflection and action in favor of a just energy transition in the maritime sector.



## 6 Next steps

In line with the objectives of the GMN Phase II Project and the momentum generated by this First Regional Workshop, several priority actions were identified that must be addressed in the short and medium term to continue the maritime decarbonization process in Latin America:

**Strengthening technical capacities** in maritime administrations through specialized training and ongoing education in clean technologies, emissions monitoring, and international regulations.

**Consolidation of regional networks**, including the formal structuring of the Regional Maritime Industry Alliance (**RIALA**), as a permanent mechanism for cooperation between public, private, and academic stakeholders.

**Promotion of climate finance** with the support of development banks and financial institutions to support energy efficiency, fleet modernization, and green infrastructure projects.

**Deepening international partnerships**, especially with multilateral organizations and centers of excellence that contribute to the exchange of knowledge, best practices, and technology transfer.


**Incorporation of a gender perspective across the board**, ensuring that women's participation in energy transition is an integral part of the design and implementation of policies and projects.

These lines of action are expected to be taken up and expanded upon at subsequent regional meetings and serve as the basis for a shared roadmap to advance toward a sustainable, resilient, and inclusive maritime industry in Latin America.

## 7 Annexes


### 7.1 Regional Workshop Agenda

Day 1: Tuesday, March 18th, 2025		
Time	Session	Presenters
08:30 - 08:45	Arrival and registration	MTCC-LA
	<b>Official opening ceremony</b>	
09:00 – 09:05	Welcome remarks and general introductions	IMO – UMIP/MTCC-LA
09:10 – 09:15	Welcome and opening remarks	UMIP President – Víctor Luna
09:15 – 09:30	Greetings	AMP – Volney Guinard EU Ambassador in Panama – Izabela Matusz IMO – Carlos Salgado
09:35 – 09:45	<b>GROUP PHOTO</b>	
09:50 – 10: 15	<b>COFFEE BREAK</b>	
10:20 – 10:30	Introduction of the GMN Project Phase II	IMO PCU – Petra Ghassemi Ahari
10:35 – 10:45	The Role of the MTCC Latin America in the region, Workshop Objectives & Key activities	MTCC-LA – Ervin Vargas/ Javier Díaz
	<b>SESSION 1: PANEL DISCUSSION: IMPLEMENTATION OF TECHNICAL MEASURES BY THE LATIN AMERICA MARITIME ADMINISTRATIONS TO REDUCE GHG EMISSIONS</b>	Moderator: Ervin Vargas Panelists: <b>DIRECTEMAR - Chile</b> - Jorge de la Fuente <b>DIMAR - Colombia</b> - Marco Olier Mendoza <b>AMP - Panamá</b> - Rina Berrocal <b>Prefectura Naval de Uruguay</b> - Bettina Alejandra Santana Botello

10:50 – 11:55	<ul style="list-style-type: none"> <li>• Development of National Green Hydrogen Strategy</li> <li>• Challenges and barriers facing the implementation of Energy Efficiency Measures</li> <li>• Development of operational actions for the protection of the environment</li> <li>• Promotion of Energy Efficiency Technology in maritime</li> <li>• Q&amp;A</li> </ul>	<b>Expected Outcomes:</b>  Provided an overview of the initiatives developed by Latin America Administrations and their efforts to reduce GHG emissions
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12:00 - 13:00	LUNCH BREAK	
	<b>SESSION 2: USE OF SUSTAINABLE ALTERNATIVE MARINE FUELS- EXPERIENCES AND LESSONS LEARNED</b>	Moderator: Martin Rousseaux Edilberto Peralta, <b>Lloyd Register</b> Jose Chong, <b>BV</b> Stefano Morello, <b>ClassNK</b>
13:05 – 14:00	<ul style="list-style-type: none"> <li>• Hydrogen as a Marine Fuel and the Challenges of Decarbonization</li> <li>• Experience with Methanol as fuel on Merchant Ships</li> <li>• LNG as a Marine Fuel- Present and Perspective</li> <li>• Q&amp;A</li> </ul>	<b>Expected Outcomes:</b>  Identification of the challenges and opportunities on the use of alternative marine fuels
	<b>SESSION 3: PRACTICAL SESSION – DECARBONIZATION IN ACTION</b>	Moderator: Beatriz González Panelists: Gabriel Fuentes – <b>NHH</b> Javier Díaz – <b>MTCCLA</b> Ervin Vargas – <b>MTCC-LA</b> Rafael Orjuela – <b>IRCA</b> Martin Rousseaux – <b>Rousseaux</b>



14:05 – 15:00	<ul style="list-style-type: none"> <li>Challenges and opportunities</li> <li>Green shipping corridors initiatives</li> <li>Interaction with Maritime Statistics Efficiency and Sustainability Indicators</li> <li>Decarbonization Solutions Technologies to reduce fuel consumption in maritime</li> <li>Break – out groups / Case studies</li> </ul>	<b>Expected Outcomes:</b>  Understanding the various methodologies of decarbonization solutions that could be implemented within Latin America
15:05 – 15:25	COFFEE BREAK	
	<b>RESULTS OF THE PRACTICAL SESSION – GROUP PRESENTATION</b>	Moderator: Beatriz González
15:30 - 16:20	Presentations of the Break – out Groups / Case studies	
16:25 - 16:30	Summary of Day 1	MTCC-LA
End of conference day 1		

Day 2: Wednesday, March 19th in 2025		
08:00 - 08:10	Arrival and registration	Organizers
	<b>SESSION 4: FIELD VISIT TO THE MIRAFLORES LOCKS OF THE PANAMA CANAL</b>	<b>MTCC-LA / Panama Canal Authority</b>
08:15 - 08:30	Departure from UMIP Campus	
08:30 - 08:35	<ul style="list-style-type: none"> <li>Arrival at the Miraflores Visitor Center of the Panama Canal</li> </ul>	
08:40 - 10:00	<ul style="list-style-type: none"> <li>Tour to the Miraflores Visitors Center</li> </ul>	
10:00 - 10:25	<b>COFFEE BREAK</b>	
10:30 - 10:55	Arrival at UMIP Campus	
11:00 - 11:30	Measures implemented by Panama Canal to support Shipping Decarbonization	Estela Luck – <b>ACP</b>
11:35 - 11:55	<ul style="list-style-type: none"> <li>Question and Answer Session</li> <li>Feedback</li> <li>Summary of Session</li> </ul>	<b>Expected Outcomes:</b>  Understanding the measures implemented to decarbonized shipping that could be applied by Maritime Authorities, Ports and Canals
12:00 - 12:55	<b>LUNCH BREAK</b>	
	<b>SESSION 5: ROUNDTABLE – PROMOTING THE GENDER EQUALITY TOWARDS MARITIME DECARBONIZATION IN LATIN AMERICA</b>	Moderator: Aricel Arauz Panelists: Aneth Pitterson – <b>VT Shipping</b> Roxana Ortega – <b>WISTA Panama</b> Laura Rodríguez - <b>Red MAMLa</b>

13:00 – 14:00	<ul style="list-style-type: none"> <li>Current Gender Dynamics in the Maritime Industry</li> <li>The role of women in maritime decarbonization</li> <li>Capacity building and training</li> <li>Regional and stakeholder collaboration</li> </ul>	<b>Expected Outcomes:</b>  Understanding of gender gaps, opportunities and actionable strategies to increase women participation in Maritime Decarbonization initiatives as per SDG 5
	<b>SESSION 6: PANEL DISCUSSION – ROLE OF FINANCING INSTITUTIONS AND BANKING SECTOR TO SUPPORT THE MARITIME DECARBONIZATION PROJECTS</b>	Moderator: Beatriz Castillo Speakers: Agustina Calatayud – <b>IDB</b> Carla Chízmar – <b>CIFI</b> Fausto Arroyo – <b>CAF</b> Alexandra Aguilar – <b>UN Global Compact</b>
14:05 – 15:00	Financing Opportunities in the development of Sustainable Maritime Projects in Latin America <ul style="list-style-type: none"> <li>✓ Lessons learned</li> <li>✓ Challenges</li> <li>✓ Opportunities</li> </ul> Initiatives	<b>Expected Outcomes:</b>  Exploring opportunities for mobilizing finance at national and regional levels to support sustainable maritime decarbonization projects and initiatives
15:05 - 15:30	<b>COFFEE BREAK</b>	
	<b>SESSION 7: REGIONAL INDUSTRY ALLIANCE IN LATIN AMERICA (RIALA)</b>	Moderator: Javier Díaz Speakers: Alexis Rodríguez – <b>MAERSK</b> Jose Digeronimo – <b>Cámara Marítima de Panamá</b> Silvia Marucci – <b>PROPANAMA</b> Drake Lisa – <b>SGS</b> Sergio Jaramillo – <b>FLOPEC</b>



15:35 – 16:35	<ul style="list-style-type: none"> <li>• Groundwork for a collaborative regional alliance.</li> <li>• Industry perspective on establishment of a RIA</li> <li>• Stakeholders' engagement</li> <li>• What is expected from such a RIA?</li> <li>• What should be the priority of a RIA?</li> <li>• Public-Private Partnership</li> </ul>	<b>Expected Outcomes:</b>  Promoting a Pathway for a Regional Industry Alliance in Latin America
16:40 – 16:55	<b>FEEDBACK SESSION AND KNOWLEDGE ASSESSMENT – SURVEY</b>	MTCC-LA
17:00 – 17:30	<b>SUMMARY OF THE WORKSHOP</b>	MTCC-LA

## 7.2 Presentation of the Keynote Speakers

[To download the Keynote Speakers presentations, click here](#)

## 7.3 List of Participants

SPEAKERS					
N°	NAME	ADMINISTRATION		DETAIL	EMAIL
1	Victor Luna Barahona	Universidad Marítima Internacional de Panamá		Palabras de bienvenida	<a href="mailto:vluna@umip.ac.pa">vluna@umip.ac.pa</a>
2	Volney Guinard	Autoridad Marítima de Panamá		Palabras de bienvenida	<a href="mailto:vguinard@amp.gob.pa">vguinard@amp.gob.pa</a> ; <a href="mailto:secgen@amp.gob.pa">secgen@amp.gob.pa</a>
3	Izabela Matusz	Embajador de la Unión Europea en Panamá		Palabras de bienvenida	Kurt.LEISEDER@ec.europa.eu; Matteo.BANTI@ec.europa.eu; Pablo.MENDOZA-VILLAFUERTE@ec.europa.eu
4	Carlos Salgado	Organización Marítima Internacional		Palabras de bienvenida	<a href="mailto:CSalgado@imo.org">CSalgado@imo.org</a>
5	Petra Ghassemi Ahari	Organización Marítima Internacional		Resumen del Taller	<a href="mailto:pahari@imo.org">pahari@imo.org</a>
6	Javier Díaz	MTCC-Latin America		Moderador	<a href="mailto:jdiaz@umip.ac.pa">jdiaz@umip.ac.pa</a>
7	Arícel Araúz	MTCC-Latin America		Moderador	<a href="mailto:admin-mtcc@umip.ac.pa">admin-mtcc@umip.ac.pa</a>
8	Ervin Vargas	MTCC-Latin America		Moderador	<a href="mailto:evargas@umip.ac.pa">evargas@umip.ac.pa</a>
9	Jorge de la Fuente M.	DIRECTEMAR Chile		SESION I: PANEL DE DISCUSIÓN (MARTES 18)	<a href="mailto:jdelafuente077@gmail.com">jdelafuente077@gmail.com</a> <a href="mailto:jdelafuente@dgtn.cl">jdelafuente@dgtn.cl</a>
10	Marco Olier	DIMAR Colombia		SESION I: PANEL DE DISCUSIÓN (MARTES 18)	<a href="mailto:marcolier@hotmail.com">marcolier@hotmail.com</a> <a href="mailto:molier@dimar.mil.co">molier@dimar.mil.co</a>
11	Rina Berrocal	Autoridad Marítima de Panamá		SESION I: PANEL DE DISCUSIÓN (MARTES 18)	<a href="mailto:rberrocal@amp.gob.pa">rberrocal@amp.gob.pa</a>
12	Bettina Santana	Prefectura Nacional de Uruguay		SESION I: PANEL DE DISCUSIÓN (MARTES 18)	<a href="mailto:santanabettina@gmail.com">santanabettina@gmail.com</a>
13	Martin Rousseaux	ROUSSEAU Argentina		Moderador	<a href="mailto:martinr@rousseau.co">martinr@rousseau.co</a>
14	Edilberto Peralta	Lloyd's Register <b>VIRTUAL</b>		SESIÓN II: EXPERIENCIAS Y LECCIONES APRENDIDAS (MARTES 18)	<a href="mailto:edilberto.peralta@lr.org">edilberto.peralta@lr.org</a>
15	Stefano Morello	ClassNK		SESIÓN II: EXPERIENCIAS Y LECCIONES APRENDIDAS (MARTES 18)	<a href="mailto:ste-morell@classnk.or.jp">ste-morell@classnk.or.jp</a>
16	José Aurelio Chong	Bureau Veritas Panamá		SESIÓN II: EXPERIENCIAS Y LECCIONES APRENDIDAS (MARTES 18)	<a href="mailto:jose.chong@bureauveritas.com">jose.chong@bureauveritas.com</a>
17	Beatriz González	Autoridad del Canal de Panamá		Moderador	<a href="mailto:BYGonzalez@pancanal.com">BYGonzalez@pancanal.com</a>
18	Gabriel Fuentes	NHH <b>VIRTUAL</b>		SESIÓN III: SESIÓN PRÁCTICA	<a href="mailto:gabriel.fuentes@nhh.no">gabriel.fuentes@nhh.no</a>
19	Rafael Orjuela	Auditor Líder IRCA		SESIÓN III: SESIÓN PRÁCTICA	<a href="mailto:rafael.orjuela@gmail.com">rafael.orjuela@gmail.com</a>
20	Stela Luck	Autoridad del Canal de Panamá		SESIÓN I: MEDIDAS DE LA AUTORIDAD DEL CANAL DE PANAMÁ (MIÉRCOLES 19)	<a href="mailto:ELuck@pancanal.com">ELuck@pancanal.com</a>
21	Aneth Pitterson	VT Shipping International		SESIÓN V: MESA REDONDA (MIÉRCOLES 19)	<a href="mailto:apitterson@vtshipping.com">apitterson@vtshipping.com</a> ; <a href="mailto:apitterson@umip.ac.pa">apitterson@umip.ac.pa</a>
22	Elvia Bustavino	Wista Panamá		SESIÓN V: MESA REDONDA (MIÉRCOLES 19)	<a href="mailto:ebustavino@bustavinoandpartners.com">ebustavino@bustavinoandpartners.com</a>
23	Laura Valeria Rodríguez Burlada	Red MAMLa		SESIÓN V: MESA REDONDA (MIÉRCOLES 19)	<a href="mailto:pnar-coin@prefectura.naval.gov.ar">pnar-coin@prefectura.naval.gov.ar</a>
24	Beatriz Castillo	BICSA <b>Sector Bancario</b>		Moderador	<a href="mailto:beatrizc4@gmail.com">beatrizc4@gmail.com</a> ; <a href="mailto:beatrizc1977@gmail.com">beatrizc1977@gmail.com</a>
25	Agustina Calatayud	BID <b>Sector Bancario</b>		SESIÓN VI: PANEL DE DISCUSIÓN (MIÉRCOLES 19)	<a href="mailto:MCALATAYUD@iadb.org">MCALATAYUD@iadb.org</a>
26	Carla Chizmar	CIFI <b>Sector Bancario</b>		SESIÓN VI: PANEL DE DISCUSIÓN (MIÉRCOLES 19)	<a href="mailto:carla.chizmar@cifi.com">carla.chizmar@cifi.com</a>
27	Fausto Arroyo	CAF <b>Sector Bancario</b>		SESIÓN VI: PANEL DE DISCUSIÓN (MIÉRCOLES 19)	<a href="mailto:farroyo@caf.com">farroyo@caf.com</a>
28	Alexandra Aguilar	UN Global Compact Sector Bancario		SESIÓN VI: PANEL DE DISCUSIÓN (MIÉRCOLES 19)	<a href="mailto:alexandra.aguilar@unglobalcompact.org">alexandra.aguilar@unglobalcompact.org</a>
29	Alexis Rodríguez	Maersk		SESIÓN VII: ALIANZA REGIONAL DE LA INDUSTRIA (MIÉRCOLES 19)	<a href="mailto:alexis.rodriguez@maersk.com">alexis.rodriguez@maersk.com</a>
30	Ricardo Díaz	AES Panamá		SESIÓN VII: ALIANZA REGIONAL DE LA INDUSTRIA (MIÉRCOLES 19)	<a href="mailto:ricardo.diaz@aes.com">ricardo.diaz@aes.com</a>
31	José Digeronimo	Cámara Marítima de Panamá		SESIÓN VII: ALIANZA REGIONAL DE LA INDUSTRIA (MIÉRCOLES 19)	<a href="mailto:jdigeronimo@carefreeboats.com">jdigeronimo@carefreeboats.com</a> ; <a href="mailto:asistencia@camaramaritima.org.pa">asistencia@camaramaritima.org.pa</a> ; <a href="mailto:executive@camaramaritima.org.pa">executive@camaramaritima.org.pa</a> ; <a href="mailto:mercadeo@camaramaritima.org.pa">mercadeo@camaramaritima.org.pa</a>
32	Silvia Fernandez M.	PROPANAMA		SESIÓN VII: ALIANZA REGIONAL DE LA INDUSTRIA (MIÉRCOLES 19)	<a href="mailto:smarucci@propanama.gob.pa">smarucci@propanama.gob.pa</a> ; <a href="mailto:smarucci@gmail.com">smarucci@gmail.com</a>
33	Lisa Drake	SGS		SESIÓN VII: ALIANZA REGIONAL DE LA INDUSTRIA (MIÉRCOLES 19)	<a href="mailto:Lisa.Drake@sgs.com">Lisa.Drake@sgs.com</a>
34	Sergio Jaramillo	DPA / CSO Ecuador		SESIÓN VII: ALIANZA REGIONAL DE LA INDUSTRIA (MIÉRCOLES 19)	<a href="mailto:sjaramillo@flopec.com.ec">sjaramillo@flopec.com.ec</a>

N°	NAME	ADMINISTRATION	DETAIL
1	Enrique Mariano Franco	Peefectura Naval de Argentina	<a href="mailto:emarianofranco@gmail.com">emarianofranco@gmail.com</a> ; <a href="mailto:dpam-secretaria@prefectura naval.gov.ar">dpam-secretaria@prefectura naval.gov.ar</a>
2	Richarth Ivan Terceros Cespedes	Ministerio de Defensa de Bolivia	<a href="mailto:richarth.terceros@gmail.com">richarth.terceros@gmail.com</a>
3	Alejandra Mino Pérez	Secretaria de Marina de México	<a href="mailto:alemmino2@gmail.com">alemmino2@gmail.com</a> ; <a href="mailto:jinsmarnac@semar.gob.mx">jinsmarnac@semar.gob.mx</a>
4	Flavio Haruo Mathuiy	Brazil Navy	<a href="mailto:flaviomathuiy@uol.com.br">flaviomathuiy@uol.com.br</a> ; <a href="mailto:mathuiy@marinha.mil.br">mathuiy@marinha.mil.br</a>
5	Verny Gerardo Jimenez Rojas	Ministerio de Obras Públicas y Transporte, División Marítima y Portuaria Costa Rica	<a href="mailto:verny.jimenez@mopt.go.cr">verny.jimenez@mopt.go.cr</a>
6	José Jaramillo	Dirección Nacional de los Espacios Acuáticos Ecuador	<a href="mailto:jjaramillom12@gmail.com">jjaramillom12@gmail.com</a> ; <a href="mailto:jjaramillom@armada.mil.ec">jjaramillom@armada.mil.ec</a>
7	Jhon González	Dirección Nacional de los Espacios Acuáticos Ecuador	<a href="mailto:jgonzalezarmijos1993@gmail.com">jgonzalezarmijos1993@gmail.com</a> ; <a href="mailto:jgonzalez@armada.mil.ec">jgonzalez@armada.mil.ec</a>
8	Pablo Josué Solares Reyes	Dirección General de Asuntos Marítimos de Guatemala	<a href="mailto:prevencion.dgam@gmail.com">prevencion.dgam@gmail.com</a>
9	Ada María Stefany Barrientos	Dirección General de Asuntos Marítimos de Guatemala	<a href="mailto:adamariabb@escuelanaval.edu.gt">adamariabb@escuelanaval.edu.gt</a> ; <a href="mailto:barry9810@gmail.com">barry9810@gmail.com</a>
10	Natali Molina Moncada	Dirección General de Marina Mercante de Honduras	<a href="mailto:natalimolina92@gmail.com">natalimolina92@gmail.com</a> ; <a href="mailto:nmolina@marinamercante.gob.hn">nmolina@marinamercante.gob.hn</a>
11	Italo Bonilla Mejía	Dirección General de Marina Mercante de Honduras	<a href="mailto:ibonilla@marinamercante.gob.hn">ibonilla@marinamercante.gob.hn</a> ; <a href="mailto:italobonilla@gmail.com">italobonilla@gmail.com</a>
12	Manuel Jesús Aguilar	DICAPI Perú	<a href="mailto:maguilav02@gmail.com">maguilav02@gmail.com</a> ; <a href="mailto:aguil033@dicapi.mil.pe">aguil033@dicapi.mil.pe</a>
13	Jorge Tejeda	CUBA	<a href="mailto:jorgearieltejadagonzalez@gmail.com">jorgearieltejadagonzalez@gmail.com</a> ; <a href="mailto:tejeda.sm@amc.transnet.cu">tejeda.sm@amc.transnet.cu</a>
14	Deal Cantero	CUBA	<a href="mailto:daelcantero42@gmail.com">daelcantero42@gmail.com</a> director@apcfig.cu
15	Alexander de Gracia	Autoridad Marítima de Panamá	<a href="mailto:alexanderdegracia153@gmail.com">alexanderdegracia153@gmail.com</a> ; <a href="mailto:adegracia@amp.gob.pa">adegracia@amp.gob.pa</a>
16	Rolando Cuevas	Autoridad Marítima de Panamá	<a href="mailto:rcuevas060257@gmail.com">rcuevas060257@gmail.com</a> ; <a href="mailto:rcuevas@amp.gob.pa">rcuevas@amp.gob.pa</a>
17	Ibis Perez	Autoridad Marítima de Panamá	<a href="mailto:ibis.perez@amp.gob.pa">ibis.perez@amp.gob.pa</a>
18	Jonathan Guerini	Autoridad Marítima de Panamá	<a href="mailto:jguerini@amp.gob.pa">jguerini@amp.gob.pa</a>
19	Ana Grace Nuñez	Autoridad Marítima de Panamá	<a href="mailto:anunezc@amp.gob.pa">anunezc@amp.gob.pa</a>
20	Carmen Ruiz	Prefectura General Naval de Paraguay	<a href="mailto:carmlfari@gmail.com">carmlfari@gmail.com</a> ; <a href="mailto:asinter@armadapaguay.mil.py">asinter@armadapaguay.mil.py</a>
21	Hernán Bogado Ortiz	Prefectura General Naval de Paraguay	<a href="mailto:hbovy944@gmail.com">hbovy944@gmail.com</a> ; <a href="mailto:asinter@armadapaguay.mil.py">asinter@armadapaguay.mil.py</a>
22	Jesús Rafael Mercedes Caminero	Capitanía de Puerto y Autoridad Marítima de República Dominicana	<a href="mailto:jesusrafaelcaminero@gmail.com">jesusrafaelcaminero@gmail.com</a> ; <a href="mailto:dir.cdp@marina.mil.do">dir.cdp@marina.mil.do</a>
23	Otto Guillermo Noak	COCATRAM	<a href="mailto:ottonoack53@hotmail.com">ottonoack53@hotmail.com</a> ; <a href="mailto:onoack@cocatram.org.ni">onoack@cocatram.org.ni</a>
24	Jenny Isabel Maturana Cedeño	Red MAMLa	<a href="mailto:jenny_maturana@bordemaringeneria.cl">jenny_maturana@bordemaringeneria.cl</a> ; <a href="mailto:jmaturana@dgtm.cl">jmaturana@dgtm.cl</a>
25	Laura Valeria Rodríguez Burlada	Red MAMLa	<a href="mailto:asincor.rb@gmail.com">asincor.rb@gmail.com</a> ; <a href="mailto:pnar-coin@prefectura naval.gov.ar">pnar-coin@prefectura naval.gov.ar</a>
26	Cristian Martis Aravena	CPPS	<a href="mailto:cmartis1994@gmail.com">cmartis1994@gmail.com</a> ; <a href="mailto:cmartis@cpps-int.org">cmartis@cpps-int.org</a>
27	Suzzette Balkaran	MTCC Caribbean	<a href="mailto:Balkaran.suzzette@gmail.com">Balkaran.suzzette@gmail.com</a> ; <a href="mailto:suzzette.balkaran@utt.edu.it">suzzette.balkaran@utt.edu.it</a>
28	Carlos Rivas	PROCHILE	<a href="mailto:crivas@prochile.gob.cl">crivas@prochile.gob.cl</a>
29	José Alberto Rosas	ABL	<a href="mailto:jose.rosas@abl-group.com">jose.rosas@abl-group.com</a>
30	Angélica Sivera	Multibank <b>Sector Bancario</b>	<a href="mailto:angelica.sivera@multibank.com">angelica.sivera@multibank.com</a>
31	Ruben Spalding	PSA PANAMA (quiere participar)	Envió Correo <a href="mailto:Ruben.Spalding@globalpsa.com">Ruben.Spalding@globalpsa.com</a>

32	Silvina Uribe	Mitsubishi Corporation			silvina.uribe@mitsubishicorp.com
33	Cristian Greig Silva	DIRECTEMAR Chile			agregadopanama@gmail.com; cristiangreig@gmail.com;
34	Eladio Peñaloza	Consultor Externo			Eladio@ep-marine.com
35	Porfirio Padilla	Universidad Marítima Internacional de Panamá		Docente	ppadilla@umip.ac.pa
36	Ricardo Rodríguez	Universidad Marítima Internacional de Panamá		Docente	rirodriguez@umip.ac.pa
37	Valentina Sanchez	Universidad Marítima Internacional de Panamá		Cadete	valentina.sanchez@umip.ac.pa
38	Kevin Fernandez	Universidad Marítima Internacional de Panamá		Cadete	kevin.fernandez@umip.ac.pa
39	Amali Fong	Universidad Marítima Internacional de Panamá		Docente	afong@umip.ac.pa
40	Hellen Guerra	Universidad Marítima Internacional de Panamá		Cadete	helen.guerra@umip.ac.pa
41	Karly Urriola	Universidad Marítima Internacional de Panamá		Docente	helen.guerra@umip.ac.pa
42	Gabriela Quintana	Universidad Marítima Internacional de Panamá		Cadete	gabriela.quintana@umip.ac.pa
43	Eira Jimenez	Universidad Marítima Internacional de Panamá		Docente	ejimenez@umip.ac.pa
44	Adela Zafrani	Universidad Marítima Internacional de Panamá		Cadete	adela.zafrani@umip.ac.pa
45	Faustino González	Universidad Marítima Internacional de Panamá		Decano de FACINA	fgonzalez@umip.ac.pa
46	Victor Lau	DNV			victor.lau@dnv.com; vlarico@gmail.com
47	Sergio Enrique Jaramillo	EP FLOPEC			sjaramillo@flopec.com.ec; g.general@flopec.com.ec
48	Viviane Oviedo	Organización Marítima Internacional			VOviedo@imo.org
49	Gerardo Bosquez	Trader Tanker		Gerente	gebosquez@tradertanker.com
50	Consejo Superio Universitario	APADEMAR		Enviar Invitación	info@apademar.org
51	Consejo Superio Universitario	APOM		Enviar Invitación	apompanama1@gmail.com; Felipeestribi@hotmail.com
52	Consejo Superio Universitario	CAMARA MARITIMA DE PANAMÁ		Enviar Invitación	asistencia@camaramaritima.org.pa
53	CONAGEMAR	CONAGEMAR		Enviar Invitación	presidencia@conagemar.org; información@conagemar.org
54	Stacy Aguilar	SGS		Product Manager, Natural Resources	Stacy.Aguilar@sgs.com
55	Karen Ochoa	SGS		Commercial Coordinator, Natural Resources	karen.ochoa@sgs.com
56	Fernando Young	SGS		Laboratory Manager	Fernando.Young@sgs.com
57	Claudia Chavarria	SGS		Industries & Environment Supervisor, Marine	Claudia.Chavarria@sgs.com
58	Kurt Leiseder	Delegación de la Unión Europea en Panamá		Cooperation Officer	Kurt.LEISEDER@eeas.europa.eu
59	Dr. Arthur James R., Ph.D., M.Sc., P.E.	Delegación de la Unión Europea en Panamá		Energy and Carbon Sequestration Consultant	arthurjamesrivas@gmail.com
60	Alvaro Jose Zaldaña Gonzalez	MARINA NACIONAL DE EL SALVADOR			varo_zalda@hotmail.com; medioambienteacuaticosgcmn@gmail.com
61	Andrea Patricia Solorzano de Romero	MARINA NACIONAL DE EL SALVADOR			andysolosorio@gmail.com; _jefaturaintmarymaa@gmail.com



- Pictures of the Workshop







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This event not only allowed for the sharing of best practices and solutions for the decarbonization of the maritime sector, but also for the consolidation of a regional community committed to climate action, innovation, and sustainability.