

# Workshop 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>

## Content

First Regional Workshop – Executive Summary .....	3
1 Workshop Preparation and Coordination.....	4
1.1 Regional Workshop Agenda .....	4
2 Communication and Visibility Activities .....	5
2.1 Workshop Logistics .....	9
2.1.1 Participation in the Regional Workshop .....	9
3. Workshop Schedule .....	11
3.1 Opening speeches/keynote addresses.....	11
3.2 Presentation of the GMN Phase II Project and Objectives of the Regional Workshop.....	13
3.3 SESSION 1: Panel Discussion - Implementation of technical measures by Latin American Maritime Administrations to reduce GHG emissions.....	16
3.3.1 Perceptions Collected – Evaluation of Session 1 .....	18
3.4 SESSION 2 – Use of sustainable alternative marine fuels – experiences and lessons learned .....	19
3.4.1 Perceptions Collected – Evaluation of Session 2 .....	21
3.5 Session 3: Practical Session – Decarbonization in action.....	22
3.5.1 Perceptions Collected – Evaluation of Session 3 .....	24
3.6 Session 4: Visit to the Panama Canal Locks.....	24
3.6.1 Decarbonization Measures implemented by the Panama Canal .....	25
3.7 Session 5: Promoting gender equality towards maritime decarbonization in Latin America.....	26
3.7.1 Perceptions Collected – Evaluation of Session 5 .....	28
3.8 Session 6: Panel Discussion - The Role of Financing Institutions and the Banking Sector in Supporting Maritime Decarbonization Projects.....	29
3.8.1 Collected Perceptions – Session 6 Evaluation .....	31
3.9 Session 7: Regional Industry Alliance in Latin America.....	32
3.9.1 Collected Perceptions – Session 7 Evaluation .....	35
4 Feedback from participants .....	36
4.1 Regional Workshop Summary .....	36
This closing session reinforced the importance of maintaining the momentum generated throughout the workshop by promoting the continuity of collaborative efforts toward a cleaner, fairer, more resilient, and sustainable maritime industry in Latin America. ....	
37	
5 Challenges .....	38
6 Looking Ahead.....	39
7 Annexes.....	42
7.1 Regional Workshop Agenda .....	42
7.2 Presentations .....	47
7.3 List of participants .....	<b>Error! Bookmark not defined.</b>

## 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 Regional Workshop aimed at fostering 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.

### Key Themes and Topics:

- Maritime decarbonization strategies
- Energy efficiency and technological measures
- Alternative marine fuels
- Regulatory compliance and policy alignment
- Climate finance and investment readiness
- Gender equality and social inclusion
- Regional industry cooperation
- Institutional capacity building
- Digitalization and emission monitoring tools

### The main outcomes 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 **100** 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 LA** 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**. The workshop conclusions will inform MTCC-LA's technical assistance work and regional coordination efforts under GMN Phase II.



# 1 Workshop Preparation and Coordination

The preparation of the First Regional Workshop of the **GMN Phase II Project** was led by **MTCC LA**, in coordination with the **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 (PCU) 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 (Day 1 and Day 2) was developed by **MTCC LA** in collaboration with the **IMO PCU**, 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 LA** 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
- ✓ Public and Private Partnerships and Regional Collaboration for Maritime Decarbonization
- ✓ Success stories from the region
- ✓ Promotion of gender equality in maritime energy efficiency initiatives
- ✓ International collaboration and sustainable financing

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 LA** was responsible for developing and implementing the communication and visibility strategies for the **First Regional Workshop**. 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 PCU, 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

**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).

**EXPOSITORES**  
Nacionales e Internacionales

**MODALIDAD**  
Presencial

**MTCC LATIN AMERICA**  
Maritime Technology Cooperation Centre

**GMN** The Global MTCC Network

**Global Gateway**

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

**CONTACTAR:** mtcclatinamerica@umip.ac.pa / www.mtcclatinamerica.com (507) 520 - 0344

with **Gabriel Fuentes-Léscano** and 29 others · umip.ac.pa

**MTCC Latin America** está con **Javier Díaz** y 24 personas más.  
27 de febrero ·

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

El **MTCC Latin America** 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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**UMIP** f x @umaritima umip.ac.pa

**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 LA** with the approval of the IMO's GMN Phase II PCU. **UMIP**, as the host institution for MTCC LA, 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


**MTCC LATIN AMERICA**  
Maritime Technology Cooperation Centre
 
**GMN** | The Global MTCC Network  
A global network for energy efficient shipping
 
**Global Gateway**

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**UMIP**





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Figure 1





Figure 2



Figure 3

## 2.1 Workshop Logistics

**MTCC LA** 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 LA'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 LA** social media platforms.

### 2.1.1 Participation in the Regional Workshop

The Regional Workshop was attended by over **100** 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 **16 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:

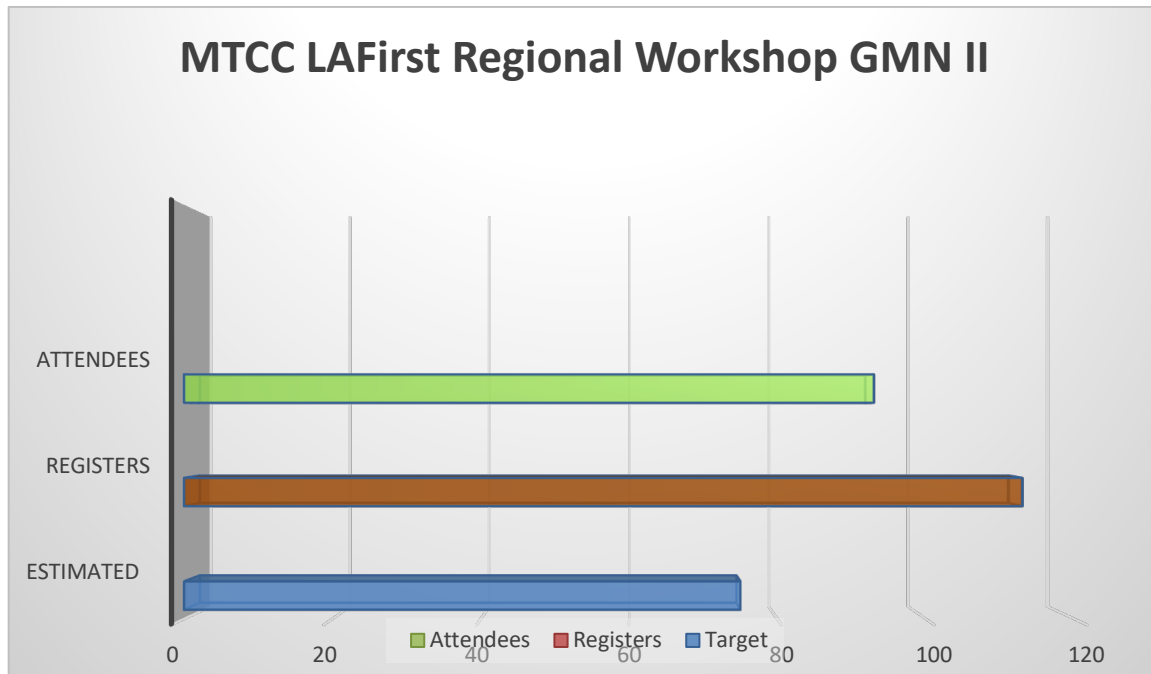
Stakeholder distribution	
• Maritime Administrations	16
• Classification Societies	5
• Universities and Maritime Academies	5
• Governmental Entities	14
• International Organizations	7
• Maritime Research and Training Institutions	5
• Non-Governmental Organizations in the maritime sector	7
• Ports and Port Authorities	7
• Ship Owners and Operators	4
• Fuel and Technology Suppliers	5
• Cadets and students in the maritime field	21
• Organizers and speakers	16
• Other relevant stakeholders linked to the maritime sector	10

The states within the Latin America region represented at the workshop included: Panama, Argentina,

Chile, Bolivia, Peru, Colombia, Uruguay, Paraguay, Ecuador, Honduras, Guatemala, Mexico, Cuba, Costa Rica, Dominican Republic, and Brazil.

**Gender distribution:** The regional workshop had the participation of **53% Male** and **47% Females** participants

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



*Graphic 1*



### 3. Workshop Schedule

**MTCC LA** 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 LA** 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 speeches/keynote addresses

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.

The opening remarks were delivered by **Professor Víctor Luna Barahona**, President of the **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*

**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.



*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.



*Keynote Speaker 3*

On behalf of the **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 important pillars for achieving the goal of greener, fairer, and more sustainable global shipping.



*Keynote Speaker 4*

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 Phase 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 LA** within this new phase of international cooperation.

#### Presentation of the GMN Phase II Project

The official presentation of the GMN Phase II Project was led by **Petra Ghassemi Ahari**, representative of the **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 GHG emissions from international shipping.



The role of the **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:

- Technology Pilots – Demonstrating innovative energy efficiency and emissions-reducing technologies
- Capacity Building – Strengthening technical and institutional capabilities to support sustainable maritime practices.
- Building Public-Private Partnerships – Fostering collaboration through regional industry alliances and engagement with the private sector.
- Promoting Gender Equality – Ensuring inclusivity and representation, particularly in technical roles and technology demonstration activities.



*Keynote Speaker 5*

## The Role of MTCC LA and the Objectives of the Regional Workshop

Subsequently, **Ervin Vargas** and **Javier Díaz**, representing the **MTCC LA** 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 LA** 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 LA** 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 Maritime Administrations 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 LA**, and included representatives from Chile, Colombia, Panama, and Uruguay, who presented specific cases, institutional frameworks, and national experiences related to 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 **IMO in its Revised Strategy 2023**.

The panelists for this session were:

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



*Keynote Speaker 7*



Lieutenant Captain in the Chilean Navy, he currently serves in the Maritime Inspection Service of the Directorate of Maritime Safety and Operations (DIRSOMAR)

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



*Keynote Speaker 8*

- **Rina Berrocal** – AMP, Panamá

Marine 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).



*Keynote Speaker 9*

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



*Keynote Speaker 10*

Lieutenant (CP) in the National Naval Prefecture of Uruguay.

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 LA**, 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

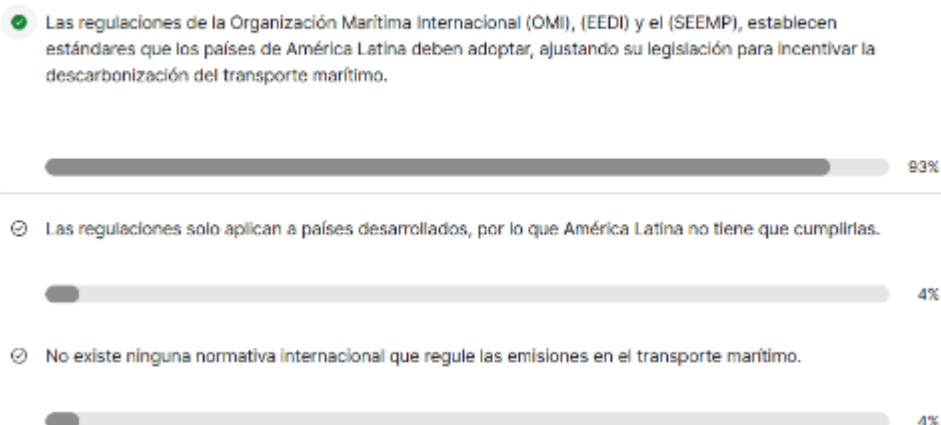
During the workshop, evaluation surveys were administered to gather participants' opinions regarding the content, the clarity of the speakers, the relevance of the topics covered, and the applicability of what was learned. Below are the sections designated for the specific results for each session, which 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*

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



*Keynote Speaker 12*

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



*Keynote Speaker 13*

- **Stefano Morello** – *ClassNK*



*Keynote Speaker 14*

## 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.
- **Experience 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.

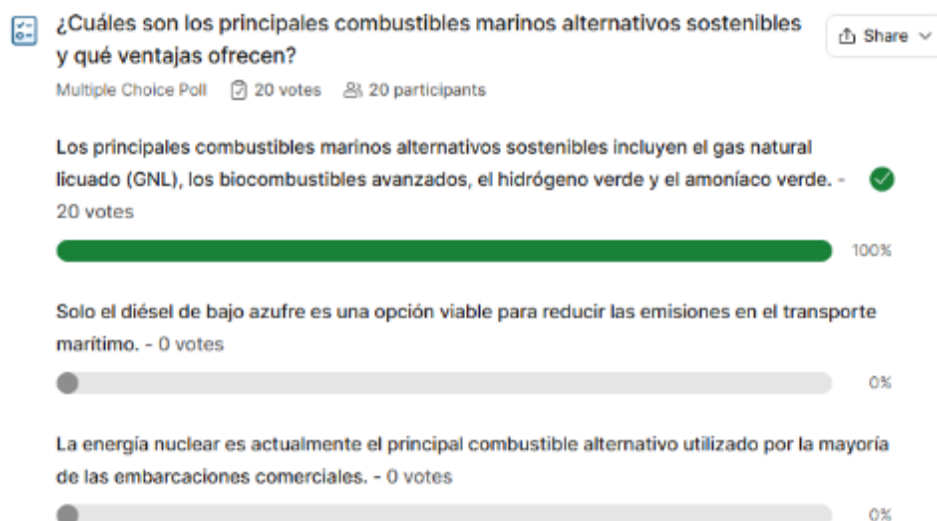
During the Q&A and discussion period, participants raised concerns related to the **certification of new technologies**, the need to **establish flexible yet robust regulatory frameworks**, and the steps necessary to ensure that the energy transition does not increase technological inequality between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

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.



*Keynote Speaker 17*

- **Rafael Orjuela** – *IRCA*



*Keynote Speaker 18*

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.

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



*Keynote Speaker 19*

Estela del Carmen Luck Archbold is the Sustainability Manager for the Panama Canal Authority (ACP).

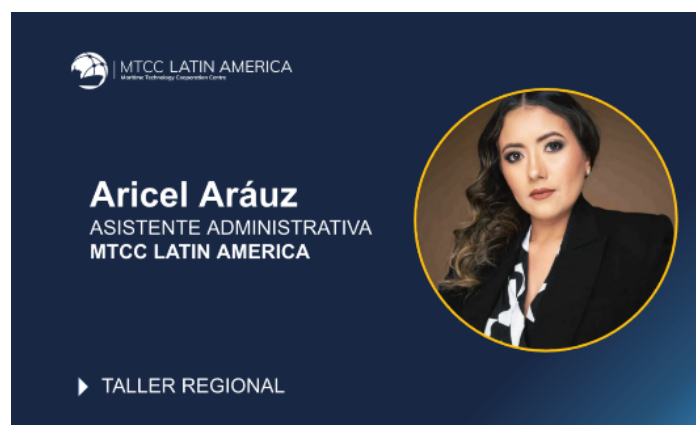
The session concluded with a round of questions and feedback, highlighting the value of the Panama Canal as an example of maritime infrastructure in transformation, whose focus on sustainability can serve as a model for other port and maritime authorities in the region.

### 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 works as an Administrative Assistant at the Maritime Technology Cooperation Centre for Latin America (**MTCC Latin America**).

#### Keynote Speakers:

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

Aneth Pitterson is the Safety, Health, Environment, and Quality (SHEQ) Manager at VT Shipping International.



*Keynote Speaker 21*

- **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).

- **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).

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.

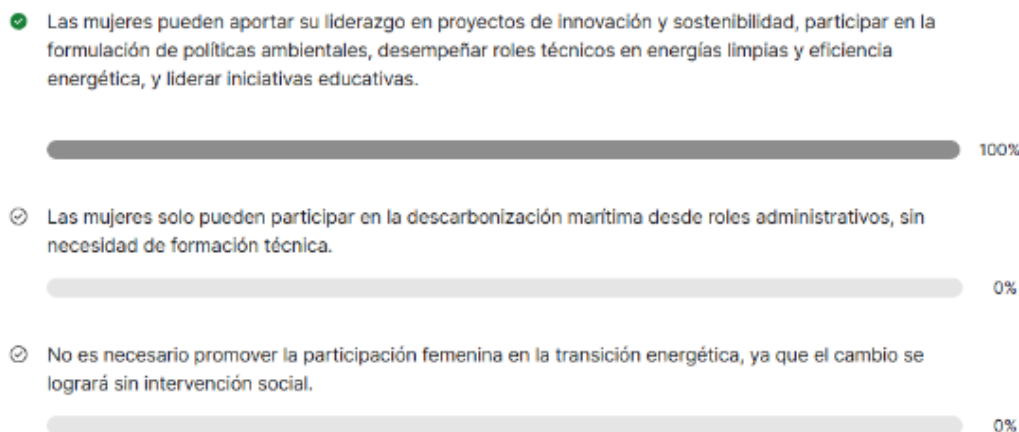
### 3.7.1 Perceptions Collected – Evaluation of Session 5

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 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 - The 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 serves as Senior Business Officer at Banco Internacional de Costa Rica (BICSA).

#### Keynote Speakers:

- **Agustina Calatayud** – *Inter-American Development Bank* Agustina Calatayud is a Lead Transportation Specialist in the Transportation Division of the Inter-American Development Bank (IDB)



*Keynote Speaker 25*

- **Carla Chízmar – CIFI**

Carla Chízmar is the Director of the Environmental, Social and Governance (ESG) Department at **CIFI – Corporación Interamericana para el Financiamiento de Infraestructura, S.A** Management.



*Keynote Speaker 26*

- **Fausto Arroyo – CAF**

Fausto Arroyo Crejo is a Senior Executive in the Regional Integration Directorate at CAF, the Development Bank of Latin America and the Caribbean.



*Keynote Speaker 27*

- **Alexandra Aguilar – UN Global Compact**

Alexandra Aguilar del Valle is a sustainability professional with experience in implementing and overseeing Environmental, Social, and Governance (ESG) strategies.



*Keynote Speaker 28*

During the session, discussions focused on how financial institutions can become enablers of climate action, not only as capital providers but also as strategic partners in the identification, structuring, and assessment of projects that contribute to emissions reduction in maritime transport.

**Key topics addressed during the panel included:**

- The growing importance of aligning financial flows with international climate goals, particularly the Paris Agreement and the guidelines of the IMO Strategy.
- Presentation of green financial products, credit lines, and blended finance schemes to support clean technologies, energy efficiency, fleet modernization, and port infrastructure upgrades.
- The role of regional banks in mobilizing local capital and fostering confidence for public-private co-investments.
- Discussion on key 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 industry stakeholders to develop technically feasible and financially sound proposals.

The panelists agreed that decarbonization is not only a technological challenge but also a financing challenge, requiring access to adequate funding, at the right time, and under conditions that reflect the region’s economic realities. 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 play an active role in assessing climate-related risks, both physical and transitional, which requires the integration of environmental sustainability assessment tools into traditional credit risk evaluation processes.

During the exchange segment, real-world examples were discussed, including the financing of green port projects, pilot initiatives in onboard energy efficiency, and the barriers faced by maritime SMEs in accessing climate finance, especially in contexts of low formalization or lack of collateral.

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 energy transition in the maritime sector is unlikely to progress at the necessary pace and scale.

### 3.8.1 Collected Perceptions – Session 6 Evaluation

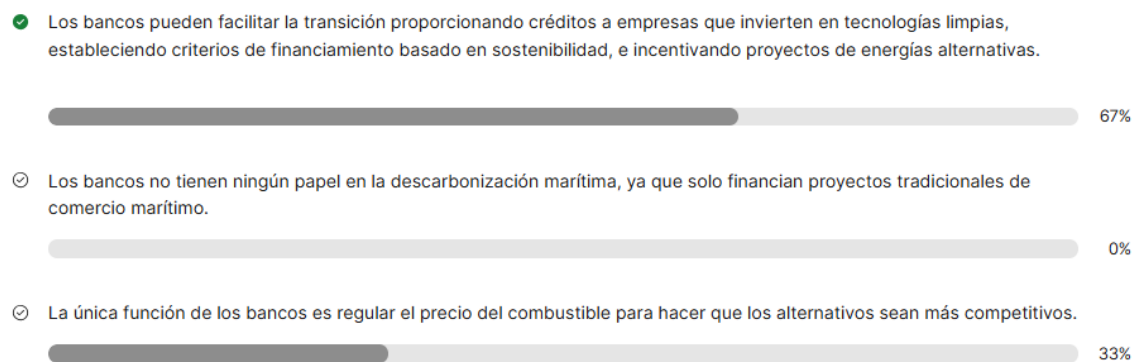
During the workshop, evaluation surveys were conducted with the purpose of gathering participants’ feedback regarding the content, clarity of the presenters, relevance of the topics covered, and the applicability of the knowledge acquired. Below are the sections designated for the specific results of each session, which will be complemented with graphs and images once the analysis of the responses is completed.



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

### *Results of the questions made during 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 among maritime industry stakeholders 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 driving sustainable initiatives in the region.

### **Moderator:**

- **Javier Díaz**

### **Panelists:**

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

Alexis Xavier Rodríguez is the Regional Head of Energy Transition Execution for Latin America at A.P. Moller – Maersk.



*Keynote Speaker 29*

- **José Digeronimo** – *Panama Maritime Chamber President*



*Keynote Speaker 30*

Digeronimo is the Director and 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.

- **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.

- **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) at the Ecuadorian Oil Fleet (EP FLOPEC).

The panel began with a presentation of the conceptual and operational foundations necessary to establish an effective Regional Alliance, emphasizing the importance of creating a multisectoral coordination platform that aligns efforts among the private sector, public administrations, technology centers, and international organizations.

Panelists shared their perspectives on the feasibility 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 facilitate access to green financing.
- The value of having permanent spaces for dialogue, trust-building, and the definition of shared strategic priorities.
- The importance of developing technical tools, guidelines, and harmonized regulatory frameworks that enable industry to implement concrete measures.
- The identification of key sectors such as port infrastructure, the supply chain, the shipbuilding industry, and maritime services as entry points for regional cooperation.



One of the most highly valued aspects of the panel was the recognition that the industry's commitment must not be passive or reactive, but rather proactive and strategic, capable of mobilizing resources, generating green jobs, contributing technological solutions, and leading large-scale transformation processes.

During the Q&A segment, participants discussed the potential governance structure of the RIALA, its initial funding mechanism, and the priorities it should address, ranging 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 a proposal to continue its development through technical working groups led by MTCC Latin America, with the aim of formalizing its design and operational structure in the coming months.

### 3.9.1 Collected Perceptions – Session 7 Evaluation

During the workshop, evaluation surveys were conducted to gather participants' feedback regarding the content, clarity of the speakers, relevance of the topics addressed, and applicability of the knowledge gained. Below are the sections allocated to the specific results by session, which will be complemented with graphs and images once the analysis of the responses is completed.

This session sparked debate and proposals. The survey results are expected to reflect participants' interest in advancing the initiative, as well as suggestions regarding its governance, structure, and priority areas of action.

#### *Results from questions made 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 Feedback from participants

### 4.1 Regional Workshop Summary

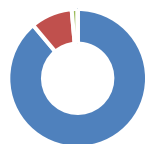
The First Latin American Regional Workshop of the GMN Phase II Project represented a milestone in capacity-building and regional coordination efforts aimed at decarbonizing maritime transport in Latin America. Over the course of two days, the event featured technical sessions, panel discussions, inter-institutional dialogue spaces, a practical session, a technical visit to the Panama Canal, and a segment dedicated to gender equality, allowing the topic to be addressed from a comprehensive, multidisciplinary, and multi-stakeholder perspective.

#### Key achievements of the workshop included:

- Presentation of concrete experiences by maritime administrations in implementing technical measures for energy efficiency and emissions reduction.
- Exchange of lessons learned on sustainable alternative marine fuels, featuring insights from internationally recognized classification societies.
- Showcasing of practical tools and project models during the “Decarbonization in Action” session, promoting applied learning.
- Collective reflection on gender equality, emphasizing the need to integrate an equity perspective as a structural component of the energy transition.
- Strategic discussions 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.

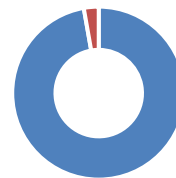
In addition, a feedback and evaluation survey were conducted to gather participants’ impressions regarding the content covered, the workshop dynamics, and opportunities for improvement in future editions.

How would you rate the design and structure of the presentations?



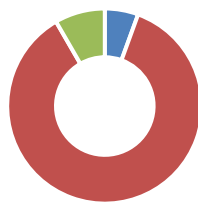
■ Excellent ■ Good ■ Satisfactory  
■ Poor ■ Too Poor

Did you receive the information of the Regional Workshop before the event?



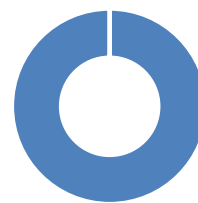
■ Yes ■ No

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?



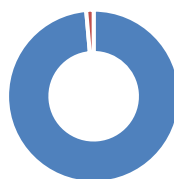
■ Yes ■ No

How would you rate the event in terms of its alignment with and delivery of the...



■ Excellent ■ Good ■ Satisfactory  
■ Poor ■ Too Poor

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



■ Yes ■ No

Do you anticipate being able to share knowledge and skills gained from this...



■ Yes ■ No

The workshop concluded with an institutional wrap-up session, during which the MTCC Latin America team expressed gratitude for the participation of all delegations, reaffirmed its commitment as a Regional Maritime Technology Cooperation Centre, and presented the key lines of work to be advanced under the GMN Phase II Project, aligned with regional priorities and the mandates of the International Maritime Organization (IMO).

This closing session reinforced the importance of maintaining the momentum generated throughout the workshop by 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 Regional Workshop of the GMN Phase II Project, several challenges were identified that provided valuable lessons for the development of future events with regional and international scope. The main observations are outlined below:

- **Multisectoral coordination prior to the event:** While broad representation of key maritime stakeholders was achieved, there is a recognized need to strengthen early coordination and outreach mechanisms among maritime administrations, industry, academia, and technical institutions.
- **Technical level homogeneity among participants:** National disparities in technology adoption, regulatory frameworks, and institutional capacities revealed gaps in knowledge regarding maritime decarbonization. This reinforces the need to continue promoting differentiated and specialized capacity-building opportunities.
- **Logistics and coordination of simultaneous sessions:** Given the hybrid (in-person and virtual) format of the event, additional logistical and technical efforts were required to ensure a smooth, synchronized, and high-quality experience for all participants—both local and international.
- **Time management in discussion panels:** In some sessions, the dynamism of presentations and high audience engagement limited the time available for questions and answers. This highlights the need to consider restructuring thematic blocks or extending the duration of future editions.
- **Cross-cutting integration of key approaches:** Although topics such as gender equity and technological innovation were addressed in dedicated sessions, there is an opportunity to mainstream these themes more effectively across all discussions and presentations.

These challenges did not hinder the success of the event; rather, they reflect the complexity and richness of a high-level regional gathering. Addressing them proactively will help strengthen the organizational capacities of MTCC LA and its partners, ensuring continued leadership in promoting spaces for reflection and action toward a just energy transition in the maritime sector.

## 6 Looking Ahead

The MTCC LA First Regional Workshop achieved its objectives by facilitating regional dialogue, promoting knowledge exchange, and identifying concrete pathways toward a low-carbon maritime future for the Latin American region. Throughout the two-day event, participants representing over twenty countries and key stakeholders from maritime administrations, industry, academia, and financial institutions engaged in high-level discussions on technological innovation, regulatory alignment, climate financing, and the integration of gender equality into decarbonization strategies.

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 should be addressed in the short and medium term to sustain the maritime decarbonization process in Latin America:

Strengthening the technical capacities of maritime administrations through specialized training and continuous education in clean technologies, emissions monitoring, and international regulations.

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

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

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

Mainstreaming the gender perspective, ensuring that women's participation in the energy transition is an integral part of policy and project design and implementation.

These action lines are expected to be further developed in future regional meetings and to serve as the foundation for a shared roadmap toward a sustainable, resilient, and inclusive maritime industry in Latin America.



## Summary of Workshop Outcomes &amp; Actions

Session Title	Outputs/Outcomes	Next Steps	Owner(s)
<b>Panel Session 1: Implementation of technical measures by the Latin America Maritime Administrations to reduce GHG emissions</b>	- Provided an overview of maritime decarbonization efforts in Latin America ports and shipping.	<ul style="list-style-type: none"> <li>- Develop regional research proposals aligned to GMN Phase II objective.</li> <li>- Support MARADs in proposal development to access green financing.</li> </ul>	MTCC, MARADS
	- Highlighted challenges (such as limited digital infrastructure, policy gaps, high cost) and opportunities (such as regional cooperation, strategy alliances)		
	- Emphasized need for research-driven strategies and proactive policy development.		
<b>Panel Session 2: Use of Sustainable Alternative Marine Fuels-Experiences and Lessons Learned</b>	- Identification of the challenges and opportunities on the use of alternative marine fuels in Latin America.	<ul style="list-style-type: none"> <li>- Training programs on Alternative Marine Fuels</li> <li>- R &amp; D on Green Shipping Corridors</li> </ul>	MTCC, Port Authorities, MARADS, Class Society
		- Promote regional collaboration initiatives	MTCC
<b>Session 3: Practical Session – Decarbonization in action</b>	- Understanding the various methodologies of decarbonization solutions that could be implemented within Latin America	<ul style="list-style-type: none"> <li>-Support uptake of technology for monitoring GHG emissions</li> <li>-Facilitate knowledge sharing among Latin America countries</li> </ul>	MARADS, Regional Governments, MTCC, Academia
<b>Session 4: Field Visit to the Miraflores Locks of the Panama Canal</b>	- Understanding the measures implemented to decarbonize shipping that could be applied by Maritime Authorities, Ports and Canals	- Promoting integration of national and regional stakeholders	MTCC, Industry
			MTCC, MARADS
<b>Session 5: Roundtable – Promoting the Gender Equality towards Maritime Decarbonization in Latin America</b>	- Identified Gaps in workplace culture, gender bias and career barriers for women	<ul style="list-style-type: none"> <li>- Update MTCC Latin Americas Gender Action Plan to guide gender inclusivity in maritime decarbonization efforts.</li> <li>- Address the identified gaps in future gender focused activities</li> </ul>	MTCC, Women Associations
	- Agreed Priorities: mentorship, visibility and policy strengthening	-Advocate for gender-responsive policies in national maritime framework	MTCC, MARADS, Women Associations
<b>Session 6: Panel Discussion – Role of Financing Institutions and Banking Sector to support the Maritime Decarbonization Projects</b>	-Identified research, financing, and capacity building as core regional needs	-Develop proposals that can address the identified regional needs	MTCC, MARADS
	-There is a need for a coordinated approach to accessing finance for maritime decarbonization initiatives	-Facilitate cross-ministerial dialogue	MTCC, MARADS, Financial Institutions
	-Increased dialogue between maritime authorities, climate change agencies, government ministries and financial institutions		
<b>Session 7: Regional Industry Alliance for Latin America (RIALA)</b>	- Need for capacity building for the development of bankable projects and proposals to access funding for port development.	<ul style="list-style-type: none"> <li>-Engage national government agencies in maritime decarbonization dialogue</li> <li>-Facilitate training or technical assistance in proposal development</li> </ul>	MTCC, MARADS, Regional Governments and Government Agencies
	- Support for the formation of a Regional Industry Alliance (RIA) for regional collaboration and sustainable maritime decarbonization.	- Initiate formal discussions to establish the RIA and create a strategic roadmap.	- MTCC, Regional Governments, Private Sector, Industry Leaders, Technology Providers
	- Identification of key challenges in forming the RIA, including ambition misalignment and resource constraints.	- Address policy misalignment and advocate for a harmonized regulatory framework in the region.	

Session Title	Outputs/Outcomes	Next Steps	Owner(s)
Participant Feedback Session	- Positive feedback on the workshop's content and sessions.	- Utilize feedback to improve future workshop structure and content.	MTCC
	- Suggestions to extend the workshop and include more practical applications.	- Consider extending the workshop duration for more in-depth discussions and case studies.	MTCC

## Next Steps

Building on the momentum and insights gained during the First Latin American Regional Workshop, MTCC LA reaffirms its commitment to advancing maritime decarbonization through strategic collaboration, capacity building, and regional engagement. Key follow-up actions include:

- **Formalization of the Regional Industry Alliance for Latin America (RIALA):** MTCC LA will lead the efforts to establish RIALA as a collaborative platform that unites maritime industry stakeholders, public institutions, and academia to coordinate decarbonization efforts, promote innovation, and advocate for access to climate financing across the region.
- **Integration of Gender Equality in Maritime Decarbonization:** Based on the outcomes of the gender-focused session, MTCC LA will develop targeted initiatives to promote women's participation in the energy transition, including mentoring networks, inclusive policies, and gender-responsive training programs.
- **Capacity Development and Technical Support:** MTCC LA will continue to provide technical assistance and capacity building through specialized training programs, knowledge-sharing events, and pilot initiatives aligned with the needs of national maritime administrations (MARADs), ports, and private sector actors.
- **Policy Alignment and Multilateral Engagement:** MTCC LA will work with national authorities and regional organizations to promote policy harmonization and represent Latin American priorities within the IMO and other global platforms, while also strengthening cooperation with development banks and climate finance institutions.

The workshop reinforced the urgent need for coordinated action and shared responsibility to achieve maritime decarbonization. **MTCC LA** remains committed to supporting the region's transition towards a sustainable, resilient, and inclusive maritime future.


## KPIs as per 2025 Work plan

	KPIs Agreed	KPIs Achieved
Preparation for 1 in-person Regional Workshop for the Latin America region	- 50 Participants - 1:1 Male to Female Participant Ratio	- 123 Participants - 46.6% Female Attendance
Hosting 1 in-person Regional Workshop for the Latin America region	- 1 Regional Workshop Hosted	- 1 in-person Regional Workshop hosted
Submission of Regional Workshop Report	- 1 Workshop Report	- 1 Workshop Completion Report submitted

## 7 Annexes

### 7.1 Regional Workshop Agenda

Día 1: martes 18 Marzo del 2025		
Hora	Sesión	Presentadores
08:30 - 08:45	Llegada y registro	MTCC-LA
	Ceremonia de inauguración oficial	
09:00 - 09:05	Palabras de bienvenida y presentaciones generales	OMI – UMIP/MTCC-LA
09:10 - 09:15	Discurso de bienvenida	UMIP Rector – Víctor Luna
09:20 - 09:30	Palabras de Bienvenida	AMP – Volney Guinard Embajadora de UE en Panamá – Izabela Matusz OMI – Carlos Salgado
09:35 - 09:45	FOTO GRUPAL	
09:50 - 10:15	RECESO	
10:20 - 10:30	Presentación del Proyecto GMN Fase II	OMI PCU – Petra Ghassemi Ahari
10:35 - 10:45	El rol del MTCC América Latina y los objetivos del Taller Regional y actividades futuras	MTCC-LA – Ervin Vargas/ Javier Díaz
	<b>SESIÓN 1: PANEL DE DISCUSIÓN: IMPLEMENTACIÓN DE MEDIDAS TÉCNICAS POR PARTE DE LAS ADMINISTRACIONES MARÍTIMAS DE AMÉRICA LATINA PARA REDUCIR LAS EMISIONES DE GEI</b>	<b>Moderador:</b> Ervin Vargas <b>Expositores:</b> <b>DIRECTEMAR</b> - Chile - Jorge de la Fuente <b>DIMAR</b> - Colombia - Marco Olier Mendoza <b>AMP</b> - Panamá - Rina Berrocal <b>Prefectura Naval de Uruguay</b> - Bettina Alejandra Santana Botello

10:50 – 11:55	<ul style="list-style-type: none"> <li>Desarrollo de la Estrategia Nacional de Hidrógeno Verde</li> <li>Retos y barreras en la implementación de Medidas de Eficiencia Energética</li> <li>Desarrollo de acciones operativas para la protección del medio ambiente</li> <li>Promoción de Tecnologías de Eficiencia Energética en el sector marítimo</li> <li>Preguntas y respuestas</li> </ul>	<b>Resultados Esperados:</b>  Proporcionar una visión general de las iniciativas desarrolladas por las administraciones de América Latina y sus esfuerzos para reducir las emisiones de GEI.
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12:00 – 13:00	ALMUERZO	
	<b>SESIÓN 2: USO DE COMBUSTIBLES MARINOS ALTERNATIVOS SOSTENIBLES: EXPERIENCIAS Y LECCIONES APRENDIDAS</b>	<b>Moderador:</b> 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>El hidrógeno como combustible marino y los desafíos de la descarbonización</li> <li>Experiencia con Metanol como combustible en Buques Mercantes</li> <li>El GNL como combustible marino: presente y perspectivas</li> <li>Preguntas y respuestas</li> </ul>	<b>Resultados Esperados:</b>  Identificación de los retos y oportunidades en el uso de combustibles marinos alternativos
	<b>SESIÓN 3: SESIÓN PRÁCTICA – DESCARBONIZACIÓN EN ACCIÓN</b>	<b>Moderadora:</b> Beatriz González <b>Expositores:</b> Gabriel Fuentes – <b>NHH</b> Javier Díaz – <b>MTCC-LA</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>• Retos y oportunidades</li> <li>• Participación de las Mujeres en Proyectos de Corredores Marítimos Verdes y otras iniciativas</li> <li>• Interacción con Indicadores Estadísticos de Sostenibilidad y Eficiencia Marítimas</li> <li>• Soluciones Tecnológicas de Descarbonización Marítima</li> <li>• Grupos de trabajo / Casos de estudio</li> </ul>	<b>Resultados Esperados:</b>  Entendiendo las diferentes metodologías de soluciones de descarbonización que podrían implementarse en América Latina
15:05 – 15:25	COFFEE BREAK	
	<b>RESULTADOS DE LA SESIÓN PRÁCTICA – PRESENTACIÓN GRUPAL</b>	Moderadora: Beatriz González
15:30 - 16:20	Presentaciones de los grupos de trabajo / Estudios de casos	
16:25 - 16:30	Resumen del día 1	MTCC-LA
<b>Culminación del Primer Día</b>		

**Día 2: Miércoles 19 de Marzo, 2025**

<b>08:00 - 08:10</b>	Llegada y registro	<b>MTCC-LA</b>
	<b>SESSION 4: VISITA A LAS ESCLUSAS DEL CANAL DE PANAMA</b>	<b>MTCC-LA y ACP</b>
<b>08:15 - 08:30</b>	Salida de las Instalaciones de la UMIP	
<b>08:30 - 08:35</b>	<ul style="list-style-type: none"> <li>Llegada al Centro de Visitantes de Miraflores del Canal de Panamá</li> </ul>	
<b>08:40 - 10:00</b>	<ul style="list-style-type: none"> <li>Tour por el Centro de Visitantes de Miraflores</li> </ul>	
<b>10:00 - 10:25</b>	<b>RECESO</b>	
<b>10:30 - 10:55</b>	Llegada a las Instalaciones de la UMIP	
<b>11:00 - 11:30</b>	Medidas implementadas por el Canal de Panamá apoyando en la Descarbonización Marítima	<b>Estela Luck – ACP</b>
<b>11:35 - 11:55</b>	<ul style="list-style-type: none"> <li>Sesión de Preguntas y Respuestas</li> <li>Retroalimentación</li> <li>Resumen de la Sesión</li> </ul>	<b>Resultados Esperados:</b>  Entendimiento de las medidas contribuyen a la descarbonización marítima para ser aplicadas por Autoridades Marítimas, Puertos y Canales
<b>12:00 - 12:55</b>	<b>ALMUERZO</b>	
	<b>SESIÓN 5: MESA REDONDA – PROMOVRIENDO LA IGUALDAD DE GÉNERO HACIA LA DESCARBONIZACIÓN MARÍTIMA EN AMÉRICA LATINA</b>	<b>Moderadora:</b> Aricel Arauz <b>Expositores:</b> 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>Dinámicas de género actuales en la industria marítima</li> <li>El papel de las mujeres en la descarbonización marítima</li> <li>Fortalecimiento de capacidades y formación</li> <li>Colaboración regional y de las partes interesadas</li> </ul>	<b>Resultados Esperados:</b>  Perspectivas sobre las brechas de género, oportunidades y estrategias para aumentar la participación de las mujeres en las iniciativas de descarbonización marítima según el SDG 5
	<b>SESIÓN 6: PANEL DE DISCUSIÓN – EL PAPEL DE LAS INSTITUCIONES DE FINANCIACIÓN Y DEL SECTOR BANCARIO EN EL APOYO A LOS PROYECTOS DE DESCARBONIZACIÓN MARÍTIMA</b>	<b>Moderadora:</b> Beatriz Castillo <b>Expositores:</b> Agustina Calatayud – IDB Carla Chízmar – CIFI Fausto Arroyo – CAF Alexandra Aguilar – UN Global Compact
14:05 – 15:00	Oportunidades de Financiamiento en el desarrollo de Proyectos Marítimos Sostenibles en América Latina ✓ Lecciones aprendidas ✓ Desafíos ✓ Oportunidades ✓ Iniciativas	<b>Resultados Esperados:</b>  Exploración de oportunidades para movilizar financiamiento a nivel nacional y regional para apoyar proyectos e iniciativas de descarbonización marítima sostenible
15:05 - 15:30	<b>RECESO</b>	
	<b>SESIÓN 7: ALIANZA REGIONAL DE LA INDUSTRIA EN AMÉRICA LATINA (RIALA)</b>	<b>Moderador:</b> Javier Díaz <b>Expositores:</b> Alexis Rodriguez – MAERSK Jose Digeronimo – Cámara Marítima de Panamá Silvia Marucci – PROPANAMA Drake Lisa – SGS Sergio Jaramillo – FLOPEC

<b>15:35 – 16:35</b>	<ul style="list-style-type: none"> <li>• Bases para una alianza regional colaborativa.</li> <li>• Perspectiva de la industria sobre el establecimiento de una ARC</li> <li>• Participación de las partes interesadas</li> <li>• ¿Qué se espera de una ARC de este tipo?</li> <li>• ¿Cuál debería ser la prioridad de una ARC?</li> <li>• Asociación público-privada</li> </ul>	<b>Resultados Esperados:</b>  Promoción de una vía para una alianza regional colaborativa en América Latina
<b>16:40 – 16:55</b>	<b>SESIÓN DE RETROALIMENTACIÓN Y EVALUACIÓN DE CONOCIMIENTOS – ENCUESTA</b>	<b>MTCC-LA</b>
<b>17:00 – 17:30</b>	<b>RESUMEN DEL TALLER</b>	<b>MTCC-LA</b>

## 7.2 Presentations

[Click here to access the presentations from all the speakers](#)



- Pictures of the event







- **Acknowledgements**

The successful execution of the First Latin American Regional Workshop of the GMN Phase II Project was made possible thanks to the commitment and collaboration of multiple stakeholders who contributed their expertise, time, and efforts to the success of the event.

**We would like to express our sincere gratitude to:**

The speakers and panelists, for sharing their knowledge, experiences, and perspectives, which greatly enriched each session of the workshop.

The national and international institutions, whose active participation and technical support enhanced the scope and quality of the event.

The maritime administrations, and representatives from the private, academic, and financial sectors, for their interest, contributions to the regional dialogue, and willingness to build joint solutions.

The GMN Phase II Project Coordinating Unit at IMO, for the technical and logistical support provided to ensure that this First Latin American Regional Workshop was a resounding success in the region, achieving its proposed goals and objectives.

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The International Maritime University of Panama (UMIP), for its institutional support and for providing the physical and technological spaces necessary for the workshop.

All participants from various countries across the region, whose presence, questions, comments, and contributions brought the knowledge exchange to life and fostered collective proposal-building.

This event not only served as a platform for sharing best practices and solutions for maritime sector decarbonization but also helped to consolidate a regional community committed to climate action, innovation, and sustainability.