

**Minutes** of a meeting of the Association's GHG Committee  
held in person on 18 March 2025 from 09:30 at Boskalis HQ in Papendrecht, NL

Members present are recorded in section 2, with the following also attending:

|                   |      |
|-------------------|------|
| Lee Billingham    | IMCA |
| Nikos Vasileiadis | IMCA |

## 1 Competition law compliance policy

The IMCA Competition Law Compliance Policy was drawn to the attention of all present.

## 2 Welcome and attendance

The chair welcomed members to the meeting

Apologies for absence were recorded, with the meeting attendance as follows:

| Name                          | Company        | 23/04/24  | 11/06/24 | 03/09/24  | 05/11/24 | 22/01/25  | 18/03/25  |
|-------------------------------|----------------|-----------|----------|-----------|----------|-----------|-----------|
| John Matthews                 | Subsea7        | ✓         | ✓        | ✓         | ✓        | ✓         | ✓         |
| Eugène van Dodeweerd          | Boskalis       | ✓         | ✓        | Part-Time | Absent   | ✓         | ✓         |
| Liesbeth Haan-van der Heijden | Van Oord       | Apologies | Absent   | ✓         | Absent   | Absent    | ✓         |
| Hedzer Keulen                 | Heerema        | ✓         | ✓        | Absent    | Absent   | Absent    | ✓         |
| Elena de Lazzari              | Allseas        | ✓         | ✓        | ✓         | ✓        | ✓         | ✓         |
| Jose Sanchez                  | TechnipFMC     | Part-Time | Absent   | ✓         | Absent   | Part-time | Apologies |
| Pierluigi Nunzi               | Saipem         | ✓         | ✓        | ✓         | ✓        | Absent    | Apologies |
| Peter McCombie                | TechnipFMC     | ✓         | Absent   | Apologies | ✓        | ✓         | Apologies |
| Gerd Van de Merlen            | DEME           | ✓         | ✓        | ✓         | ✓        | ✓         | ✓         |
| Iris de Vos-Hermeler          | Fugro          | ✓         | ✓        | ✓         | ✓        | ✓         | ✓         |
| Patricia Ayoub                | DOF            | ✓         | Absent   | Absent    | Absent   | ✓         | Absent    |
| Arnstein Klovrud              | DOF            | NA        | ✓        | ✓         | ✓        | ✓         | ✓         |
| Mark Bloemsma                 | Jumbo Maritime |           |          |           | ✓        | ✓         | ✓         |

Legend:

|            |             |              |             |        |     |
|------------|-------------|--------------|-------------|--------|-----|
| ✓ Attended | ✓ Part-Time | S Substitute | ✉ Apologies | Absent | N/A |
|------------|-------------|--------------|-------------|--------|-----|

## 3 Minutes of the previous meeting

### 3.1 Approval of the minutes

Previous minutes were circulated after the last meeting and no comments were received.

### 3.2 Matters arising from the minutes not covered by the agenda

There were no matters arising from the minutes that were not covered by existing agenda items.

## 4 Minutes

- 4.1 The agenda was presented as part of a slide deck that was used for the meeting (the slides can be found in the Meeting Papers folder of the Team site).
- 4.2 The Competition Law Compliance Policy reminder was presented.
- 4.3 The meeting proceeded with a discussion on actions from previous meetings, compliance policy and the status of existing action items. It was agreed that the existing list of actions will be cleaned. Some items are closed, and others are in progress. Members were encouraged to raise any compliance issues during the meeting.
- 4.4 The all-day meeting was split into 5 sessions: **(1) IMCA Updates & Status, (2) IMO & Climate Governance, (3) Technical and Operational Discussions, (4) Industry Trends & Data insights, (5) GHG Committee's Roadmap**. The group proceeded to discuss each item separately and in the specific order
- 4.5 Session 1 – IMCA Updates & Status
  - The group agreed that the scoping of different committees (e.g. MPRA, Marine, GHG) will be included in future discussions
  - The committee then continued with discussing IMCA's Alternative Fuels Working Group (AFWG) and suggested for the WG to scope down fuels that are useful and then check their availability keeping that way the WG focused. The WG should also focus on the existing offshore fleet and see what we can research on newbuildings vs retrofits
  - Conversation shifted to EU advocacy activities, with the group noting that the European Commission (EC) does not understand the offshore sector and had has been late in replying to the sector's inquiries. In that context. Hereema pointed out the issue of port of calls and that their vessels do not perform these in the strict way. IMCA is preparing offshore definitions for the EU
  - The group agreed that it needs to come to a common understanding on how to report to MRV and ETS requirements
  - On the EU CSRD aspect, the committee members agreed to align with the ESC members from their respective companies on a consolidated CSRD approach
- 4.2 Session 2 – IMO & Climate Governance
  - It was agreed that regulation interpretation is crucial for the group
  - On IMO CII – It's very difficult to create a consolidated one-size-fits-all approach for CII as a unified solution to benchmark vessels does not work for the offshore sector. However, to justify the reasons for increased emissions over a year there needs to be a benchmarking metric assessing the work done in a year
  - On CBAM – MPRA is starting to work around that. The committee considered whether there are any interesting aspects for them to work on
  - UK ETS – The MPRA and GHG committees are waiting for a response from the consultation process
  - Offsetting – SubSea7 does not have a lot of experience on that, but it's under discussion. Hereema feel that it is too close to greenwashing. It was also added that offsetting is not global practice but only helps locally
  - DOF, Jumbo, DEME, Allseas, Fugro, Van Oord are not offsetting
- 4.3 Session 3 – Technical and Operational discussions
  - The discussion began with the topic of electrification. The first question was on how IMCA can help with promoting hybridisation as it is difficult to change the minds of customers when it comes to electrification.
  - Boskalis suggested that the committee can push quality assurance of DP operations with batteries
  - Boskalis highlighted that there is also a lot of work that can be done amongst operators and that on the regulatory front safety with batteries (fire aspects) will be finalised by 2032 by the IMO

- The committee also agreed that quantifying risks with new technology is very challenging but quite important. Additionally, differentiation of types of projects in terms of criticality and safety might define the use of batteries (If a project is not critical then batteries might be used)
- The group highlighted that there are 3 things that IMCA can do (educate level of understanding and share the info)
  - i. Best practices – Share experiences
  - ii. Safe design and operations
  - iii. DP vessels on hybrid mode
- Additionally on the electrification aspect, the group outlined that OPS is useful for PSVs but OPS availability is scarce around the world (offshore vessels might not be able to easily use it)
- It was agreed that IMCA (Lee) will provide updates from IMCA's discussions with EOPSA
- Regarding vessel efficiency, the group discussed fuel additives, digitalisation, human performance, hull cleaning and a variety of energy efficiency measures
- Fuel additives – Jumbo have been using them for quite some time but they haven't been very useful in their operations
- Digitalisation – It was agreed that it is a basic building block of decarbonisation, but it's not easy and takes time. It's being built by the industry at the moment
- Human performance – Giving responsibility to the crew makes it effective. Although providing the right tools is useful, it can create conflict between commercial decisions and operations
  - i. It was highlighted that 7% of savings can be achieved just by implementing dashboards and metrics on board
- Hull cleaning – ESC has created a document highlighting the impacts of this solution
  - i. Boskalis mentioned their implementation of antifouling of box coolers in DP mode
  - ii. Boskalis and Fugro mentioned that they have used ultrasonic anti-fouling
- IMCA was tasked with developing a long list of energy efficiency measures focusing on operational measures, technical measures and alternative fuels
- Finally, under this session the committee discussed biofuels and agreed that some confusion has been generated on how to calculate and report biofuels under different regulations
- On educating members, It was proposed that a workshop with biofuel suppliers could take place and that IMCA could provide an overview of the different regulatory standards in place at the moment as companies are struggling with the different frameworks in place (GHG Principles vs EU vs IMO)

#### 4.4 Session 4 – Industry Trends & Data insights

- Customer advocacy was the key focus of this session and it was highlighted that discussions with the customers revolve around emissions on DP, safety and transit speed (which should happen pre-tender)
- The committee outlined that customers are focused on scope 1 emissions and are in denial when it comes to cost. In that context it was pointed out that there is no interest from the energy companies to decarbonise in practice and no willingness to contribute cost-wise
- Contracting principles are challenging as they do not incentivise the right party (i.e. who picks up the bill) and in the wider context it has been observed that EU regulations have made the EU market less attractive
- IMCA was tasked to start making efforts on advocating with clients on how to harmonise the process of tendering questions regarding decarbonisation and to standardise data collection across different clients.

- On a more corporate aspect and in terms of re-baselining, Allseas have seen this inside their organisation. They are waiting for 4 new vessels so it will affect their emissions.

#### 4.5 Session 4 – GHG Committee’s Roadmap

- The two main elements of the GHGC’s roadmap was the ToR, which was decided to stay as is and only invite marine contractors to the committee, and the role of the Board in the GHGC’s future
- It was agreed that IMCA’s Board should provide more clarity on the scope of the committee and define more effectively what should be the focus of the net activities.

## 5 Summary of action items

| No | Action                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Responsible | Target                                        |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------------------------------|
| 1  | Clean and tidy up the list of actions from previous meetings                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | NV/LB       | By next meeting                               |
| 2  | Re-check on GHGC / MPRA / ESC ToRs to ensure boundaries are clear, refresh GHGC ToR to reflect current IMCA bye-laws and preferred boundaries of committee. IMCA to draft revision and share for discussion at next meeting.                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | LB          | End April                                     |
| 3  | Scope down the relevant fuels for the next AFWG Meeting; consider those most relevant to the group / offshore fleet first. Be guided by engine / fuel TRLs.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | NV          | Action closed                                 |
| 4  | AFWG to firstly consolidate methodology and structure and then agree on timelines for deliverables.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | NV          | Action closed                                 |
| 5  | Norwegian ship owners and SINTEF have carried out a study on fuels for the offshore fleet – Arnstein to check and revert with details.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | AK / DOF    | Action closed – Nikos found the report online |
| 6  | Request (S7, DEME, Van Oord) to develop some sort of common understanding on how to report to MRV and ETS given uncertainty within European Commission, as well as IMO’s SEEMP. Discuss with MPRA and revert with proposal.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | GHGC        | By next meeting                               |
| 7  | The committee agreed that CSRD and relating topics was outside the scope of the GHGC and this will be communicated to the ESC etc.<br><br>ESC will be consolidating experiences with CSRD in their F2F meeting in June, so GHGC members can feed to their colleagues there                                                                                                                                                                                                                                                                                                                                                                                                                                 | LB          | By end of April                               |
| 8  | Offsetting – The topic was raised by Subsea7 which is addressing this subject as part of its strategy. However, the committee did not feel that this is a subject where there is value in collaboration at industry level for the moment.                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | None        | Action closed                                 |
| 9  | Draft a ToR for an Electrification WG; there are several themes: <ul style="list-style-type: none"> <li>• Knowledge sharing</li> <li>• Looking at safety issues and electrification on vessels and support operations across offshore sector</li> <li>• Operations on DP – hybrid systems</li> <li>• If relevant, informative guidelines for hybridisation including conversion (including risk that IMO may make some hybrid vessels non-compliant if regulations are developed different to those used today).</li> </ul> Full electrification (including those vessels powered by a shore cable) including: <ul style="list-style-type: none"> <li>- Ports not electrifying all berths / map</li> </ul> | LB & NV     | By end of Q2 2025                             |

|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                    |                                          |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|------------------------------------------|
|    | - Agenda item on shore power for next meeting                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                    |                                          |
| 10 | Map available batteries technologies and benchmark them against each other, creating a consolidated database                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | NV                                 | By end of Q2 2025                        |
| 11 | Organise a Vessel Efficiency event like the one in Amsterdam, bringing together suppliers and developers of technologies supporting digitalisation and emissions reductions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | LB & NV                            | Further discussions by next GHGC meeting |
| 12 | Explore the development of "Sustainability Safety Flashes"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | LB & NV                            | TBD in next meeting                      |
| 13 | Facilitate knowledge-sharing sessions for hull cleaning, hull coatings (antifouling), cleaning technologies, frequency, cost, fuel savings, propeller cleaning and efficiency coordinating with ESC as well                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | LB                                 | TBD in next meeting                      |
| 14 | <p>Gather a long list of technologies/behaviours/fuels/solutions under Operational Measures, Technical Measures and Alternative Fuels and compile a database/platform with relevant info such as energy savings and where they can apply to offshore vessels, operations etc.</p> <p>Map this against IMO categories of Behaviour, Technology, Fuels (suggested by Gerd).</p> <p>List will be taken as a base of discussion with the customers and help support case for EU funding requests (for the sector), and could cover:</p> <ol style="list-style-type: none"> <li>1. Suitability for different types of vessel and different sectors.</li> <li>2. GHG emissions reduction potential (materiality).</li> <li>3. Cost</li> <li>4. Experience sharing on any pilot projects or other testing performed by members.</li> </ol> | NV                                 | By end of Q3 2025                        |
| 15 | Explore the organisation of a workshop with biofuel suppliers                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | LB & NV                            | TBD in next meeting                      |
| 16 | <p>Draft an overview of different regulatory reporting standards and GHG accounting for biofuels - Invite experts to join this discussion potentially.</p> <p>JM to 'frame the problem', and then the Committee to evaluate which Committee this subject belongs to.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | S7 / John                          | TBD in next meeting                      |
| 17 | <p>Explore how to transfer the contractor's message on decarbonisation to the customers, including emissions on DP.</p> <p>Related, how to educate client base. Explore ways of educating customers on questions to ask, what's valuable and the challenges of quantifying emissions reductions for the purposes of tendering</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | LB/NV                              | TBD in next meeting                      |
| 18 | Can we develop a harmonised data provision (Allseas)? Explore standardisation of (GHG / emissions / fuel use) data collection across different clients and harmonise the tendering processes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | GHGC                               | Further discussions by next GHGC meeting |
| 19 | Share Maersk / ISOA decarb principles with committee and feed this back to action point 14.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | LB                                 | End April                                |
| 20 | <p>Other advocacy work required beyond client orgs:</p> <ul style="list-style-type: none"> <li>- Orgs in fuel supply chain</li> <li>- Ports and harbours (share data from survey - next meeting)</li> <li>- Marine engines (Eugène to check industry orgs for this sector)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <p>LB</p> <p>Boskalis / Eugène</p> | End Q2                                   |

|    |                                                                                                                              |      |                                                                                                                              |
|----|------------------------------------------------------------------------------------------------------------------------------|------|------------------------------------------------------------------------------------------------------------------------------|
| 21 | Check with Marine committee whether they engage with engine manufacturers                                                    | NV   | Action closed – MDMC is not engaging directly with engine manufacturers                                                      |
| 22 | Emissions baselining – agreed that this is not a topic for GHGC, but some info sharing may take place outside the committee. | None | Action closed                                                                                                                |
| 23 | Further engage with the board, understand their requirements and structure a more top-down approach                          | GHGC | Further discussions by next GHGC meeting  |

## 6 Date and location of next meetings

To be confirmed / agreed outside the meeting.

Signed as a true record

Name

Date