

Update on the work on Safe Decarbonisation

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ClassNK Member

2023 Tripartite meeting

Work through IMO (MSC 107)

IACS submitted two papers to IMO MSC 107 (31 May to 9 June 2023):

MSC 107/17/21	<p>Proposal for a new output to facilitate a regulatory framework to support the safe delivery of IMO's strategy on reduction of GHG emissions from ships</p> <p>Co-sponsored by : Belgium, Cook Islands, Germany, Greece, Kingdom of the Netherlands, Panama, Republic of Korea, United Arab Emirates, United Kingdom, ICS, IUMI, BIMCO, IACS, OCIMF, INTERTANKO, SIGTTO, IBIA and SGMF</p>
MSC 107/17/24	<p>Timeline and format of the road map for the safe decarbonization regulatory assessment to deliver the regulatory framework</p>

Work through IMO (MSC 107)

MSC 107 agreed to IACS proposals (co-sponsored and solo) and more.

The Committee agreed to the following new output:

“Development of a safety regulatory framework to support the reduction of GHG emissions from ships using new technologies and alternative fuels”.

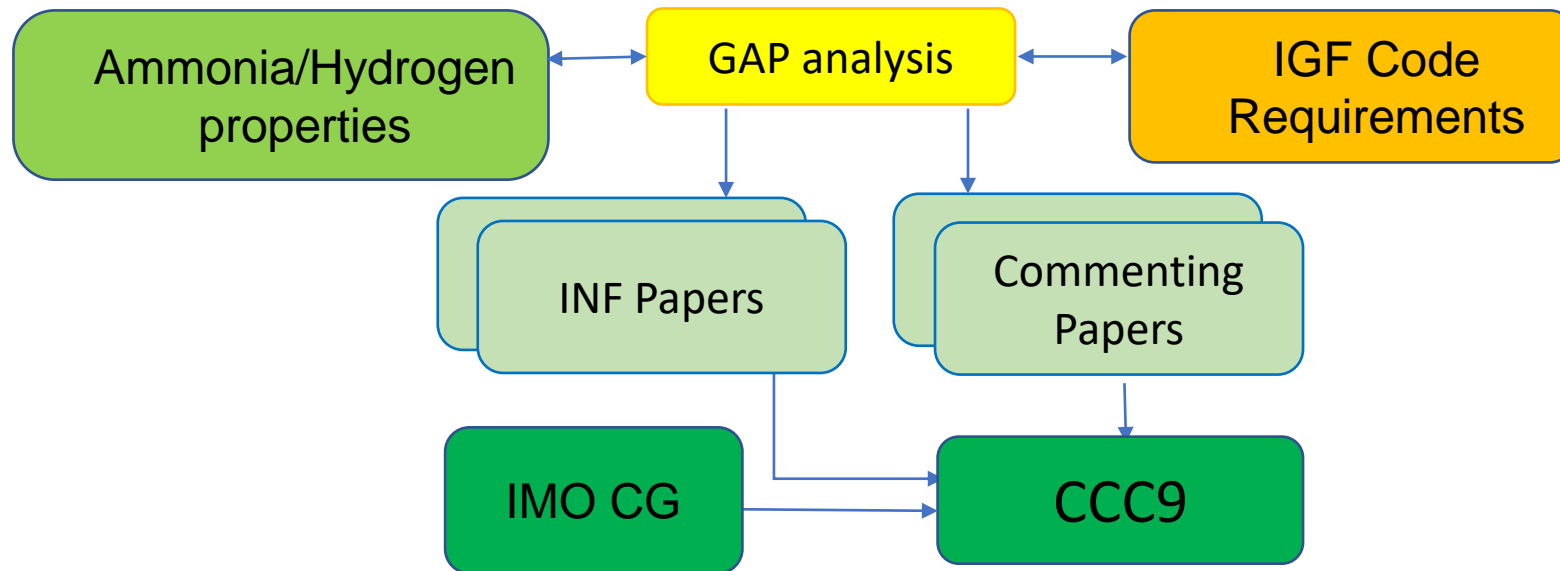
Correspondence Group (CG)

The work has been brought forward by a CG, coordinated by the United States and IACS participated thereto.

- IACS representatives: Dr. Suhas Vhanmane (IRS) and Mr. Qin Aohan (CCS)
- Kick-Off/Workshop meeting was held on **13 Oct. 2023**.
- Round 1 of CG was initiated. The deadline for Round 1 was **13 Oct. 2023**.

Work through IMO (CCC 9)

The PTs on AMMONIA and Hydrogen carried out GAP analysis in respect of IGF Code requirements, and their outputs have been supplied to the CCC9 for information and consideration:



IACS actively took part in the IMO Correspondence Group on the development of Technical Provisions for Safety of Ships using Alternative Fuels , via the Project Team Mangers of the PTs for Hydrogen and Ammonia.

Work through IMO (CCC 9)

IACS SUBMISSIONS TO CCC9
re: Ammonia and Hydrogen as fuel

- CCC 9/3/4 Experience gained with the Interim Guidelines on Fuel Cells
- CCC 9/3/14 Comments to the Correspondence group report (Ammonia)
- CCC 9/3/15 Comments to the Correspondence group report (Hydrogen)
- CCC 9/INF.16 Gap analysis between ammonia as fuel and the IGF Code
- CCC 9/INF.17 Analysis of gaps of the IGF Code for the use of hydrogen

JIWG on Technology Readiness Levels (TRLs)

WG's inaugural/kick-off meeting held on 11 May 2023 in virtual mode.

The meeting led to proposal for revision of ToR accounting input/concerns received from the members.

With reference to the revised TOR, the JIWG focused on

- **First priority items:**
 - Regulatory and safety gap analysis of fuels / technologies except Hydrogen, Ammonia, Carbon Capture and Batteries for which the IACS SDP analyses can be used.
- **Second priority items:**
 - Advise on the implementation issues associated with various technologies/fuels that may be employed to reduce emissions.
 - Forecast when solutions may be developed for the implementation issues identified above.
 - Advise where/what regulations should be developed to support these emerging technologies (gap analysis).

JIWG on Technology Readiness Levels (TRLs) (continue from previous slide)

EUROMOT accepted JIWG Chair's request to consider joining the JIWG and provided nomination to join the JIWG.

The 2nd meeting was held [on 06 Oct. 2023](#) in virtual mode. In this meeting;

- Revised TOR was accepted.
- The tentative structure of the work items and delivery timeline
- Draft text on Technology Readiness Levels (TRL) and its relevancy to maritime decarbonisation was presented by the chair to the JIWG for consideration by the members for input, suggestion and approval

JIWG on Decarbonization

Convene a Joint industry working group (JIWG-Decarb):

- The TOR of the group were drafted by the Panel.
- It was agreed that the main scope of the Group would be to discuss and develop a common understanding for Safety Aspects of decarbonizing technologies and fuels, including the possible solutions to identified challenges and relevant regulatory needs.

Activities by Project Team of SDP

(For Unified Requirements)

The PTs on ammonia and hydrogen have been recently tasked to:

- Develop UR on design and testing of ammonia treatment systems
- Develop UR on materials for use with hydrogen and relevant testing
- Develop UR on Type C tanks and swappable containers for hydrogen

(New Project Team)

- A new PT has been recently convened to develop an UR or Recommendation on gas dispersion analysis

תודה
Dankie Gracias
Спасибо شكراً
Merci Takk
Köszönjük Terima kasih
Grazie Dziękujemy Děkojame
Ďakujeme Vielen Dank Paldies
Kiitos Täname teid 谢谢
Thank You Tak
感謝您 Obrigado Teşekkür Ederiz
Σας धन्यवाद 감사합니다
Bedankt චූභතන
Děkujeme vám
ありがとうございます
Tack