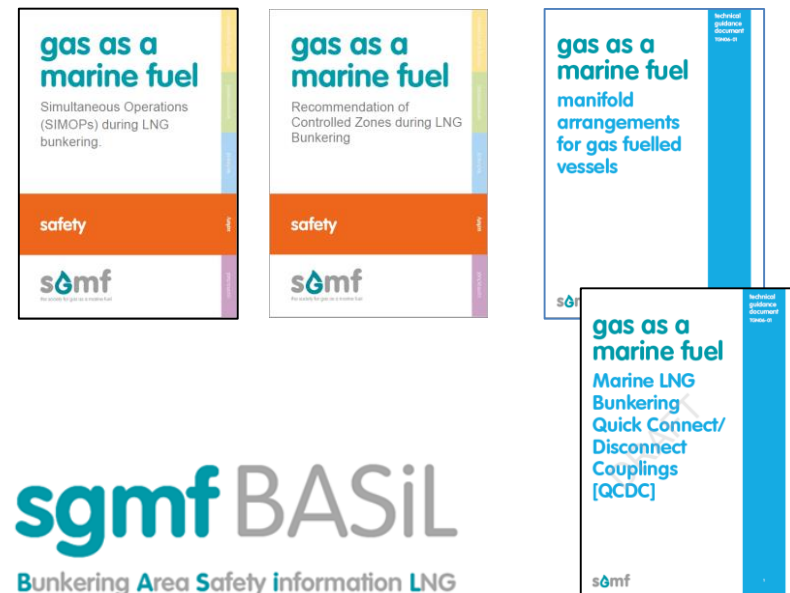


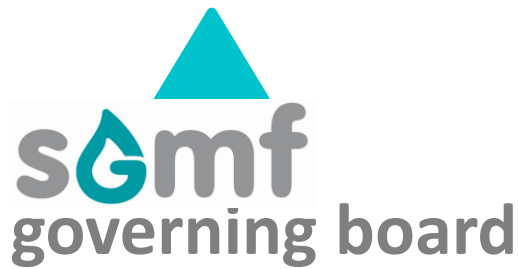


**5th Session of the Group of Gas Experts
Geneva
Weds 21st March 2018**

- Formed in 2013 – Membership based NGO
- 127 members – growing steadily
- Governed by Board [24]– now representing almost all sectors and geographies
- Technical Committee – (General) but currently considers/addresses all issues
- Environmental Committee (new)
- Currently 5 Active Work Groups
- Secretariat of 4
- +2 new formal publications due in 2018
- 2018 SeaChange programme



sgmf BASiL
Bunkering Area Safety information LNG



sgmf governing board

24 Individuals representing all Sectors and Geographies



24 + 7 Individuals representing most sectors



Currently 7 live work groups av 12 individuals in each, often specialists both from members and academia



WG 1&7 Bunkering Procedures
WG 3.0 Salvage Procedures
WG 5.0 Quality and Quantity

WG 2.0 Safe Working Distances
WG 4.0 Training and Competence
WG 6.0 Essential Functional Requirements
WG 6.1 QCDC Standard Design
WG 6.2 Control System and ESD Requirements
WG 6.3 Flexible Hoses
WG 11.0 & 12.0 Emissions, Slip, Performance

WG 8.0 SIMOPS

why us		our mission	
 121	No. of Members	 8	No. of Groups
 119	LNG fuelled ships in operation	 118	LNG fuelled ships on order
 46	Ports supplying LNG fuel	 2	Incidents
 63	Literary resources	 7	Publications
 6	Vessels supplying	 22	SGMF Activities

Leading the industry using our collective knowledge and experience to help and provide insightful guidance for safe and responsible use of gas as a commercial marine fuel.



Six Key Areas of Activity

ENVIRONMENT

- Emission facts LCA Study
- ECA development
- Alternative fuels
- Ship performance
- Dual Fuel Engine Performance
- Methane Slip

INFORMATION

- Port Listing: LNG Bunkering
- Ships in operation
- Ships under construction
- Project Listing
- Incident recording

TECHNICAL

- LNG Bunkering : Essential Functional Requirements (All Components)
- Leak detection
- Tank Location on Gas Fuelled Ships

SAFETY

- LNG Bunkering : Systems and procedures guidelines
- Safe Working Distances
- Salvage principles
- Risk assessment application
- Simultaneous Operations
- Commissioning of Gas Fuelled ships

Training & Competence

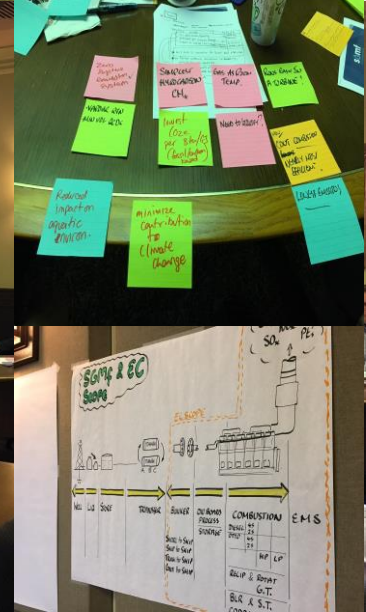
- Competency Standards
- Courses – Gas as Fuel
LNG Bunkering
- Establishment Accreditation
- Experience recording

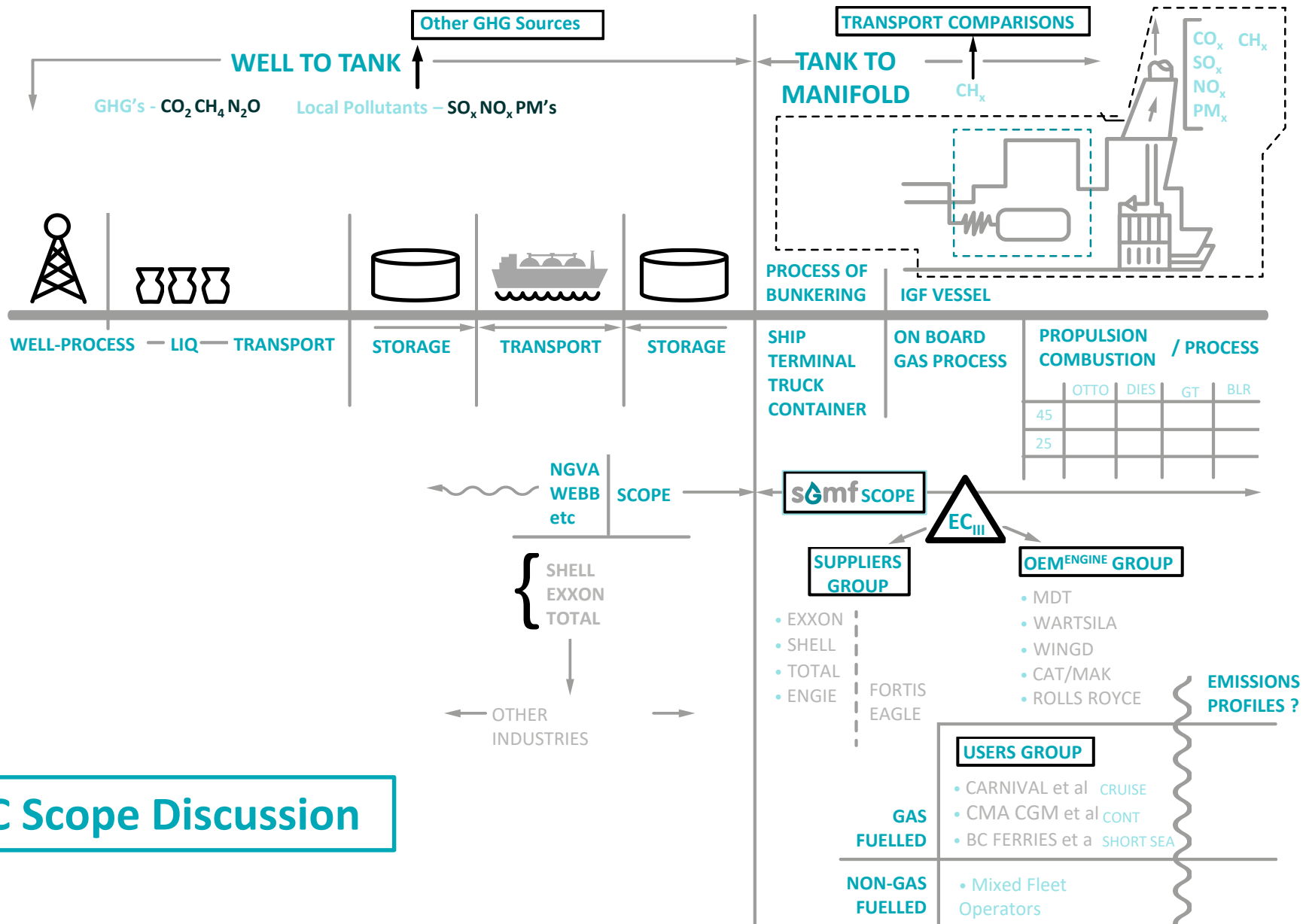
CONTRACTUAL

- Quality and Quantity Guidelines
- Commercial agreements
- Measurement
- Standard Contracting
- LNG Fuel Standard

Environmental Committee Update

- ECIII London Feb 2018
- Natural Gas Pathways analysis for vehicles – Energy Tech Institute
- IGU report 2017
- Elsevier Journal – Assessment of full Life-Cycle air emissions of alternative shipping fuels Oct 2017
 - IMO Carbon reduction mandate – April 2018 proposal choices
 - PacRim Group Zero Carbon by 2035
 - Belgium 70% reduction by 2050
 - Japan – Alt fuels by 2030
 - allows 50% reduction by 2050
 - ICS - keep below 2008 Max levels





EC Scope Discussion

SGMF TC /EC and Work groups

Work Group	Publication	Status
1 Bunkering Guidelines	See 7	Closed
2 Safe Working Distances	TGN02-01	Due Spring 2018 with BASiL tool
3 Salvage of IGF vessels	TGN03-01	Closed — Published
4 Training and Competence	FP03-02	Closed — Published (Training SG forming for LGHP-IGF vessels)
5 Quality and Quantity	FP04-01	Closed — Published
6 EFR - Bunkering	FP06-01	Active Due 2018 (sub group TGNs published)
7 Bunkering Guidelines	FP01-02	Closed — Published
8 SIMOPS	FP08-01	Active – Ready to publish
9 Engines and Methane No	/	New WG 9.0 under TC
10 DD of IGF Ships	TGN	New WG 10.0 under TC
11 WtW Emissions	/	SG 11.0 Steering group for augmented study on LCA and WtW
12 Propulsion Emissions	/	WG 12.0 Engine OEM's

we sea change, do you?