

Technical Study Groups



INTERNATIONAL GROUP
OF LIQUEFIED NATURAL GAS IMPORTERS

General News from TSG

- Technical Group includes **49 members**, with
 - ✓ 20 active companies ('Core team')
 - ✓ 51% from EU / 13% from Americas / 35% from Asia-Middle East
- Recent changes in the **TSG representation** :
 - ✓ New members joining the 'core team': South Hook LNG, Singapore LNG, MOL
 - ✓ More members with a shipping/FSRU experience
- The TSG is also actively **participating to other LNG initiatives**. In 2024 :
 - ✓ Support to the GIIGNL MRV and GHG Neutral LNG Framework
 - ✓ GIE & UNECE workshops on GHG emissions
 - ✓ Annual European Terminal Manager Meeting (FSRU LNG Croatia)



Activities on SAFETY

Safety is the 1st topic on TSG AGENDA

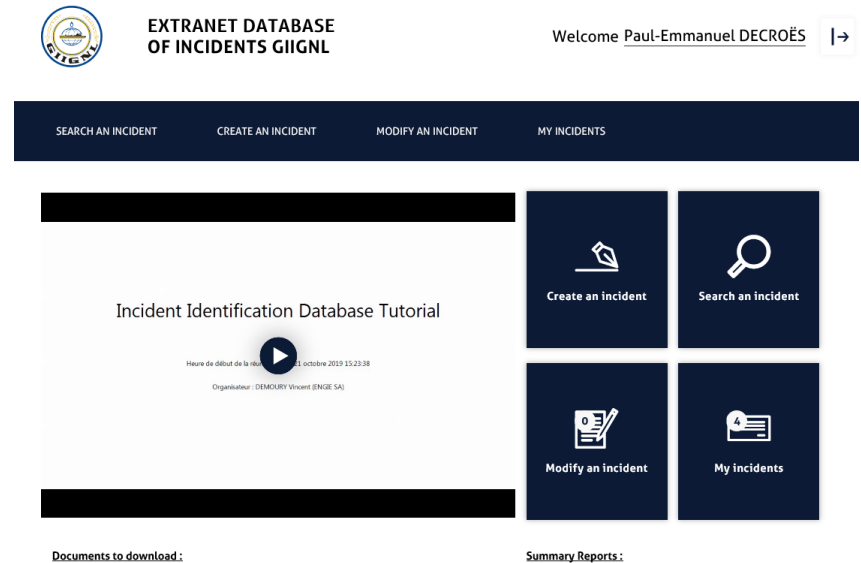
- **Safety Database (Pilot ELENGY)**

- ✓ Review of the new incidents reported in the data base
- ✓ Debate on recent incidents or a near-misses. If required,
 - incidents are further analyzed by a dedicated team
 - safety alerts are distributed internally/externally

- **Safety Guidelines**

When there are lessons to be learnt / needs to remind the safe practices, TSG is preparing safety guidelines:

- ✓ Guidelines for designing/performing a safe ship re-loading
- ✓ Safety recommendations on truck (un)loading and LNG transport



Members are invited to report safety incidents, for the benefit of the community

Activities on ENVIRONMENT

Environment is the 2nd topic on TSG AGENDA

- **Guidelines to manage Methane emissions (Pilot GATE)**
 - ✓ TSG developed a generic document giving a methodology to reduce emissions (published in 2022)
- **Working group dealing with CO2 emissions (Pilot Dunkerque LNG)**
 - Questionnaire circulated : general survey on CO2 emissions from the regasification terminals
 - Case studies implemented to reduce GHG emissions (H2 for flare pilot, reduce electrical consumption, cold synergy..)
- **Other works on emissions**
 - ✓ Feedback from the companies using the GIIGNL framework and development of a data base for primary data
 - ✓ Discussions on the new EU regulations to reduce CH4 emissions (restrict venting & flaring – flare efficiencies..).
- **Close contact with the other gas organizations working on the same subject (GIE, SIGTTO, SGI/SGMF...)**



Activities on HSE / O&M

Health & Safety / Operation & Maintenance are the 3rd topic on TSG AGENDA

- **HSE exchange between members (e.g.)**
 - ✓ Technologies to reduce leaking flanges (South hook experiences)
 - ✓ High Potential HSE incident on falling pieces from (un)loading LNG arms
- **Operational and Maintenance exchanges between members (e.g.)**
 - ✓ Composition problems on the whole LNG chain caused by some US LNG (too much C6+..)
 - ✓ Regular collapses of 10" LNG cryogenic hoses used in STS ;
 - ✓ Procedures for Tank Safety Valves (re)calibration (Fluxys experience) ;
 - ✓ Single Point of Failure analysis (SLNG study) ;
 - ✓ Upgrades of old pump electrical feed-through (Grain experience) ;
 - ✓ ...etc



New subjects for TSG?

TSG always calls for new topics

- **Currently on the table:**
 - ✓ Potential Roll-over in FSU/FSRU (Pilot Shell)
 - ✓ Position paper on new gases (H2, Bio-LNG, E-LNG..etc)
- **Any other technical subject to propose? Contact Paul-Emmanuel DECROES and Central Office**

