

LNG bunkering

Licensed system

Port of Antwerp–Bruges aims to become a **Multi Fuel Port** by 2025, a port where in addition to conventional fuels, alternative, more sustainable fuels can also be made available. The bunkering of (Bio-)LNG in Port of Antwerp–Bruges is already possible via a licensing system. This system is based on criteria defined by the Harbour Master's office and international guidelines such as International Association for Ports & Harbors (IAPH).

Today, the provision of bunkering services for (Bio-)LNG is already available at our port. We can offer guidance and consultation from our safety experts and our Harbour Master throughout all phases of the process.



First step

Request a bunker license

Only licensed bunker operators are allowed to do bunkering operations in Antwerp & Bruges. The licensing process is based on [IAPH's Audit tool](#). More information about the licensing system can be found on:

- [Antwerp](#)
- [Zeebrugge](#)



Second step

Contact the Harbour Master's Office to request your operation

In Antwerp:

All requests for LNG bunkering operations must be made at the Harbour Master's Office, with a minimum of 72 hours notice before the operation (excluding Saturdays, Sundays and holidays). Applications must be submitted via [TOOL](#)

In Zeebrugge:

All requests for LNG bunkering operations must be made at the Harbour Master's Office, with a minimum of 72 hours notice before the operation (excluding Saturdays, Sundays and holidays). Applications must be submitted via [ZEDIS](#)

LNG bunkering is not permitted everywhere, more information can be found on the [bunkermap](#). This map shows where LNG bunkering activities are allowed in Antwerp & Zeebrugge.



Third step

Provide complete documentation

The following information must be provided to the Harbour Master's Office:

General information

- Name & license number of the **bunkeroperator**
- Name & license number of the **bunker vessel**
- Contact details of the **receiving terminal**
- **Type** of bunkering (STS/TTS)
- **Date & Time**
- **Location & approval** of the terminal
- **Max volume** to be transferred

Procedures

(Documentation should be prepared for every operation, checks by port authority can be done at any time)

- **Compatibility Study*** (supplier and receiver)
- **Bunker Management Plan**
- **Joint Plan of Bunker Operations**** (JPBO), including the subjects as per IAPH Bunker Checklist Guidance, of which:
 - Description of the transfer system (P&ID)
 - Description of the safety systems
 - Location plan
 - Analysis of the safety zone
 - SIMOPS analysis (if applicable)
 - Mooring analysis
- **Emergency procedures**

* **Compatibility study:** Full assessment of the compatibility between the parties involved in the bunkering as per IAPH Guidance integrated in the Bunker Checklists, considering all relevant technical and operational details, including transfer parameters, related to the specific operation.

** **Joint Plan of Bunker Operations (JPBO):** Comprehensive summary as per IAPH Guidance integrated in the Bunker Checklists, also based on the compatibility study, containing all key details of a bunkering operation between specific parties on a technical, safety and operational level, proving alignment of all parties involved.



Fourth step

4 Terms & conditions

The following terms and conditions must be adhered to and the Harbour Master reserves the right to impose additional requirements at any time:

- It is mandatory to use the **IAPH Bunker Checklist Liquefied Gas Series**. More information can be found on [LNG bunkering – World Port Sustainability Program \(sustainableworldports.org\)](https://sustainableworldports.org)
- A minimum **safety zone of 25m** must be applied.
- **Additional monitoring** of bunker operations between all parties involved is mandatory during following weather conditions:
 - **Wind speeds** consistently exceeding 17 m/sec (7 Beaufort) for a duration of 10 minutes or longer.
- Bunker operations must be stopped during following **weather conditions**:
 - **Visibility** less than 100 m;
 - Thunderstorms and electrical **storms** within a 10 km radius (± 30 seconds between lightning and thunder).
- It is mandatory to ensure that bunker operations are conducted under full consideration of all **safety and environmental aspects**. In case of negligence or doubt, the Harbour Master can order the operation to be stopped immediately.



In case of **emergency**, please contact:

In Antwerp:

Port Authority Supervisor
Phone number **+32 32 29 67 33**
or VHF channel **63**

In Zeebrugge:

Lock Master (Inner port)
Phone number **+32 50 54 32 31**
or VHF channel **68**

Port Control (Outer port)

Phone number **+32 50 54 32 43**
or VHF channel **71**

IAPH Checklist

One of the main objectives of the Clean Marine Fuels Working Group is to create harmonized bunker checklists for known bunkering scenarios. These checklists reflect the extra requirements of ports with regard to bunker operations of alternative marine fuels in or near their port environment. By using bunkering checklists, a high level of quality and responsibility of the bunker operators can be obtained.