



# CORE LNGas hive

A more sustainable  
transport

[www.corelngashive.eu](http://www.corelngashive.eu)

 @core\_lngashive



COORDINATOR

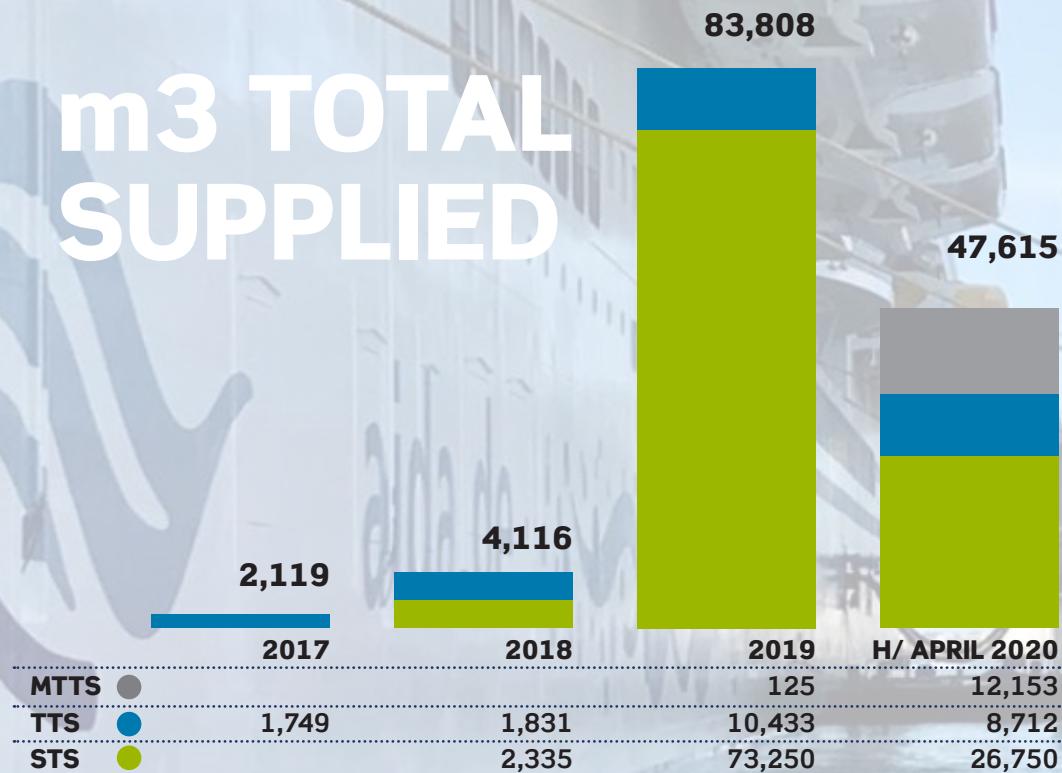


Co-financed by the European Union  
Connecting Europe Facility



**Newsletter**  
**N° 11**  
**May**  
**2020**

# m3 TOTAL SUPPLIED



## LNG bunkering operations increase in 2019-2020 supported by CORE LNGas hive and LNGhive2 developments

During 2019, Spain has positioned itself as a reference in the supply of liquefied natural gas (LNG) to ships. This achievement has been strongly supported by the development of the

CORE LNGas hive project, LNGHIVE2 and other initiatives, in addition to Spain geostrategic position and the strength of its infrastructures. Spain is the country in Europe with the highest

number of LNG terminals and is undertaking a continuous process of adapting them to supply ships with this energy source.

In 2019, a total of 195 operations to supply liquefied natural gas (LNG) as fuel to ships (bunkering) were carried out in Spanish ports (a total of 81,704 m3 of LNG was supplied). This figure represents more than three times the increase reached in 2018, when 60 operations were carried out with a total supply of 4,504 m3. Furthermore, until the end of April 2020 bunkering operations have increased by a factor of 5.6 (185



▲ Bunkering TrucktoShip Balearia. Puerto Huelva



▲ Oizmendi Bunkering Vessel reloading LNG in BBG (Small Scale operation)

operations) and the volume supplied has doubled (47,615 m<sup>3</sup>), compared to the same period of the last year. These operations have been mainly for ship cruises: Aida Nova, Costa Smeralda and Balearia Ro Pax: Abel Matutes, Hypatia de Alejandría, Marie Curie and Nápoles. LNG bunkering in Spain is becoming more flexible and efficient, responding to the growing demand for operations, through truck, ship and plant supply solutions.

It is, thus, joining the portfolio of alternatives for attending to LNG consumption, not only for ships, but also from land-based modes that converge at the port, as is the case with railways.

Thanks to the CORE LNGas hive project, LNGHIVE2 and other private initiatives derived from the development of these projects (that have carried out the adaptation and new construction of LNG-powered ships - actively supported from the ports) around 2 million tons of CO<sub>2</sub> will be reduced in the maritime sector during the next ten years.

As an example, the CO<sub>2</sub> reduced by one LNG cruise is equivalent to removing from circulation 20,000 vehicles performing 10,000km per year. Large ports like Barcelona are already benefiting from LNG ships and cruises that dock there, improving the air quality of both the port and the city.



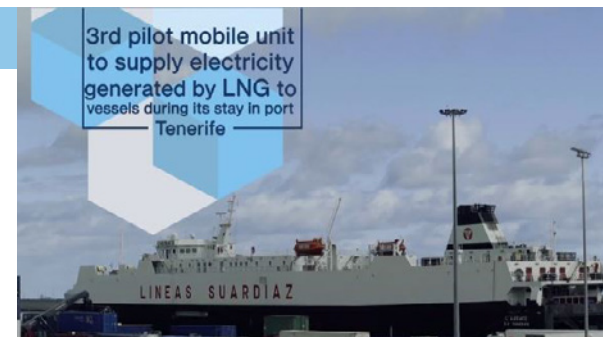


▲ **Guillermo López** from **CORE LNGas** hive coordination office at **Poseidon Med II** event, February 2020.

## Dissemination, communication and events

COVID-19 crisis, which has engulfed nearly the entire world and carries severe consequences for countries' populations and economies, has affected the developments foreseen within CORE LNGas hive project for this year. The most important issue nowadays for Enagás, as project coordinator, is the well-being of all partners and health security. Furthermore, different ports of Spain are semi-closed or working in the minimum scale to provide requested services and goods. CORE LNGas hive developments foreseen, not being essential, have been stopped, affecting the tugboat powered by LNG built in Bilbao and the straddle carrier retrofit of Barcelona Port. Moreover, the second pilot test of multimodal transport for LNG logistics supply chain by Rail/road and sea that was foreseen for these months has been postponed.

During the first months of 2020, CORE LNGas hive participated, as forecasted, at the following events: "LNG: A Compass for Sustainable Shipping in Eastern Mediterranean", Piraeus Annual Conference of Poseidon Med II project, Greece,



26th of February; Gasnam webinar on LNG bunkering, 14th April and Sedigas Webinar on the future of LNG bunkering, May 6th.

Furthermore, during the following months of 2020, CORE LNGas hive has been invited at the following events: MEDports Association Technical Seminar: "The Ports contribution to a greener global transport network in the Ports-Cities", 4-5th March Algeciras (cancelled); Green Gas Mobility Summit/Gasnam Congress (April) postponed to 22-23 September (could be on line); Green Energy Ports Conference, Vigo, 16-18 June and Madrid LNG Shipping Forum, postponed to November.

Events proposed for this year are indeed pending on final decisions taken by the EU and the Spanish authorities, however we continue feeding the project website. We keep on the coordination efforts, as such, the Steering Committee was organised on line, May the 8th, posting the video of OPS project in Tenerife in the website and working on the project as much as possible.





# LNGhive2 Strategy

LNGhive2 Strategy, is the new umbrella approved by Puertos del Estado with the aim to continue the adaptation process for infrastructure to supply LNG to transport services and the newbuilding and retrofitting of transport assets in Spain. It is carried out through various CEF

co-funded actions that are part of the Spanish LNGhive2 flagship initiative for the LNG marine fuel market development in southern Europe, approved in 2017 and 2019.

This strategy, defined under the CORE LNGas



hive Action and framed under the LNG section of the Spanish National Policy Framework on the deployment of alternative fuels in transport, includes logistics and demand. Up to date three projects have been approved (a total of € 23 M cofinanced from € 118 M budget) and four more have been presented to the new 2020 CEF call, (requesting € 46 M of cofinancing from €230 M projects budget.)

LNGhive2 INFRASTRUCTURE AND LOGISTIC SOLUTIONS aims at enabling the Iberian Peninsula to offer holistic solutions to the new requirements of the shipping and rail sector adapting the LNG regasification plants in Huelva that has already started and Valencia to offer LNG bunkering and small scale services, building a new LNG bunkering barge that will provide LNG bunkering services and introducing LNG fuel in a maritime-rail green corridor between the core maritime Port of Huelva and the dry port of Sevilla, including LNG supply services. The installation of a multi-truck to ship system to provide efficient LNG bunkering services in Huelva port has already started.

The LNGHIVE2 VESSELS DEMAND Action will boost the Spanish LNG fuelled fleet by retrofitting 5 ROPAX ferries by Baleària, vessels to dual-fuel, and the construction of a LNG supply station and a Multiple-Truck-to-Ship (MTTS) system in the

Port of Gijon which will be deployed in the Mediterranean and Atlantic corridors. It aims to create the market base for the roll out of bunkering services by boosting liquefied natural gas (LNG) fuel consumption and enabling the use of LNG on-shore and on-board for maritime transport and port operations.

LNGhive2 Santander, approved in CEF call 2019, is carried out in the Port of Santander located on the TEN-T Comprehensive Network. It aims to build a LNG bunker supply terminal and the necessary infrastructure to allow the berthing of the LNG fuelled vessels. The Action will realise the studies to obtain the permits for the terminal construction. A new dock will be built, including a Ro-Ro ramp. For the LNG terminal, engineering, civil works, equipment installation and commissioning are foreseen. Training of the personnel of the port is planned. Main benefits will be in terms of sustainability of maritime transport, safety and security of supply.



## NEW CEF 2020 PROJECTS

The following projects have been presented to 2020 CEF call:

- ▶ **LNGHIVE2 Barcelona:** An efficient LNG Bunker barge (5,000 m<sup>3</sup>) in the port of Barcelona
- ▶ **LNGHIVE2 Algeciras:** A Flex LNG bunkering facility in the port of Algeciras Bay (12,500 m<sup>3</sup>)
- ▶ **LNGHIVE2 - POWER SUPPLY & LNG BUNKERING, Balears:** Multi product bunkering barge, Cold Ironing, LNG for vessels and trucks
- ▶ **LNGHIVE2 Bilbao:** Development of LNG bunkering infrastructure in Bilbao, a strategic port in the North of Spain (1,000 m<sup>3</sup>)
- ▶ **LNGHIVE2 vessels demand:** Completing green links (Balearia).
- ▶ **LNGHIVE2 FRS:** Promoting energy transition and sustainable transport freight in the strategic area of the Gibraltar Strait



# CORE LNGas hive

A more sustainable  
transport

[www.corelngashive.eu](http://www.corelngashive.eu)

## TARGET 1

Push forward the process of decarbonization in the Iberian Peninsula

## TARGET 2

Contribute to the reduction of pollutant emissions in shipping

## TARGET 3

Promote LNG as maritime fuel within maritime and natural gas industry

## TARGET 4

Increase Iberian LNG sector visibility at European level

€46M

financial support  
requested new 2020 CEF call  
and pending

€39M

financial support  
from the European Commission

€151M

project budget  
€230M project budget presented  
in CEF 2020

49

8 public partners  
13 port authorities  
28 industrial partners





COORDINATOR



Puertos del Estado



If you want to regularly receive  
this newsletter subscribe by clicking here

