



# CORE LNGas hive

A more sustainable  
transport

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COORDINATOR



Co-financed by the European Union  
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## Newsletter N° 10 February 2020

# Events and IV CORE LNGas hive Conference

**The IV CORE LNGas hive Conference, “Bunkering LNG: decarbonisation and maritime sustainability”** took place in Gijón last November 27th. The aim of the event was to keep promoting liquefied natural gas (LNG) as the most sustainable fuel in the transport sector, particularly in shipping.

According to the experts gathering in Gijón, LNG is, today, the only real and sustainable alternative to move forward in the decarbonisation of maritime transport.

Compared to other conventional fuels, LNG almost completely eliminates sulphur oxides (SOx), between 80 to 90% of nitrogen oxides (NOx) and between 20 to 30% of CO2 emissions. All this helps to comply with the increasingly strict environmental standards in the maritime sector and to advance in the process of decarbonisation of the Mediterranean and Atlantic corridors, in line with the European Union



strategy on alternative fuel infrastructures (Clean Power for Transport).

This initiative enabled adapting the Spanish regasification plants for LNG supply of ships, including real life pilots of supply barges, tugs, cranes and an LNG powered electric generators, among other developments. Thanks to this project, the LNG bunkering volume in Spain reached, during 2019, 81,704 m3 (in 2018 it was 4,504 m3). Furthermore, 195 bunker operations took place in Spain in 2019, compared to 60 bunkering operations that took place in 2018.

In the Conference presentation, the Chairman of Spanish Ports Authority, Salvador de la Encina, stressed, “the commitment of Spanish ports, as infrastructure managers, is to work

on guaranteeing the supply of LNG in our ports in an efficient and safe way and to facilitate the development of the market over the next decade. And we will continue to support projects that enable LNG to be supplied at a competitive price that favours the achievement of stable supply agreements between traders and shipping companies”. He added that “we will continue to work on regulating the service to provide a suitable framework for the development of the LNG supply activity in our ports”.

The presentation also featured participation from the Director General of Energy, Mining and Reactivation of the Principality of Asturias, María Belarmina Díaz, and the Chairman of the Gijón Port Authority, Laureano Lourido, who pointed out that “Gijón Port is set to play a major role in the

development of sustainable maritime transport”. Lourido added, “We have been working on this for some time now, we have adequate infrastructures, as well as the capacity and resources to turn what is today a firm commitment into a reality as expeditiously as possible”.

Along these lines, the CEO of Enagás, Marcelino Oreja, pointed out that “LNG is the only existing option to decarbonise heavy transport, especially maritime transport, in order to meet the greenhouse effect emission reduction targets for 2030 and 2050”. In this regard, he stressed, “Our LNG plants are pioneers in bunkering and ship refuelling”.

Adolfo Utor, the Chairman of Balearia, committed to the use of LNG in its shipping fleet, also participated at the Conference.

Furthermore, Carlo Coppola, Project Officer of the Innovation and Networks Executive Agency (INEA), which manages the European Commission's transport and, energy and programmes, shared the view from the European Commission and the support given to this project and its follow up LNGHIVE2. Representatives of other European projects supporting sustainable mobility similar to CORE LNGas hive project such as Poseidon MedII, Gainn and Samuel LNG also participated as speakers.



## Peer to peer workshop and INEA project officer site visit

On November 26th, Carlo Coppola, INEA project officer, and Fernando Impuesto and Jose Enrique Murcia, Enagás coordinators, visited the adaptation of Mugardos LNG Terminal with Reganosa at El Ferrol. The aim of this activity that will be finalised during 2020 is providing LNG bunkering and small-scale services in Galicia. Afterwards, a Peer-to-Peer workshop has been organised at El Musel (Enagás LNG Terminal in Gijón) with representatives of the European projects supporting LNG developments in Spain, France, Italy and

Greece. The workshop, the 1st organized in the framework of CORE LNGas hive and that counted with representatives of the CEF funded projects Poseidon MedII, Samuel LNG and Gainn as well as INEA, represented a unique opportunity for exchanging best practices and lessons learned. The main outcome of the workshop was the commitment of exchanging information among the projects. Furthermore, a proposal for developing a joint roadmap to boost the use of LNG as a more sustainable fuel in sea transport was agreed and enhancing follow up meetings. Even collaboration for future CEF funding projects.



## OPS pilot and LNG Conference in Tenerife, 15 and 18 November

The third electric connection to a vessel from a dock using an engine powered by natural gas took place in Tenerife in November 18th. The pilot, part of the CORE LNGas hive project, coordinated by Enagas, leaded by Puertos del Estado and co-financed by the EU was a complete success, such as the previous ones. The objective of developing and testing this technology is to reduce emissions from vessels while docked at ports.

The event took place in Tenerife with representatives of the Port of Barcelona, Flota Líneas Suardíaz, Siemens Business Engine and Ham.

The objective of the project is to reduce the emissions that ships make during their calls in ports by replacing the operation of the auxiliary engines of the ship with mobile LNG units that provide electricity to the ship. The promotion of liquefied natural gas (LNG) as an alternative fuel for ships, trucks and land machinery is one of the most outstanding initiatives of the several Ports in Spain.

The OPS pilot is the result of a project led by the Port of Barcelona and framed within CORE LNGas hive initiative. The development included the design, construction and commissioning of a mobile electric gas generating unit; a mobile unit that contains two deposits of liquefied natural gas (LNG) and one gasifier; and the adaptation of the electrical connections and the control panel of the in which the pilot tests take place.

The Port of Tenerife organised also a conference on LNG as the fuel for maritime transport with partner representatives and Enagás as coordinator in November 15.



# LNG advanced training requirements and vocational programme

On 26 December 2019 the CORE LNGas hive Project delivered a definition of the training requirements and accreditation path for the training defined, giving a proper response to the necessity of having a properly trained personnel for the different activities carried out for the use of LNG as fuel in the transport sector.

The deliverable was produced by a consortium led by the Polytechnic University of Madrid and with active participation of Enagás, Reganosa, Sasemar and the University of Santiago de Compostela.

The document defines a training proposal both at operational and management level, not only for LNG bunkering activities, but also for satellite plants, LNG stations and railway operations, in all cases proposing competences and evaluation method. It also defines an accreditation path, which includes the training programme proposed and the accreditation of previous professional experience, aiming at regulating specific professions related to the use of LNG as fuel in the transport sector.

As a result of the definition of the proposal made in the deliverable, the definition of a new professional qualification is underway with experts coming from Project partners in the frame of INCUAL – The Spanish Institute for Professional Qualifications.





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## 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

€16.65Mn

financial support from the European Commission

€33.3Mn

project budget

42

partner entities from Spain and Portugal: 8 state-owned institutions, 13 port authorities; 21 industrial companies





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