



# CORE LNGashive

A more sustainable  
transport

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COORDINATOR



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## Newsletter N° 5 1Q 2018

# Mid Term Review by CORE LNGas hive project officer



During 15th, 16th and 17th of January 2018, Core LNGas hive project Officer, Carlo Coppola, carried out a Mid Term Review in Spain. It was organised in order to check the status of some pilot studies in situ. Enagás, as coordinator of the project, proposed the agenda (which included Bilbao, Valencia, Sagunto and Cartagena) and accompanied the Officer.

The first day, on January 15th, the locations visited were in Bilbao. The main partner of the activities in the region, EVE, was in charge of the visit. The projects carried out in Bilbao were: the

adaptation for LNG small scale services in big scale jetty that is completed; the Oizmendi barge retrofitted for LNG bunkering which is equipped with two 300 m3 LNG tanks and it is nearly completed (tests will be shortly carried out); the construction of a new LNG powered tugboat by Remolcadores Ibaizabal, currently in the engineering phase; and finally, the construction of a new multiproduct barge (C-787) with two 100 m3 LNG tanks.

The following day, on 16th of January, Fundación Valenciaport was the host in the Valencia area

visit. The reviewed projects were the already finished study of the adaptation for LNG bunkering/small scale services in Sagunto; the study of a tugboat powered by LNG; and the construction of an LNG/CNG mixed station for vehicles and small boats that is currently under definition.

The last day of the review, 17th of January, was focused on the project located in Cartagena. This action aimed to adapt a dedicated mooring jetty (P-2) for bunkering/small scale services.

# Save the date



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## March 23rd, 2018 (from 10 am to 2 pm)

**2nd CORE LNGas hive Conference**, in the framework of Feria de la Energía de Galicia, where you can also visit our stand from March 22nd to 24th.

**Feira Internacional de Galicia Abanca**  
Recinto Ferial S/N  
E-36540, Silleda – Pontevedra



## CORE LNGas hive events and participation in events of the sector

The next CORE LNGas hive event implementing the communication plan approved by all partners will take place in Galicia at the Feria de la Energía de Galicia in Silleda on Friday, March 23. The II CORE LNGas hive Conference, a looking-forward event that will underline the benefits of liquefied natural gas (LNG), as a sustainable transport fuel, especially for the maritime sector.

CORE LNGas hive is presented in all the events that take place in Spain, Portugal and Europe, where any partner of the project is invited. The following events have been identified for 2018: Small-Scale LNG Summit, Milan (20 February); VI Gasnam, Madrid (11- 12 April); Green Maritime Forum, Hamburg (23 – 24 April); 3rd International LNG Summit, Hamburg (25-26 April)

Furthermore, other important conferences of the sector include TEN-T days in Ljubljana, Slovenia (April 26-27) and Gastech in Barcelona in September. In 2018, the III CORE LNGas hive Conference is planned for Bilbao in Spain.



## Itsasgas carries out milestone ship-to-ship LNG bunkering operation in the Port of Bilbao

Itsasgas company, owned by the Ente Vasco de la Energía –EVE, the Basque Government's energy agency–, Remolcadores Ibaizabal and Naviera Murueta, has carried out the first ship-to-ship LNG bunkering operation in the port of Bilbao.

This is the first time that this operation has been carried out all over the Atlantic Corridor and Southern Europe, and represents a landmark in the progress towards a cleaner energy supply in the naval sector, which is extremely dependent on petroleum products.

During the operation, 90 bcm of LNG were transferred from bunker vessel Oizmendi (formerly Monte Arucas), retrofitted for this type of service by Itsasgas, to cement carrier MV Ireland, with the collaboration of natural gas trading company Molgas.

The initiative is part of the CORE LNGas hive project, and marks the beginning of the monitoring periods of sub-activity EPA-1, consisting of BBG regasification terminal jetty adaptation, and sub-activity EPA-2, which involves the installation of two 300 bcm-capacity tanks on board bunker vessel Oizmendi.





# First electric connection to a vessel from a dock using an engine powered by natural gas

On the 15th of December the Port of Barcelona demonstrated the first electric connection to a vessel from a dock using an engine powered by natural gas. The demonstration was part of the CORE LNGas hive project, coordinated by Enagás and co-financed by the EU. The objective of the Project is to reduce emissions from vessels while docked at ports.

The event took place in the Terminal Ferry of Barcelona, and welcomed presentations by the General Director of the Port of Barcelona, José Alberto Carbonell; the General Manager of Enagás Empresa and CORE LNGas hive Project Coordinator, Fernando Impuesto; the President of Flota Líneas Suardíaz, Juan Riva; the Executive Advisor to the General Director





of Siemens Business Engine, José María Bilbao; the General Director of Ham, Antoni Murugó; the Technical Director of the Ports of the State of Spain (Puertos del Estado), Álvaro Rodríguez Dapena; and Head of Environment of the Port of Barcelona, Jordi Vila.

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 Port of Barcelona Air Quality Improvement Plan. Using LNG would lead to an 80% reduction of the NOx emissions and the total suppression of the sulphur oxides and suspended particles emissions.

It is a project led by the Port of Barcelona and framed within the CORE LNGas hive programme, coordinated by Enagás and co-financed by the

European Union, which includes 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 L'Audace vessel, in which the pilot test took place.



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## TARGET 1<sup>ST</sup>

Push forward the process of decarbonization in the Iberian Peninsula

## TARGET 2<sup>ND</sup>

Contribute to the reduction of pollutant emissions in shipping

## TARGET 3<sup>RD</sup>

Position the maritime industry and natural gas as maritime fuel

## TARGET 4<sup>TH</sup>

Increase the European visibility within the Iberian Peninsula LNG sector

€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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