



# CORE LNGas hive

A more sustainable  
transport

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COORDINATOR



Co-financed by the European Union  
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## Newsletter N° 7 3Q 2018

# CORE LNGas hive dissemination, communication and events

CORE LNGas hive has been presented during “Gastech 2018” with a corner at Enagás stand. The international event, inaugurated by the King of Spain, counted with the participation of more than 30.000 attendees and more than 500 exhibitors. Enagás Entrepreneurship General Manager, and HIVE coordinator, Fernando Impuesto, presented the project during the panel “Gas & LNG as a transportation fuel”. Several meetings took place with project partners and sector stakeholders. Furthermore, a meeting of the HIVE communication team took place in order to refine communication and dissemination strategy up to the end of the year 2019.

## Events forecasted in 2018

CORE LNGas hive participation is forecasted at the following events during the last quarter of 2018: “II Workshop: Intermodal Platform Port of Huelva”, 23 October; “Innovation of the Ports of the XXI Century in Cartagena”, October 26; “Natural gas and maritime transport”, Ceuta 7 November; Event organised by Universidad Politécnica de Madrid on



CORE LNGas hive and LNG training requirements at the Ateneo de Madrid, 19 November.

Additional events connected with pilots developments and organized by project partners: the 2nd Pilot test, On-board Power Supply in Vigo, 23 November; Results of a port locomotive retrofitting engineering to LNG in Tarragona port, 29 November.



# HIVE2

HIVE2 project proposal presented to CEF blending call was selected and supported by the European Commission. The Grant Agreement is expected to be signed by the end of the year. It will be an excellent opportunity to start up the roll-out and launch a set of specific deployment actions aimed at fostering the use of LNG as fuel for transport. The objectives of the project are:

- › Developing supply and demand LNG related actions (such as bunkering ships and adaptations of regasification plants to provide LNG bunkering services) in order to fulfil the requirements of the Directive 2014/94/EU,
- › Developing LNG supply services for dry ports
- › Adapting 5 ROPAX ferries that will be fuelled by LNG.

The initiatives included in HIVE2, respectively coordinated by Balearia, LNGHIVE2 Vessels demand: Green and smart links and Enagás LNGHIVE2 Infrastructure and logistics solutions, supported by Puertos del Estado, also involves Autoridad Portuaria de Huelva, RENFE Mercancías,



ADIF, Saggas, Marflet Marine and Fundación Valencia Port.

According to INEA, “selected projects will provide infrastructure enabling greater use of alternative

fuels. The proposed Action aims at adapting LNG regasification plants in Huelva and Valencia port to offer LNG bunkering services, building a new LNG bunkering barge and introducing LNG fuel in a maritime-rail green corridor between the core maritime Port of Huelva and the core dry port of Sevilla, including LNG supply services. The relevance of the proposed Action is excellent. The proposed Action contributes to the TEN-T Core Network Mediterranean Corridor. The proposal is relevant to the TEN-T priorities for use of LNG for multi-modal transport, alternative fuels and decarbonisation. The Action will contribute to economic growth by completing the adaptation of LNG plant infrastructure in Spain and creating an operating framework for the deployment of a global supply network of LNG for transport uses. The maturity of the proposed Action is very good. From a technical point of view, the action is ready to start.” Furthermore, INEA technical assessment mentioned that “The impact of the proposed Action is very good” and the “overall proposal is very good quality with a high level of detail. All the activities are well elaborated. The project planning is robust. The Action’s organizational structures is sound.” These initiatives are part of the LNGHIVE2 institutional strategy for the deployment of LNG supply points in ports and development of the associated market, promoted by the Spanish Ministry of Public Works through Puertos del Estado.





## News from project partners

# The transformation of a straddle carrier of the APM terminal of Barcelona Port to operate on gas (sub-activity EPM3) continues progressing

This project aims to transform a diesel machine, currently out of use, to work with natural gas, thus reducing polluting emissions.

The partners HAM and Idiada completed the straddle carrier transformation design and the transformation of the first diesel engine that enables operating 100% with gas. During the month of October, the engine was tested through the engine bench of Idiada Powertrain Department where the built-in mappings within the electronic control unit (ECU) have been calibrated to optimize engine operation for both mechanical performances and emissions level.

Furthermore, HAM completed the design of the gas components: two LNG tanks of 500L capacity will be installed, together with the pipes and valves system aimed at moving the gas to the rail injection system.

In parallel, Naturgy is performing a logistic study connected with LNG supply and an economic feasibility study; both aim at investigating possible transformation scenarios for straddle carriers in Barcelona Port terminals.

The tests connected with this pilot are expected in May 2019 at APM terminal; they will focus on measuring actual emissions (PEMS testing) and on corroborating that the use of natural gas can help reducing atmospheric pollution within the port.

This project, led by Barcelona Port is one of the actions contemplated in the Plan for the Improvement of Air Quality at Barcelona Port.



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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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