



CORE LNGas hive

A more sustainable
transport

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COORDINATOR



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Repsol and Enagás supply, for the first time in Europe, LNG as fuel to a vessel from a regasification plant

This pioneering operation for Europe took place in April 2017 within the framework of the CORE LNGas hive project, co-funded by the European Commission, to promote LNG in transport, particularly maritime transport.

Repsol and Enagás have for the first time in Europe supplied a ship with liquefied natural gas (LNG) fuel directly from a regasification plant. Coordination between Repsol and Enagás allowed the successful completion of the operation, which lasted five hours. Repsol, as bunker supplier, and Enagás, as infrastructure manager,

provided the technical and human resources required performing the operation at the Enagás regasification plant in Cartagena.

This type of supply, terminal/port-to-ship bunkering, was carried out using flexible cryogenic transfer hoses connecting the ship directly to the terminal. The ship, the Damia Desgagnés, received 370 m3 of LNG. This amount means that the bunkering operation was the largest that has been performed to date in Spain.

The Damia Desgagnés, Canadian flag, was built in Turkey with a length of 135 metres, a breadth of 35 metres and a double hull. Its most notable

characteristic is that it can be propelled using the three possible fuels: heavy fuel oil, marine diesel oil and LNG. It is also the first LNG-propelled asphalt tanker.

The use of LNG as a fuel contributes to improving air quality. LNG is an eco-friendly fuel because it does not produce emissions of sulphur oxide (SOx) or particulate matter (PM), and substantially reduces emissions of CO2 and nitrogen oxides (NOx), which allows increasingly stringent environmental regulations and emission reduction targets to be met.

This type of supply was made possible as a result

of the adaptations made to the Enagás plant jetty in the Port of Cartagena, in accordance with highest safety and quality standards. It also highlights the commitment to innovation in the provision of services by regasification plants. This operation was possible due to the collaboration between Repsol, Enagás and the Port of Cartagena Authority, and took place within the CORE LNGas hive project, co-funded by the European Commission, which is coordinated by Enagás and spearheaded by the Spanish Ports Authority. This initiative is turning Spain into the leader in this field in Europe, which is also aided by its privileged geographical placement as the gateway to the Mediterranean and the Atlantic.

The operation was recorded by video and will soon be available at the project website:
<http://corelngashive.eu/>





CORE LNGas hive project presented at IMO Marine Environment Protection Committee (MEPC), 71st session, July 4

CORE LNGas hive project coordinator and Enagás Director, Fernando Impuesto presented CORE LNGas hive project within the IMO 71st session, Marine Environment Protection Committee (MEPC) in London.

The presentation, encouraged by the Spanish delegation at IMO, was proposed taking into



account the interest of hearing the developments and voice of the industry. It was given jointly with Balearia Fleet Manager, Guillermo Alomar and revealed high interest from the audience as it ended with several questions about prices, security floating facilities and other. It took place after the official session (decision-making) and before an event organized by the Spanish delegation and presented by the Spanish ambassador in London in order to promote the candidature of Spain to the IMO Council. Furthermore, the project and the international school of LNG were also presented at a stand located in the Delegates room where there were



only 3 stands in total and it was a very fruitful free promotion initiative for both projects.

About MEPC

All 172 IMO Member States and Associate Members attend MEPC as well as all Parties to MARPOL (International Convention for the Prevention of Pollution from Ships); Intergovernmental organizations and international non-governmental organizations are also invited.

Among other issues, MEPC continued to build on the solid work the Organization has undertaken

to address greenhouse gas emissions from international shipping. Energy-efficiency design standards for new ships and associated operational energy-efficiency measures for existing ships became mandatory in 2013, with the entry into force of relevant amendments to MARPOL Annex VI. The Committee informed that nearly 2,500 new ocean-going ships have been certified as complying with the energy efficiency standards.

The Intersessional Working Group on Reduction of GHG Emissions from Ships provided a report to MEPC 71 which will form the basis for further deliberation in relation to the elements set out in the Roadmap for developing a comprehensive IMO strategy on reduction of GHG emissions from ships agreed at MEPC 70. An initial IMO GHG strategy is set to be adopted at MEPC 72 in spring 2018, including, inter alia, a list of candidate short-, mid- and long term further measures with possible timelines.

MARPOL amendments to make mandatory the data collection system for fuel oil consumption of ships were adopted at the last session and are expected to enter into force on 1 March 2018. They require data collection to start from calendar year 2019. MEPC 70 decided that the global limit of the sulphur content of ships' fuel will be 0.50% m/m from 1 January 2020.

The conference attended by 120 representatives from the consortium of the project, associations and the sector was opened by the President of the Spanish Ports Authority, José Llorca; Gas Assets General Manager of Enagás, Claudio Rodríguez and the President of the Barcelona Port Authority, Sixte Cambra.

The main results of CORE LNGas hive project were presented in this public event in Barcelona at Fundació Navegació Oceànica. The aim was to disclose the status of the project and the efforts made by the European Commission and the Spanish Government to promote transport sustainability. The event focused on LNG as the down-to earth and the real alternative of the future of sustainable sea transport. Furthermore, the use of LNG will contribute to the decarbonisation of the transport sector according to the EU targets and will play an important role in improving air quality, especially in port environments.

For Helmut Morsi, Advisor to the European Commission, “these types of projects are key initiatives for the application of the Clean Power for Transport directive, which supports sustainable transport, the fight against climate change, the improvement of air quality, which are of benefit for all European citizens.”

The conference also explained the National Action Framework for Alternative Energies in Transport which highlights the efforts made by the Spanish



1st CORE LNGgas hive project Conference took place in Barcelona last June 22nd

Government in this field. Studies on the Demand and Social Perception of LNG produced by CORE LNGas hive were also presented. According to the results of the study on the Demand, developing a European network of LNG refueling stations would motivate the market, and the Iberian Peninsula would play a key role.

Finally, three round tables took place, in which value was placed on LNG as a sustainable fuel and the consumer and shipper viewpoints were explained, as well as those of other similar European projects. The bottom line is that LNG is increasingly in demand as a fuel in the maritime sector, in the context of reducing emissions. This first conference was held in Barcelona as it is one of the main cities where CORE LNGas hive project is being developed with five initiatives. One of them, the LNG Powered electricity generator, was exhibited and available outside the premises of the Fundació. Further Conferences are proposed for this same year in Portugal and in Mugaridos (Spain). The aim of CORE LNGas hive is to create a safe, efficient and integrated logistics and supply chain for LNG as a fuel in the transport sector, particularly for maritime transport, in the Iberian Peninsula.



For more information visit



Since April 2017 and for six months, the mobile exhibition created for CORE LNGas hive project within LNG social acceptance sub-activity, driven by Enagás as leader, started its road show in Madrid.

The mobile exhibition has the aim of travelling around Spain and Portugal showing the benefits of the use of LNG as fuel especially for the maritime sector. The mobile exhibition took advantage of the results of the LNG social perception study in the messages shared with different stakeholders for that purpose. Most of the 42 partners of the project have been actively involved in the exhibit and the itinerary.

Mobile exhibition has been on the road for almost three months

During these almost three months of touring, the mobile exhibition has been present and active in different LNG summits and gatherings, in events organized by Fundación Valencia Port, Sasemar, IVECO and Green Energy Ports Conference. Furthermore, among others, the Universidad Politecnica de Madrid, Reganosa and Universidad Santiago de Compostela have actively used the facility to do trainings and presentations. In some of the places, it has incorporated a performance on the handling of LNG as a practical demonstration and magic show. The mobile exhibition had approximately 2.700 visits during these months, including the general public, school students and passersby. Until October 20th the mobile exhibition will be performing different events for the general and specialized public. It will travel to Portugal in September and it has been registered to participate at the rally Lisbon-San Petersburg organized by Gasnam.

Just a reminder to port authorities or partners that they are encouraged to be in charge of the exhibit and at their disposal for lectures, conferences, seminars or any use they find suitable for the specific location.

Let's all keep enjoying this opportunity and make the most of it. Looking forward to meet most of you at the mobile exhibition, please check the itinerary, which is alive and incorporates changes daily, at the web site of the project: www.corelngashive.eu



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TARGET 1ST

Push forward the process of decarbonization in the Iberian Peninsula

TARGET 2ND

Contribute to the reduction of pollutant emissions in shipping

TARGET 3RD

Position the maritime industry and natural gas as maritime fuel

TARGET 4TH

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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