



CORE LNGashive

A more sustainable
transport

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COORDINATOR



Co-financed by the European Union
Connecting Europe Facility

Newsletter N° 4 3Q 2017



CORE LNGas hive project participated in the Connecting Europe conference

CORE LNGas hive project participated in Estonia, Tallinn, September 21st and 22nd, at the Connecting Europe conference. The conference focused on investments into the European Union's trans-European transport network (TEN-T) with the aim of identifying policy actions, priorities and financing solutions for such in the post-2020 EU financial framework. The purpose of the conference was to gather compelling and tangible information on the state of play of TEN-T implementation and financing thus far, while also identifying different financing opportunities for the future.

In addition, an exhibition of different Connecting Europe Facility (CEF) funded transport projects was available at the venue. CORE LNGas hive



participated also in the exhibition with a stand and shared information with interested stakeholders about the initiative and its aim to develop a safe, efficient and integrated logistics chain for the supply of LNG as a more sustainable fuel for the maritime sector. Project focal points could also interact with several representatives of the European Commission, including European Commissioner for Transport Violeta Bulc and Spanish representative at the trans-European Transport Network from the Ministry of Public Works and Transport, María del Corral.

As the event underlined, the TEN-T strategic framework and the long-term infrastructure plans are essential to achieving the EU's common objectives: economic growth, jobs and competitiveness of the EU economy; efficient functioning of the EU single market; low-emissions and smart mobility and trade and connectivity with third countries. For these purposes, TEN-T core transport network needs to be completed by 2030, and the comprehensive network by 2050.

The conference was organised by the European Commission and the Estonian Presidency of the Council of the European Union. Opening remarks were made by Estonian Prime Minister Jüri Ratas, and Vice-President of the European Commission Maroš Šefčovič; followed by a high-level plenary session with the participation of an all women panel by European Commissioner for Transport Violeta Bulc, Minister for Economic Affairs and Infrastructure of Estonia Kadri Simson, and the

Chairperson of the Transport Committee of European Parliament Karima Delli. All of them shared with the participants the present situation, the challenges to face and the future of the sector.

President of the European Investment Bank (EIB) Werner Hoyer also delivered a key note at the conference. The sessions following the high-level plenary concentrated on looking at existing and future investment opportunities for infrastructure. The second day the question of how to overcome TEN-T missing links and bottlenecks was examined; including, for example, how to bring about more innovative solutions in smart and low-emission mobility. The latter showed the synergies between transport and energy and digital sector.

The conference received around 1,500 attendees and gathered essential stakeholders: EU ministers, members of the European Parliament and the European Commission, TEN-T coordinators, European Investment Bank and National Promotional Banks, ministers from Europe's neighbouring countries, project promoters, investors, international transport organisations, and members of transport and financing sectors. We could listen directly from them transport investment and financing needs for the post-2020 EU financial framework.

It was an excellent opportunity to interact with policy makers, stakeholders and meet with representatives of projects beneficiaries of CEF and TEN-T initiatives such as CORE LNGas hive.



LNG Logistic Supply Chain Study on going

LNG as a fuel for the maritime sector
LNG logistics supply chain study aims to define the best supply chain which could cover the future LNG demand in Spanish and Portuguese ports as foreseen in sub-activities ET2,3&4 of CORE LNGas hive project. The first phase, the demand studies, was carried out by DNV-GL and it was finished in December 2016. The results were presented at the I CORE LNGas hive Project Conference: demand foreseen of 2 Million m³/year in 2030 and 8 Million m³/year in 2050 of LNG as a fuel for the maritime sector.

The second phase started in March 2017 when the tender to develop a supply chain study was launched and it was awarded in June to Shipping Business Company (SBC). The study should analyse the different possibilities to cover the demand forecasted by DNV-GL and may outcome with the most economic efficient and the most environmentally friendly supply chains.

The results will provide a better understanding of the transport, storage and bunkering technology, outstanding the needs for the future development of infrastructure. It will also analyze the competitive position of the Iberian Peninsula in the studied corridors after the deployment of the proposed infrastructure.

The completion of the works is scheduled for the end of the year, and the results will be presented in 2018 after they have been analyzed by the consortium partners.



CORE LNGas hive mobile exhibition ends its road show on October 19th

CORE LNGas hive mobile exhibition starts its last month of activity. The liquefied natural gas (LNG) semitrailer participated recently in the 11th LNG Blue Corridor rally for natural gas vehicles, in the first three stages of the rally between Lisbon and Junquera. The rally still ongoing will finish in Saint Petersburg coinciding with the celebration of the International Gas Forum and covers 5,700 kilometres, through 9 countries and incorporates both heavy vehicles powered by LNG and private

vehicles fuelled by compressed natural gas (CNG). The Iberian part of this rally is being carried out in collaboration with the Iberian Association for Natural Gas as a Fuel, GASNAM.

CORE LNGas hive activity “LNG social acceptance”, leaded by Enagás designed this mobile exhibition that travels by LNG-powered tractor unit Iveco Stralis 400 on loan to Enagás for six months from Iveco for this purpose. The LNG

semitrailer aims to achieve a didactic work on LNG as one of the most environmentally friendly fuels and took advantage of the results of the LNG social perception study in the messages shared with different stakeholders for that purpose. The mobile exhibition has been traveling since April of this year around 45 cities in Spain and Portugal and has been visited by more than 5,000 people. In many of its destinations the 42 partners and stakeholders of the CORE LNGas hive project actively organised events, presentations or trainings to inform that natural gas as fuel is a real and economic alternative for transportation. Furthermore, that LNG plays a main role in the decarbonization processes as it reduces CO2 by about 30% compared to traditional fuels, it also eliminates emissions of sulfur oxides (SOx), particulates (PM) and substantially reduces nitrogen oxides (NOx), key to achieving a more sustainable transport.

The semitrailer will participate during the last month of activity in three universities: Universidad de Coruña, Campus de Esteiro, El Ferrol; Universidad de Gijón; Centro Jovellanos and will end its activity in Paterna, Valencia for the annual event of MAN-PrimeServ.



More information about the itinerary of the mobile exhibition and CORE LNGas hive project at:
<http://corelngashive.eu>





Next CORE LNGas hive event will take place in Portugal with the leadership of REN on Tuesday, November 28, implementing the communication plan approved by all partners. We are looking forward to participate at the II CORE LNGas hive Conference, at Auditório da REN Sacavém - Rua Cidade de Goa – Sacavém in Lisbon from 10:30 to 13:30, an event that will underline environmental benefits of liquefied natural gas (LNG), as a sustainable transport fuel, especially for the maritime sector.

CORE LNGas hive events and participation in events of the sector

CORE LNGas hive project is presented in all the events in Spain, Portugal and Europe, where Enagás as coordinator of the project is invited and also in the events where Puertos del Estado as leader and other partners are invited too. The next events identified are: Challenges for ports of maritime transport in the EU (9 October, Retos y desafíos de los puertos y el transporte marítimo en la Unión Europea), Sta Cruz de Tenerife; 3rd LNG Congress, Barcelona (16 and 17 October); European Autumn Gas Conference (EAGC), Milan, Italy (6 and 8 November); The 8th Motorship Gas Fuelled Ships Conference, Helsinki (13- 15 November) The CWC 18th World LNG Summit & Awards Evening, Lisbon (28 November – 1 December).

In 2018, the III CORE LNGas hive Conference is foreseen in Spain in Mugardos. Furthermore other important conferences of the sector include LNG Bunkering Summit, Amsterdam (30 and 31 January), TEN-T days in Ljubljana, Slovenia (April 26-27) and Gastech in September.

News from CORE LNGas hive partners

Approval in Principle of the Basic Engineering of a LNG tugboat

The subactivity EV6 “Tugboat propelled by LNG operating at the Port of Valencia” has completed the objective set at the beginning of the project. On June 28th, BUREAU VERITAS as Classification Society issued the Approval in Principle to the basic engineering of a tugboat propelled with a pure gas engine carried out by the engineering consultancy SEAPLACE S. L. The design meets the criteria set by the owner, BOLUDA CORPORACIÓN MARÍTIMA, as essential requirements for the integration of the tugboat in its operation. In this

activity, the Directorate General of Merchant Marine, the Valencia Port Authority and the Valenciaport Foundation have also participated in the supervision of the design, the latter also acting as the coordinating partner of the action.

LNG-powered tugs are receiving great interest in their low emission operating potential. However, few are currently operating in the world, with the design developed within the framework of the project being particularly unique because it is the

smallest one designed to use LNG. The tugboat has been designed for port and escort operation, includes fire-fighting capability, sufficient power to provide a bollard pull of 65 tons and all this has been accomplished keeping the gross tonnage under 500 GT. The final arrangement ensures normal operation of the tugboat without increasing operating costs.





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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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