ENTSOG Publication:

[001]- Comments on the Project in the context of the current publication. :

General Information:

[002]- Is the project an enabler for groups? : No
[003]- Project(System) Code : 468
[004]- ENTSOG Project Code : LNG-N-468
[005]- Was the project item part of the last TYNDP? : No
[006]- Project Name : Example LNG Project
[007]- Infrastructure Type : LNG
[009]- Project Description : Conventional LNG import terminal (bunkering, break-bully, on grid and off grid land transportation) for improving security of supply in Country B and severing commercial customers. The project includes 5*800 m3 pressurized bullets and 2*100m3/h truck loading.
[010]- Project Host Country : Ireland
[011]- Project Status : Planned
[013]- Promoter Legal Personality : Port of City XYZ
[014]- Project Promoter Type. : Third Party Promoter
[016]- Which Company will be the commercial operator once your project is completed. : DESFA S.A.
[017]- Will there be any other commercial operator(s) once your project is completed? If yes, please mention it/them.. : 
[018]- Has your project taken the FID? : No
[020]- Is your project only a Capacity Modification, which does not require actual investment or construction works ? : No
[021]- Estimated CAPEX (in million €) : 250
[022]- Are these CAPEX costs considered confidential? : No
[024]- Amount of already incurred CAPEX (in million EUR] at the time of project submission : 0
[026]- Amount of contracted but not yet incurred CAPEX (in million EUR] : 0
[028]- CAPEX Range (in %) : 10
[029]- Estimated OPEX (in million € per year) : 15
[030]- Are these OPEX costs considered confidential? : No
[032]- OPEX Range (in %) : 20
[033]- Name of your representative in charge of the Project submission : Steven Test
[034]- E-mail address of your representative in charge of the Project submission: steven.test@promoter.com

[035]- Phone number of your representative in charge of the Project submission: +385695752

[036]- Project Website:

[037]- General Remarks: Possibility of bunkering, truck loading and 0.5 bcm connection into low pressure grid with 4000m3; LNG storage capacity could be available from 2023

Administrative Criteria:

[040]- Please select the category of the project promoter you are: C.1 Company which is a Member, Observer or Associated Partner of ENTSOG or an entity being a partner of the company in the same project or having a shareholding relation with this company.

[042]- Company Existence (Pass-Fail Criteria): Yes

[043]- Company Financial Strength (Pass-Fail Criteria): Yes

[044]- Company Technical Expertise (Pass-Fail Criteria): Yes

[045]- Please indicate if your project has completed the (Pre-) Feasibility study: No

[050]- Please select one of the following options:

- (Pre-) Feasibility study [please attach relevant documents below]

[051]- Please provide any additional comments: Feasibility study is ongoing and should be finalized by the end of 2021

Inclusion in NDP:

[054]- Is your project part of a National Development Plan (NDP)?: Yes

[055]- Please indicate the name of the NDP in which your project is included: National Development Version 5.2.

[056]- Please indicate the unique identification number of your project in the NDP: ND-V5.2-Y122020

[057]- Project NDP Website: http://www.internetseite.com

[059]- NDP Release date: 11/12/2020

Enabler/Enhancer Projects:

[061]- Is this project an internal enabler?: Yes

[062]- Enabled Projects:

- TRA-F-467 Ghost Project - Gaslink PCI

[064]- Please explain the enabler relation with the selected project(s): Without this project the above named Project can’t be realized as no supply source is available.

[065]- Is this project an enhancer?: No

Project Shareholders:
<table>
<thead>
<tr>
<th>[069]- Project Section</th>
<th>[070]- Shareholder Name</th>
<th>[071]- Shareholder Share</th>
</tr>
</thead>
<tbody>
<tr>
<td>Complete LNG Terminal</td>
<td>Government Country</td>
<td>25</td>
</tr>
<tr>
<td>Complete LNG Terminal</td>
<td>Port of City</td>
<td>75</td>
</tr>
</tbody>
</table>

**Technical Information:**

[072]- Indicate if your project is part of: None of above

[074]- Is this a multi-phase project? : No

[075]- Please specify if your project is suited to transport increasing percentages of hydrogen (possibly up to 100 %) : Yes

[077]- Please specify if your project contributes to coal to gas switch : Yes

**Type Specific Information - LNG :**

<table>
<thead>
<tr>
<th>[088]- Reloading ability ?</th>
<th>[089]- Name of Project Phase</th>
<th>[090]- Expected increment in yearly volume (bcm/y)</th>
<th>[091]- Increment of daily Send-out capacity (mcm/d)</th>
<th>[092]- Increment of storage capacity (m3 LNG)</th>
<th>[093]- Comments</th>
<th>[094]- Commissioning Year</th>
<th>[095]- Modelling Commissioning Year</th>
<th>[097]- Please indicate the expected load factor of the LNG facility on yearly basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>City LNG</td>
<td>4</td>
<td>160000</td>
<td>11</td>
<td>160000</td>
<td>no comments</td>
<td>2023</td>
<td>2023</td>
<td>50</td>
</tr>
</tbody>
</table>

[087]- Name of the regaseification facility : City LNG

[099]- Additional Comments :

**Project of Common Interest(PCI) Label :**

[136]- Is your project in the current legal PCI list ? : No

[138]- Do you intend to apply for PCI label in the next PCI round? : No

**Variant for Modelling :**

<table>
<thead>
<tr>
<th>[156]- Variant Name</th>
<th>[157]- Variant Description</th>
<th>[158]- Considered for Modelling</th>
</tr>
</thead>
<tbody>
<tr>
<td>LNG Out</td>
<td>LNG out from Terminal</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**Increments in Entry/Exit Capacity (If you do not complete this section, your project cannot be modelled) :**

<table>
<thead>
<tr>
<th>[159]- Transportable/storable gas</th>
<th>[160]- Share of selected gas/ total capacity [%]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Natural gas</td>
<td>100</td>
</tr>
</tbody>
</table>
Hydrogen:

Synthetic methane:

Biomethane:

<table>
<thead>
<tr>
<th>Operator</th>
<th>Point</th>
<th>Flow Direction</th>
<th>Status</th>
<th>Variant</th>
<th>Commissioning Year</th>
<th>Modelling Commissioning Year</th>
<th>Increment (GWh/d)</th>
<th>Peak Increment (GWh/d)</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trans-Adriatic Pipeline AG</td>
<td>Nea Mesimvria exit</td>
<td>Operational</td>
<td>LNG Out</td>
<td>2023</td>
<td>2023</td>
<td>115</td>
<td>121</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Cross Border Cost Allocation and Financial Assistance:**

[171]- Does your project have a CBCA decision by NRAs or ACER? Select one or more:

- No, we have not submitted an investment request yet, and we have not yet decided whether we will submit or not

[172]- (if option 1, 2 or 3) When the investment request was submitted/or you plan to submit it? :

[173]- If option 1), when was the decision taken? :

[174]- If option 1), please provide CBCA Decision Website :

[175]- If option 1), please list the countries identified from the CBCA decision as net benefiting countries :

[176]- If option 1), please list the countries identified from the CBCA decision as net cost bearers :

[177]- Please provide any additional comments :

[178]- Have you already applied for financial support from the Connecting Europe Facility (CEF) :

- (3) No, we have not applied for CEF

[179]- [If options 1) or 2) in above box list] Did your project request EU financial assistance in the form of grants for studies? : No

[180]- Did you receive any grants for studies following your request? : Not applicable

[181]- If yes, please indicate the amount [mil EUR] :

[182]- [If options 1) or 2) Did your project request EU financial assistance in the form of grants for works? : No

[183]- Did you receive any grants for works following your request? : Not applicable
- If yes, please indicate the amount [mil EUR]:

- If option 3), Do you intend to apply for financial support from the Connecting Europe Facility?:
  - No, we do not plan to apply

- Have you received any financial support from funding programmes other than CEF at European, regional or national level?: No

- Please Provide details:

- Do you plan to apply for any other type of financial assistance?: No

- Please Provide any further relevant details:

**Project Schedule:**

- Pre-Feasibility Start date: 02/09/2018
- Pre-Feasibility End date: 31/03/2019
- Feasibility Start date: 01/04/2019
- Feasibility End date: 01/11/2021
- FEED: Not available
- Permitting Phase Start date: 01/01/2020
- Permitting Phase End date: 28/02/2022
- Supply Contracts: Tendering will start soon
- Expected FID date:
- Construction Start date: 01/07/2022
- Construction End date: 31/07/2023
- Project Advancement: In Progress

- Comments about Project Advancement:

- Date of grant obtention for studies/for works:

- Comments about the schedule, including Realisation Conditions: Indicative time schedule based on ongoing feasibility studies

- Compared to previous TYNDP indicate if your project is: Not applicable

- Delay Explanation:

**Project Expected Impact:**

- Main Project Driver(s):
  - Market Demand
  - Regulation SoS
[209]- Comments on the Main Project Driver: - Market integration and diversification, SOS, market development - Synergies between energy supply and alternative fuel in transport

[210]- In line with the definition of Gasification provided in the Handbook, does your project contribute to the gasification of a country or the gasification of a specific area not reached yet by gas? : No

[212]- Please provide your project expected benefits: Interoperability and leads to a diversification of sources and routes. Reduces bottlenecks.

[213]- Impacted countries and relevant information: Country B and neighbour country C. Reduces bottlenecks in Country C and is very important also for neighbour country C with regards to SoS

[214]- Please indicate the number of new jobs created associated to the project, the impacted countries and provide relevant information: 40-50 jobs will be newly created. Mainly in the operating of the LNG Terminal but also in the dispatching area and finance department.

[215]- Please describe and quantify any possible positive impact of the project on climate change: LNG will be also delivered to new LNG fuelling stations for the transportation sector. Here LNG can replace petrol.

[216]- Please describe and quantify any possible negative impact of the project on climate change: N/A

[222]- Does your Project include new digital solutions?: No

[224]- Does your project enable the integration with the electricity, heating, water or telecommunication network?: No

[229]- Does your project contribute to any of the following specific criteria?:
- network security and quality of supply by improving the efficiency and interoperability of gas transmission and distribution in day-to-day network operation by, among others, addressing challenges resulting from the injection of gases of different qualities through the deployment of innovative technologies and cybersecurity
- market functioning and customer services

[231]- Gas Sourcing:
Algeria: No
Caspia/Azerbaijan: No
Libya: No
Norway: No
Russia: No
Israel: No
Turkey: No
LNG: Yes
LNG Country:
World:

Electrolysis: No
SMR: No
Pyrolysis: No
Biogas: No
Others:

[232]- Please provide the background for the gas sources the project will be supplied with. : LNG can received from different supplier around the world

[233]- Measures / Actions to reduce methane emissions:

[234]- Does the design and construction of the project minimize the number of connections and components that commonly leak? : Yes

[235]- Does the design and construction include measures for recapture/reuse of gas when possible (compressors, analysis equipment...)? : No

[236]- Does the design and construction avoid or minimize the installation of vents (TRA and UGS only)? : Yes

[237]- Comment. :

[238]- Does the design and construction prioritize the use of electric, mechanical and compressed air equipment (pneumatic controllers, compressor starters)? : No

[239]- In case that devices powered by natural gas are the best option, will lower emissions devices be used (instead of highbleed controllers)? : No

[240]- Comment. :

[241]- Does the design and construction foresee to install dry disconnect couplings in the LNG truck loading facilities (LNG only)? : Yes

[242]- Does the design and construction consider to implement BOG recovery units to recover, compress and send the BOG to the recondenser to be converted to LNG (LNG only)? : Yes

[243]- Is it planned to install automated air/fuel ratio controls? : No

[244]- Please provide an estimation of the expected methane emissions [in kg CH4/y] once the facility has been commissioned and describe how these emissions were calculated. If not applicable, please justify. :

[245]- Are periodic leak detection and repair (LDAR) programs for fugitive emissions planned during the start-up phase? : No

[246]- Comment. :

[247]- Are steps planned to reduce venting from routine maintenance repairs when pipelines and or large vessels need to be depressurized during operation? : --Select--
[248]- Does the operator plan to minimize the volume that has to be depressurized during venting? : --Select--

[249]- Does the operator plan to use pumpdowns for depressurizing pipelines and large vessels during maintenance? : --Select--

[250]- Does the operator plan the usage of hot-taps to make connections to pipelines? : --Select--

[251]- Is it planned to use portable compressors to avoid vents during start-up and operation? : --Select--

[252]- In case that venting can not be avoided will vented gases flared? : --Select--

[253]- Will LNG truck loading nitro injection or dry coupling used to avoid venting (LNG only)? : Yes

[254]- Are LNG terminals BOG compressors used under normal operation conditions(LNG only)? : Yes

[255]- Does the operator aspires increasing the combustion efficiency of natural-gas powered engines? : Not Applicable

[256]- Does the operator aspire to minimize number of start-ups (engines, turbines and fired heaters)? : Not Applicable

[257]- It is mandatory to keep an accurate inventory of flaring activities during start-up and operation (UGS, LNG only)? : Yes

[258]- Please list technical evidence to support the implementation of the selected mitigation measures (during engineering design, construction and start-up stages of the project). : 

[259]- Additional Mitigation measures (not included above): 

[260]- Did Promoter(s) join/intend to join the OGMP 2.0 Reporting Framework? : Yes

[261]- if intended in the near future please give an approx. Date/Year. : 

Intergovernmental Agreement:

<table>
<thead>
<tr>
<th>Agreement Name</th>
<th>Signed</th>
<th>Date</th>
<th>Description</th>
<th>Other comments</th>
</tr>
</thead>
</table>

Barriers in Implementation:

[275]- Regulatory Framework:
- Low rate of return

[277]- Permit granting: No barriers here. All permits for the construction phase are in time.

[278]- Financing:
- Availability of funds and associated conditions

[280]- Political:

[281]- Market:

[282]- Project acceptability by the local community:

[283]- Technical/Technological:
[285]- Value chain :

[286]- Other Barriers, please explain :

[287]- Which incentives would support your project implementation :

[288]- Have you received additional regulatory incentives for your project :

Please upload a map of your project :