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 : 444
[004]- ENTSOG Project Code : TRA-F-444
[005]- Was the project item part of the last TYNDP? : Yes
[006]- Project Name : Example Transmission Project (Interconnection)
[007]- Infrastructure Type : TRA
[008]- Is the project a virtual submission of more projects : No
[009]- Project Description : New bidirectional offshore pipeline (Gedser-Rostock, DN700, 80 bar) of 80 km, plus 120 km onshore pipeline in DK (Gedser-Roskilde pipeline, DN 700, 70 bar) including metering and compressor station at the end of the pipeline with a daily nominal capacity of 7.2 mcm/day. The power of the compressor station is about 10 MW.
[010]- Project Host Country : Denmark
[011]- Project Status : In Progress
[013]- Promoter Legal Personality : Promoter Company Name
[014]- Project Promoter Type : TSO
[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 : no
[018]- Has your project taken the FID? : Yes
[019]- Indicate the date when your FID was taken : 26/06/2019
[020]- Is your project only a Capacity Modification, which does not require actual investment or construction works? : No
[021]- Estimated CAPEX (in million €) : 200
[022]- Are these CAPEX costs considered confidential? : No
[024]- Amount of already incurred CAPEX (in million EUR) at the time of project submission : 100
[026]- Amount of contracted but not yet incurred CAPEX (in million EUR) : 20
[028]- CAPEX Range (in %) : 3
[029]- Estimated OPEX (in million € per year) : 5
[030]- Are these OPEX costs considered confidential? : No
OPEX Range (in %) : 5

Name of your representative in charge of the Project submission : George Test

E-mail address of your representative in charge of the Project submission : george.test@test.com

Phone number of your representative in charge of the Project submission : 123456789

Project Website :

General Remarks :

Administrative Criteria :

Please select the category of the project promoter you are : A.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.

Company Existence (Pass-Fail Criteria) : Yes

Company Financial Strength (Pass-Fail Criteria) : Yes

Company Technical Expertise (Pass-Fail Criteria) : Yes

Please indicate if your project has completed the (Pre-) Feasibility study : Yes

Please select one of the following options :

- PCI

- FID

- National plan

Please provide any additional comments :

Inclusion in NDP :

Is your project part of a National Development Plan (NDP) ? : Yes

Please indicate the name of the NDP in which your project is included : National TEN-YEAR Transmission System Development Plan 2018-2027 Country A

Please indicate the unique identification number of your project in the NDP : N/A

Project NDP Website : http://www.testtestst.com

NDP Release date : 01/05/2018

Enabler/Enhancer Projects :

Is this project an internal enabler? : No

Is this project an enhancer ? : No

Project Shareholders :

<table>
<thead>
<tr>
<th>Project Section</th>
<th>Shareholder Name</th>
<th>Shareholder Share</th>
</tr>
</thead>
</table>
Country A Section | Promoter Company Name | 100

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: No

Type Specific Information - Pipeline:

<table>
<thead>
<tr>
<th>Name of the section/phase</th>
<th>Length of the Pipe (in Km)</th>
<th>Diameter (in mm)</th>
<th>Additional Compressor Power (in MW)</th>
<th>Part of Variant</th>
<th>Comments</th>
<th>Comissioning Year</th>
<th>Modelling Commissioning Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Complete</td>
<td>200</td>
<td>700</td>
<td>10</td>
<td>Test 1</td>
<td>2022</td>
<td>2022</td>
<td>2022</td>
</tr>
</tbody>
</table>

[131] - Please indicate the expected load factor of your project (when completed) on yearly basis: 50

[132] - Please indicate the expected load factor of your project (when completed) under peak situation: 95

[133] - Is the proposed project the result of the demand assessment in the context of the Incremental Capacity Process?: No

Project of Common Interest (PCI) Label:

[136] - Is your project in the current legal PCI list?: Yes

[137] - PCI Name:

[138] - Do you intend to apply for PCI label in the next PCI round?: Yes

[147] - Was your project part of any other PCI Lists? If yes, please select the latest PCI list the project was part of: PCI List 2017

[148] - Which criteria are fulfilled by your project?:
  - Involves at least two Member States by directly crossing the border of two or more Member States

[150] - Please justify your answer.: Interconnection between two MS Countries.

[152] - Which specific criteria are fulfilled by your project?:
  - Market Integration, inter alia through lifting the isolation of at least one Member State and reducing energy infrastructure bottlenecks, interoperability and system flexibility
  - Competition, inter alia through diversification of supply sources, supplying counterparts and routes

[154] - Please justify your answer.: Market integration: - Connection of the gas markets in the region Competition: - Reduction of price differences between the East Baltic region and North-West
Is the project also part of the latest Energy Community PECI or PMI list? : Yes

**Variant for Modelling:**

<table>
<thead>
<tr>
<th>Variant Name</th>
<th>Variant Description</th>
<th>Considered for Modelling</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test 1</td>
<td>Description Default</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>Transportable/storable gas</th>
<th>Share of selected gas/ total capacity [%]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Natural gas</td>
<td>100</td>
</tr>
<tr>
<td>Hydrogen</td>
<td></td>
</tr>
<tr>
<td>Synthetic methane</td>
<td></td>
</tr>
<tr>
<td>Biomethane</td>
<td></td>
</tr>
</tbody>
</table>

**Operator**

<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>
</tr>
</thead>
<tbody>
<tr>
<td>Trans-Adriatic Pipeline AG</td>
<td>Komotini TAP / IGB entry</td>
<td>Planned</td>
<td>Test 1</td>
<td>2022</td>
<td>2022</td>
<td>70</td>
<td>90</td>
<td></td>
</tr>
<tr>
<td>Trans-Adriatic Pipeline AG</td>
<td>Komotini TAP / IGB exit</td>
<td>Planned</td>
<td>Test 1</td>
<td>2022</td>
<td>2022</td>
<td>80</td>
<td>90</td>
<td></td>
</tr>
</tbody>
</table>

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

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

- Yes, we have submitted an investment request and have received a decision

If option 1), when was the decision taken? : 10/04/2019

If option 1), please provide CBCA Decision Website:


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

- Cyprus
- Greece

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):
  - (1) Yes, we have applied for CEF and we have received a decision

[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?:
  - Yes

[183]- Did you receive any grants for works following your request?: Yes

[184]- If yes, please indicate the amount [mil EUR]: 2

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

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

[187]- Please Provide details:

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

[190]- Please Provide any further relevant details:

Project Schedule:

[192]- Pre-Feasibility Start date: 12/09/2017
[192]- Pre-Feasibility End date: 14/11/2017
[193]- Feasibility Start date: 01/12/2017
[193]- Feasibility End date: 30/05/2018
[194]- FEED: No FEED
[195]- Permitting Phase Start date: 01/08/2018
[195]- Permitting Phase End date: 28/02/2019
[196]- Supply Contracts End date: 31/12/2019
[198]- Construction Start date: 19/01/2021
[198]- Construction End date: 15/03/2022
[199]- Project Advancement: In Progress
[200]- Comments about Project Advancement:
Date of grant obtention for studies/for works:

Comments about the schedule, including Realisation Conditions:

Compared to previous TYNDP indicate if your project is: On time

Delay Explanation:

Project Expected Impact:

Main Project Driver(s):
- Market Demand

Comments on the Main Project Driver: Industry in the area has a high energy demand.

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

Please provide your project expected benefits: The project is mainly driven by market demand but it will also lead to more competition.

Impacted countries and relevant information: Denmark and Germany

Please indicate the number of new jobs created associated to the project, the impacted countries and provide relevant information: 10 jobs will be created in the maintenance area.

Please describe and quantify any possible positive impact of the project on climate change: N/A

Please describe and quantify any possible negative impact of the project on climate change: No negative impact investigated

Does your Project include new digital solutions? No

Does your project enable the integration with the electricity, heating, water or telecommunication network? No

Does your project contribute to any of the following specific criteria? :
- market functioning and customer services

Gas Sourcing:

Algeria: No
Caspia/Azerbaijan: No
Libya: No
Norway: Yes
Russia: Yes
Israel: No
Turkey: No
LNG: No
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.:
Through interconnection between DK-DE DK will have access to the existing gas sources (Russia, Norway) to a higher extent.

[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...)?: Yes

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

[237]- Comment.: The design and construction considers the use of electric/mechanical and compressed air equipment. The use of equipment powered by natural gas is minimized.

[238]- Does the design and construction prioritize the use of electric, mechanical and compressed air equipment (pneumatic controllers, compressor starters)?: Yes

[239]- In case that devices powered by natural gas are the best option, will lower emissions devices be used (instead of highbleed controllers)?: Yes

[240]- Comment.: 

[241]- Does the design and construction foresee to install dry disconnect couplings in the LNG truck loading facilities (LNG only)?: Not applicable

[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)?: Not applicable

[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.: Average yearly emission based on Marcogaz: Compressor Station = 1x
131.400 kg/yr Pipeline = 200*25=5.000 kg/yr Metering and pressure regulating station
=1*16.000kg/yr in total = 152.400 kg/yr

[245]- Are periodic leak detection and repair (LDAR) programs for fugitive emissions planned during the start-up phase? : Under consideration

[247]- Are steps planned to reduce venting from routine maintenance repairs when pipelines and or large vessels need to be depressurized during operation? : Under consideration

[248]- Does the operator plan to minimize the volume that has to be depressurized during venting? : Yes

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

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

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

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

[253]- Will LNG truck loading nitro injection or dry coupling used to avoid venting (LNG only)? : Not Applicable

[254]- Are LNG terminals BOG compressors used under normal operation conditions(LNG only)? : No

[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 : 

[277]- Permit granting: Permitting process took very long time and almost lead to an delay for the timely implementation of the project.

[278]- Financing :
[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: