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

[032]- OPEX Range (in %) : 5

[033]- Name of your representative in charge of the Project submission : George Test

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

[035]- Phone number of your representative in charge of the Project submission : 123456789

[036]- Project Website :

[037]- General Remarks :

Administrative Criteria :

[038]- 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 project4 or having a shareholding relation with this company5.

[042]- Company Existance (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-) Feasiblity study : Yes

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

- PCI

- FID

- National plan

[047]- Please provide any additional comments :

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 TEN-YEAR Transmission System Development Plan 2018-2027 Country A

[056]- Please indicate the unique identification number of your project in the NDP : N/A

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

[059]- NDP Release date : 01/05/2018

Enabler/Enhancer Projects :

[061]- Is this project an internal enabler? : No

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

Project Shareholders :

[069]- Project Section	[070]- Shareholder Name	[071]- Shareholder Share

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 :

[079]- Name of the section/phase	[080]- Length of the Pipe (in Km)	[081]- Diameter (in mm)	[082]- Additional Compressor Power (in MW)	[083]- Part of Variant	[084]- Comments	[085]- Comissioning Year	[086]- Modelling Commissioning Year
Complete	200	700	10	Test 1		2022	2022

[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

[155]- Is the project also part of the latest Energy Community PECI or PMI list? : Yes

Variant for Modelling :

[156]- Variant Name	[157]- Variant Description	[158]- Considered for Modelling
Test 1	Description Default	Yes

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

:

[159]- Transportable/storable gas	[160]- Share of selected gas/ total capacity [%]

Natural gas : 100

Hydrogen :

Synthetic methane :

Biomethane :

[161]- Operator	[162]- Point	[163]- Flow Direction	[164]- Status	[165]- Variant	[166]- Commissioning Year	[167]- Modelling Commissioning Year	[168]- Increment (GWh/d)	[169]- Peak Increment (GWh/d)	[170]- Comm
Trans-Adriatic Pipeline AG	Komotini - TAP / IGB	entry	Planned	Test 1	2022	2022	70	90	
Trans-Adriatic Pipeline AG	Komotini - TAP / IGB	exit	Planned	Test 1	2022	2022	80	90	

Cross Border Cost Allocation and Financial Assistance :

[171]- 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

[172]- {if option 1, 2 or 3} When the investment request was submitted/or you plan to submit it? : 17/06/2018

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

[174]- If option 1), please provide CBCA Decision Website : http://https://Acer.europe.eu/official_documents

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

- Cyprus

- Greece

[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) :

- (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 :

[202]- Date of grant obtention for studies/for works :

[203]- Comments about the schedule, including Realisation Conditions :

[204]- Compared to previous TYNDP indicate if your project is : On time

[205]- Delay Explanation: :

Project Expected Impact :

[206]- Main Project Driver(s) :

- Market Demand

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

[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 : The project is mainly driven by market demand but it will also lead to more competition.

[213]- Impacted countries and relevant information. : Denmark and Germany

[214]- 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.

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

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

[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? :

- market functioning and customer services

[231]- 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 :

[270]- Agreement Name	[271]- Signed	[272]- Date	[273]- Description	[274]- Other comments

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 :