

From: ENTSOG Communications <ENTSOG.Communications=entsog.eu@cmail20.com>
on behalf of ENTSOG Communications <ENTSOG.Communications@entsog.eu>
Sent: 14 October 2016 15:47
To: ENER B1 SECRETARIAT
Subject: * WEBINAR MATERIAL AVAILABLE * Joint ENTSOs Webinar on Request for input:
Going from assumptions to data - Define with us the TYNDP 2018 scenarios



Personal Invitation

*** WEBINAR MATERIAL AVAILABLE * Joint ENTSOs Webinar on Request for input: Going from assumptions to data - Define with us the TYNDP 2018 scenarios**

Dear Sir or Madam,

The ENTSO for gas and electricity have gathered significant feedback in the past 6 months from stakeholders on the assumptions and storylines of the 2030 and 2040 scenarios for the TYNDPs 2018.

In a following step, the ENTSOs have invited stakeholders to express their views on how to interpret that feedback in recent weeks, through:

1. An online questionnaire where stakeholders could provide their views for all parameters for the three scenarios the ENTSOs chose to consider for the TYNDPs 2018

2. A webinar where the ENTSOs have:

- explained how the previous feedback from stakeholders was considered
- presented the chosen TYNDP 2018 scenarios
- gathered additional feedback directly in the webinar through polls
- explained the next steps in the scenario development process

This phase has now concluded and ENTSOG would like to thank all participants who have actively contributed to this process.

Here you can find the outcomes of the polls during the webinar and the presented material.

Results from the online questionnaire will be made soon available.

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[REDACTED]

From: [REDACTED] (ENER)
Sent: 25 August 2016 16:31
To: ENER B1 GAS TEAM; ENER B1 ELECTRICITY TEAM; [REDACTED] (ENER); [REDACTED] (ENER)
Cc: [REDACTED] (ENER); [REDACTED] (ENER); [REDACTED] (ENER)
Subject: Scenario for 2018 TYNDPs - an update

Dear Colleagues

With [REDACTED] we met ENTSOs to follow up on the idea of having their 2018 TYNDP modelling aligned with the PRIMES [the "policy scenario", not the "reference" one].

The ENTSOs are keen to have an alignment but still to be seen what will be feasible. There seem to be two options: (a) one of the three scenario used in TYNDP would mirror our PRIMES policy scenario, or (b) all three scenario would use elements/input from PRIMES data but none of them would be reflecting PRIMES "one-to-one". We stressed that option (a) would be preferred, least to be able to see what infrastructure developments are most compatible with the Commission's vision.

ENTSOs will assess if one from one of the three now shortlisted scenarios ("Global climate action"; "Sustainable Transition"; "Distributed Generation") could be considered as mirroring the PRIMES policy scenario. To enable these analysis, Kostis will now provide an indication of how the Policy scenario would score against the criteria ENTSOs used to design the initial scenarios (see below).

ENTSOs will run a stakeholders workshop mid-October to further agree with the stakeholders on how the individual criteria should be measured. With this and on the basis of the data describing our Policy scenario one will be able to see if option (a) can be followed. In any case the ENTSOs will need the underlying (detailed) PRIMES data shortly after the October workshop (hopefully A4 will by that time have a green light to share the data). ENTSOs apparently have already used the reference scenario data kindly provided by A4 colleagues to assess if the data from PRIMES would be sufficient for their modelling [they are working on a report document] and it broadly seem compatible.

ENTSOs will want to issue the 2018 TYNDP scenario report by mid-2017 (for consultation and a then final version in Q3 2017)

Best regards
[REDACTED]

[REDACTED]

[REDACTED]

Overview of the current story lines

Scenario		Global climate action	Subsidized Green Europe	Sustainable Transition	Behind Targets	Distorted Generation
Category	Criteria	Paris Agreement				
Macroeconomic Trends	driven by	Global ETS	Global ETS & direct RES subsidies	EU ETS & direct RES subsidies	Climate action low	EU ETS
	2050 target?	Yes	Yes	Significantly behind	Behind	Yes
	Economic conditions	High growth	High growth	Moderate growth	Low growth	High growth
Transport	Electric and hybrid vehicles	High growth	High growth	Moderate growth	Low growth	Very high growth
	Gas vehicles and shipping	High growth	High growth	Moderate growth	Low growth	Very high growth
Residential / Commercial	Demand flexibility	High growth	High growth	Moderate growth	Low growth	Very high growth
	Electric heat pump	Moderate growth	Very high growth	Low growth	Low growth	Moderate growth
	Energy efficiency	Moderate growth	Very high growth	Moderate growth	Low growth	High growth
	Hybrid heat pump	Very high growth	Moderate growth	Moderate growth	Low growth	Very high growth
Industry	electricity demand	Stable	Favourable development	Stable	Stable	Favourable development
	gas demand	Stable	Reduction	Stable	Stable	Reduction
	demand flexibility	Moderate growth	Low growth	Low growth	Low growth	Very high growth
Power	Merit order	Gas before coal	In par	Gas before coal	Coal before gas	Gas before coal
	Nuclear	Potential for growth	Stable	Minimum new units	Reduction	Reduction
	Storage	Moderate growth	High growth	Low growth	Low growth	Very high growth
	Wind	High growth	Very high growth	Moderate growth	Low growth	High growth
	Solar	High growth	Very high growth	Moderate growth	Low growth	Very high growth
	CCS	Not significant	Not significant	Not significant	Not significant	Not significant
	Adequacy	Some surplus capacity	High surplus capacity	Some surplus capacity	Low surplus capacity	High surplus capacity
Gas Supply	Power-to-gas	High growth	High growth	Not significant	Not significant	High growth
	Shale Gas	Not significant	Not significant	High growth	Low growth	Not significant
	Bio Methan	High growth	High growth	High growth	Not significant	High growth

<http://www.entsog.eu/public/uploads/files/publications/TYNDP/2016/ENTSOs%20proposed%202040%20scenarios.pdf>

Policy Coordinator



European Commission

DG Energy

Unit B1 Networks & Regional Initiatives

Office DM
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Overview of the current story lines

Scenario		Global climate action	Subsidized Green Europe	Sustainable Transition	Behind Targets	Distributed Generation
Category	Criteria	Parameter				
Macroeconomic Trends	Climate action driven by	Global ETS	Global ETS & direct RES subsidies	EU ETS & direct RES subsidies	Climate action low	EU ETS
	EU on track to 2050 target?	Yes	Yes	Slightly behind	Behind	Yes
	Economic conditions	High growth	High growth	Moderate growth	Low growth	High growth
Transport	Electric and hybrid vehicles	High growth	High growth	Moderate growth	Low growth	Very high growth
	Gas vehicles and shipping	High growth	High growth	Moderate growth	Low growth	Very high growth
Residential / Commercial	Demand flexibility	High growth	High growth	Moderate growth	Low growth	Very high growth
	Electric heat pump	Moderate growth	Very high growth	Low growth	Low growth	Moderate growth
	Energy efficiency	Moderate growth	Very high growth	Moderate growth	Low growth	High growth
	Hybrid heat pump	Very high growth	Moderate growth	Moderate growth	Low growth	Very high growth
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	gas demand	Stable	Reduction	Stable	Stable	Reduction
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<http://www.entsog.eu/public/uploads/files/publications/TYNDP/2016/ENTSOs%20proposed%202040%20scenarios.pdf>

Policy Coordinator



European Commission

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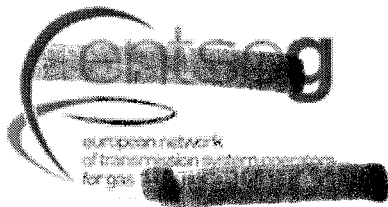
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1

1

[REDACTED]

From: ENTSG General Manager <General-Manager=entsog.eu@cmail20.com> on behalf of ENTSG General Manager <General-Manager@entsog.eu>
Sent: 07 January 2016 19:27
To: ENER B1 REGIONAL GROUPS
Subject: *REMINDER & PRESENTATIONS AVAILABLE * 11th TYNDP/CBA Workshop and 1st SJWS for TYNDP 2017



Personal invitation

*** REMINDER & PRESENTATIONS AVAILABLE * 11th TYNDP/CBA Workshop and 1st SJWS for TYNDP 2017**

Dear Sir and Madam,

The European Network of Transmission System Operators for Gas (ENTSG) is pleased to invite you to participate to a 2-day event dedicated to TYNDP 2017 on **12 and 13 January 2016** in Brussels:

- **11th TYNDP/CBA Workshop** (rescheduled from 25 November) on day 1
- **1st Stakeholder Joint Working Session (SJWS#1)** for TYNDP 2017 on day 2

In the 11th TYNDP/CBA Workshop, the European Commission and ACER will provide their feedback on TYNDP 2015, along with their recommendations for TYNDP 2017 and ENTSOG will present the foreseen directions for improvement for TYNDP 2017.

Presentation are available [here](#).

The venue for this event is the **Thon Hotel EU, Rue de la Loi 75, 1040 Brussels. Lunch will be provided at 12.00**

An agenda is available in the **Agenda Area**.

We are looking forward to your participation to this event.

To register for the event, please fill in the registration form [here](#). In case you are not attending both days please inform Mirsada Spaho: mirsada.spaho@entsog.eu

The deadline for the registration is **8th January 2016**.

The event will be webcasted, in order to participate please register [here](#). Please note that you should register either for physical attendance or webcast.

Please note that as part of the TYNDP 2017 Stakeholder Engagement [REDACTED]
Stakeholder Joint Working Sessions will take place on the following dates:

- SJWS#2 on 26 January in Brussels (focus: supplies and introduction to modelling)
- SJWS#3 on 9 February in Vienna
- SJWS#4 on 23 February
- SJWS#5 on 1 March

Yours sincerely,

[REDACTED]
[REDACTED]

[REDACTED]
[REDACTED]

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From: ENTSG Communications <ENTSG.Communications=entsog.eu@cmail19.com>
on behalf of ENTSG Communications <ENTSG.Communications@entsog.eu>
Sent: 28 October 2016 15:20
To: ENER B1 REGIONAL GROUPS
Subject: * PRESS RELEASE * Explore the map of the TYNDP 2017-projects and learn more about the related scenarios

Follow Up Flag: Follow up
Flag Status: Flagged



Press Release

Explore the map of the TYNDP 2017-projects and learn more about the related scenarios

Explore the map of the TYNDP 2017-projects and learn more about the related scenarios

(Brussels, 28 October 2016, PR0119-16) **In December this year, ENTSG will publish the full TYNDP 2017. In line with ENTSG's strong commitment to high transparency in its development stakeholders were presented with all TYNDP input data including scenarios and projects information as early as July this year. A new map showing the TYNDP 2017 projects is now available on ENTSG's web site!**

Before the integrated network is modelled and TYNDP is published, developing a comprehensive scenario and defining the data are essential. Starting in January this year, stakeholders engaged in five working sessions organised by ENTSG to discuss the necessary information. In April ENTSG launched the project data collection.

In July stakeholders were presented with all the related data. ENTSG has now complemented this information with a new map showing the TYNDP 2017 projects. As part of TYNDP, these projects will be assessed against the three retained scenarios which all represent possible paths to achieving the EU targets. To visualise the TYNDP 2017 projects and learn more about the TYNDP 2017 scenarios, go to: **Link to ENTSG homepage.**

Jan Ingwersen, ENTSG General Manager, said, *"All scenarios used for modelling in the TYNDP are fully in line with the EU climate targets. ENTSG has now increased its transparency and, for the first time, depicted all projects on an electronic map. With this map ENTSG is contributing to a transparent PCI selection process."*

Should you require any further information, please contact Stefan Greulich (+32 2 894 5106,

stefan.greulich@entsog.eu).

Stakeholders interested in the development of the European gas infrastructure can still order the ENTSG System Development Map available online following this link (<http://maps.entsog.eu/nl/dynamicform>).

Editorial notes

- > ENTSG was founded on 1 December 2009 in line with Regulation (EC) 715/2009. The current number of Members, Associated Partners and Observers can be found **at this link**.
- > In line with Articles 6, 7 and 8 of the Regulation (EC) 715/2009, ENTSG has the task of formulating network codes in a number of areas and of adopting various communications: a non-binding community-wide Ten-Year Network Development Plan on biennial basis; Winter and Summer Supply Outlooks; common network operation tools; recommendations relating to the coordination of technical cooperation between community and third-country-TSOs; annual work programmes and annual reports.

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From: ENTSOG Communications <ENTSOG.Communications=entsog.eu@cmail20.com>
on behalf of ENTSOG Communications <ENTSOG.Communications@entsog.eu>
Sent: 14 October 2016 11:31
To: ENER B1 REGIONAL GROUPS
Subject: * PRESS RELEASE * European natural gas system ready for the winter 2016/17



Press Release

European natural gas system ready for the winter 2016/17

(Brussels, 14 October 2016, PR0117-16) ENTSOG adopted its Winter Supply Outlook 2016/17 and the accompanying Winter Review 2015/16.

European natural gas infrastructures and storage levels on October 1st offer high enough flexibility to cover the demand over a cold winter and to supply Ukraine with significant volumes of gas.

ENTSOG also assessed the capability of the European natural gas system to cope with high demand situations such as a peak day or a 2-week cold spell.

In the hypothetical case of a transit disruption through Ukraine under a high demand situation, South-Eastern Europe would be strongly impacted.

ENTSOG cooperates with ENTSO-E to assess the possible impact of such a disruption on the gas and electricity systems, through their respective Winter Outlooks.

ENTSOG Winter Supply Outlook is published annually following Article 8(3)(f) of Regulation (EC) 715/2009, to provide a valuable overview of the European natural gas transmission network for the upcoming winter.

Jan Ingwersen, ENTSOG General Manager, said:

"The Winter Supply Outlook 2016/17 shows that, thanks to the gas infrastructure, shippers are able to meet high demand situations in every country under various supply conditions."

The Winter Supply Outlook 2016/17 is available **here**.

Should you require any further information please contact Arturo de Onís (+32 2 894 5114) or Louis Watine (+32 2 894 5115) or e-mail to **media@entsog.eu**.

Editorial notes

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number of Members, Associated Partners and Observers can be found **at this link**.

> In line with Articles 6, 7 and 8 of the Regulation (EC) 715/2009, [REDACTED]
formulating network codes in a number of areas and of adopting various communications; a non-binding community-wide Ten-Year Network Development Plan on biennial basis; Winter and Summer Supply Outlooks; common network operation tools; recommendations relating to the coordination of technical cooperation between community and third-country-TSOs; annual work programmes and annual reports.

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From: ENTSOG Communications <ENTSOG.Communications=entsog.eu@cmail20.com>
on behalf of ENTSOG Communications <ENTSOG.Communications@entsog.eu>
Sent: 20 December 2016 13:01
To: ENER B1 SECRETARIAT
Subject: * PRESS RELEASE * ENTSOG publishes TYNDP 2017 and opens consultation



Press Release

ENTSO-G publishes TYNDP 2017 and opens consultation

(Brussels, PR0122-16) **Today ENTSOG publishes TYNDP 2017 which confirms that the current gas infrastructure is close to achieving the infrastructure-related element of the internal gas market. In the specific areas where persistent long-term investment needs are identified, the necessary projects are shown to be included in the TYNDP 2017. From today, TYNDP 2017 is open for a 6-week public consultation.**

TYNDP 2017 looks at the next twenty years. It assesses the European supply adequacy and the resilience of the system. It identifies if and where investment gaps remain, and how submitted projects mitigate these gaps.

The European gas infrastructure shows high resilience and is well equipped to support Europe in achieving its energy and climate ambitions. It is connected to diversified low-carbon energy sources, benefits from large storage capabilities, high cross-border energy transmission and peak-demand management capabilities and is highly interconnected across most of Europe. Its integration with the power, heat and mobility infrastructure will support the decarbonization of the European energy system.

In the specific areas where further investments are needed, the projects addressing these needs are part of this TYNDP 2017. Most of them are already at an advanced stage of development. The investment costs required to complete the integration of the European gas infrastructure are estimated to be below 20 bn€. Together with a limited number of large-scale import projects, these investments will bring secure, affordable, diversified and competitive low carbon energy to all European citizens. They will provide the stimulus for further development of the gas market and will be able to complement the renewable energy development.

Jan Ingwersen, ENTSOG General Manager, said, *"It is paramount that the European gas infrastructure is considered in the perspective of the completion of the Internal Energy Market as well as the contributions it can bring to the European climate and energy policy."*

Publication of ENTSO-E TYNDP 2016 and ENTSOG TYNDP 2017 are taking place on the same day. Both TYNDPs will play a key role in the 3rd PCI selection process recently initiated by the

European Commission. The TYNDPs assesses the gas and electricity infrastructure under scenarios which represent different paths towards achieving the EU [REDACTED] targets. These scenarios have been established in close dialogue between the ENTSOs.

Learn more on TYNDP 2017 by reviewing the whole package, composed of the Executive Summary, Main Report and Annexes, **at this link** on ENTSG website.

Involvement and transparency towards stakeholders is a key feature of developing TYNDP. **You are now welcome to take part to the online public consultation on the TYNDP report, opened from today until 3 February, at this link.**

ENTSG also invites you to join its TYNDP presentation day on 23 January 2017.

Your feedback, together with ACER Opinion, will support ENTSG for publishing the final version of TYNDP 2017 in April 2017 and developing the next TYNDP edition to be published in the second half of 2018.

Should you require any further information please contact Celine Heidreich (+32 2 894 5130 or media@entsog.eu).

Editorial notes

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EUROPEAN COMMISSION
DIRECTORATE-GENERAL FOR ENERGY

Directorate B - Internal Energy Market
The Director

Brussels, 18 July 2016
ENER.B1/MM/la Ares s(2016)4183317

[REDACTED]
ENTSOG
[REDACTED]

Subject: DG Energy's request for CBA modelling by ENTSOG in support of the PCI identification

Dear Mr [REDACTED]

In the framework of Regulation 347/2013 setting guidelines for trans-European energy infrastructure (the "Regulation") a clear process is established ultimately leading to the identification of the "Projects of Common Interest" ("PCIs"). In particular the promoters of a project potentially eligible for being identified as PCI (the "Project Promoters") are expected to submit the relevant application to the Regional Group including, inter alia, "for projects having reached a sufficient degree of maturity, a project-specific cost-benefit analysis based on the methodologies developed by the ENTSOs". The Regional Groups evaluate the applications and the decision-making body of the Group adopt a regional list of proposed PCIs. On the basis of the regional lists, the Commission adopts the Union list of PCIs in a form of a delegated act, part of the Regulation.

The cost-benefit analysis of PCI candidates is an essential element of the PCI identification process and hence the importance of ensuring the quality and consistency of the analysis in case of all the candidates. The ENTSOs, with their particular expertise, have an important role to play here. In line with Article 11 of the Regulation each ENTSO develops and publishes methodology for a harmonised energy system-wide cost-benefit analysis at Union level (the "CBA"). The CBA should be applied for the preparation of each subsequent ten-year network development plan developed by the ENTSOs. ENTSOG in particular published the CBA methodology on 13 February 2015.

Indeed already for the second round of the PCIs identification ENTSOG was entrusted with providing the necessary CBA modelling results to Project Promoters. This was necessary due to the technical complexity of the modelling approach but also the short time available to run the assessment. Taking into account the methodological complexity

of this modelling, we would like ENTSG to drive the process in the forthcoming, third PCI identification round and to provide the modelling results to each Project Promoter and the Commission. When required by the process, the Commission would make these results available to the Regional Groups. In particular the results depicting benefits per individual Member State will be important to determine the cross-border relevance and impact of the proposed projects.

In order to facilitate the PCI identification it is essential that the project specific results are presented in a way that Project Promoters and other members of Regional Groups can easily derive the benefits of the projects. It is also important that the results can be meaningfully compared with the costs of the underlying projects. In this context, ENTSG should be relevant after discussing within Regional Groups, the monetary value of the benefits represented by the CBA indicators. Furthermore, for each PCI candidate ENTSG should quantify the total amount of monetised benefits (welfare gains) under one or several specific configuration discussed with the Regional Groups. This will serve as a basis for verification if the costs outweigh the expected benefits.

Carrying out the CBA modelling by ENTSG on behalf of Project Promoters appears to be the most practicable approach currently available. This approach was presented and received positively by participants of the Cross-regional Group meeting on 4 Feb. 2016.

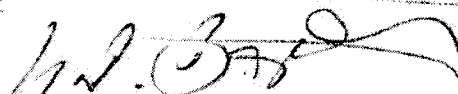
In this context, I invite ENTSG to perform for projects being candidates to the PCI status the calculation of CBA results relating to benefits. For that ENTSG should use the data from the TYNDP 2017.

The results will in particular be sent by ENTSG to each Project Promoter for its own project(s) in order to let them finalise the Project Specific Step of the CBA methodology. It will be vital for the quality of the final outcome that ENTSG remains available to assist Project Promoters also at this stage of the process. Furthermore, considering that the results stemming from the modelling is an important input to the PCI identification, ENTSG shall: (a) propose a good method for interpreting the results of individual indicators against the criteria from Article 4 of the Regulation, and (b) propose an economically sound mechanism for the valuation of the specific results for the indicators in order to make the comparison of results feasible for the Regional Groups. This should be done under one or several specific configuration as discussed with the Regional Groups.

As experienced in the 2nd PCI identification process, clustering of PCI candidates is an important factor for the results of CBA. It is therefore imperative to ensure that there is a consistent approach applied in case of all PCI candidates that expect to be clustered and assessed together with other candidates. I invite ENTSG to draw on its experience with TYNDP projects and to propose rules for clustering to be subsequently discussed with the Regional Groups.

Finally, it is worth highlighting that the outcome of the CBA, including the elaboration that Project Promoters will perform based on ENTSOG results will be an important input to the PCI identification process but arriving at definite results in relation to the PCI label will require further work in the format of the Regional Groups. I would much welcome ENTSOG continued support and assistance to this work. The success of the PCI identification exercise is important for all of us and I am confident that the existing good and close cooperation between ENTSOG and DG Energy will continue throughout this process.

Yours sincerely,

A handwritten signature in black ink, appearing to read 'K.D. Borchardt', with a long horizontal line extending from the end of the signature.

Klaus-Dieter Borchardt

Cc:

Mrs [REDACTED] Mr [REDACTED] Mr [REDACTED] (ENER)

[REDACTED] [REDACTED] [REDACTED]

[REDACTED]

From: [REDACTED] (ENER)
Sent: 23 February 2016 16:53
To: ENER B1 GAS TEAM; [REDACTED] (ENER)
Subject: key take outs from the stakeholders' workshop on TYNDP by ENTSO G

I went to one session of ENTSG stakeholders' workshop for TYNDP this morning. [REDACTED] and [REDACTED] were explaining the TYNDP assessment and individual indicators.

You can access the (good) slides used at:

http://www.entsog.eu/public/uploads/files/publications/Events/2016/TYNDP039_160223_SJWS_4_Part_3_Outputs_VoLL_Final.pdf

Some interesting/important information that transpired during the session:

- Three demand scenarios assumed for assessment (Green, Blue, Slow) but ENTSG still to decide if all three will be factored in. In the end they may run analysis for one demand scenario only (hopefully not the Slow Progression...).
- A remark from a stakeholder: "even the Green Revolution scenario (which corresponds to the Commission's energy and climate target) falls short from what agreed in Paris". It seems to be a valid point – implications of COP21 on EU infra needs should at least be considered in our reflections on infra needs. [I'll check with A4 if it might have been already modelled]
- ENTSG proposed a methodology for calculating the value of lost load (for supply disruption and lack of flexibility=> demand not satisfied). In TYNDP2015 they applied a mathematical value of 105 000 EUR/GWh. Now they approximate that the value of 1 GWh lost for economy (on average across the EU) by dividing the total GDP by gross inland energy consumption. This way 1GWh lost amounts to ca 670 000 EUR loss from GDP perspective. ENTSG stressed that the approach is far from perfect but suggested to keep for its simplicity and similarity to what e.g. EIB uses in due diligence. The regulators seemed not convinced and will still revert to ENTSG but in general it seems to be a step in right direction (useful assumption for monetising benefits)
- Some good news: ENTSG intends to factor in the price differential on a given import route i.e. recognising that e.g. Slovakia pays more for RU gas than Germany. With this the CBA would value projects that increase diversification/competition in case of countries with high dependence on a single source. Their PPT on this issue at:

http://www.entsog.eu/public/uploads/files/publications/Events/2016/TYNDP039_160223_SJWS_4_Import_spread_configuration_Final.pdf

I did not stay in the afternoon when they were actually to discuss the price differential hence I do not know (yet) the reactions of stakeholders. I'll check with ENTSG if there would have been unexpected reactions

Best regards

[REDACTED]
Policy Coordinator



European Commission

DG Energy

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[REDACTED]

[REDACTED] [REDACTED]

[REDACTED]

From: ENTSOG General Manager <General-Manager=entsog.eu@cmail19.com> on behalf of ENTSOG General Manager <General-Manager@entsog.eu>
Sent: 09 January 2017 15:43
To: ENER B1 REGIONAL GROUPS
Subject: Invitation to the presentation of TYNDP 2017 [REDACTED]



Personal Invitation

Invitation to the presentation of TYNDP 2017

Dear Sir and Madam,

ENTSOG is pleased to invite you to the presentation of its TYNDP 2017 on **23 January 2017 (13.30 – 17.00)**.

The event will take place at the ENTSOG premises, Avenue Cortenbergh 100, 1000 Brussels.

On 20 December ENTSOG published its TYNDP 2017 package, available **at this link**, which has already triggered a number of reactions.

If you want to learn more about what the current gas infrastructure already achieves, how ENTSOG developed TYNDP 2017 in line with the EU 2030 energy and climate targets, which are the specific areas of Europe where investment gaps remain and how projects submitted to TYNDP mitigate these gaps, **join us and interact with us on 23 January 2017**.

For further questions please contact James Gudge at **james.gudge@entsog.eu**.

If you want to attend the meeting in person, please fill in the registration form in the Registration area, available **here**.

This event will be webcasted. In order to follow this live please register via Webcast Area **here**.



The deadline for the registrations is 19 January 2017.

For any questions regarding registrations and logistics please contact Mirsada Spaho: **mirsada.spaho@entsog.eu**.




We are looking forward to your participation.

We would also like to remind you that you are welcome to take part to the **online public consultation** on the TYNDP 2017 report, which is open until 3 February 2017.

Yours sincerely,

11 Dec 2014 14:09

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For inquiries, please contact
the ENTSOG Secretariat:
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[REDACTED]

From: [REDACTED] (ENER)
Sent: 28 October 2016 18:15
To: ENER B1 GAS TEAM
Cc: [REDACTED] (ENER)
Subject: Finally, the map has arrived!
Attachments: TYNDP053-161021_ENTSOG_TYNDP2017-Map_A0_1189x841.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Dear Colleagues,

Finally! ENTSOG has just published the TYNDP 2017 map which provides projects with both the PCI status and the TYNDP number (attached).
This will simplify things for us, RG members and stakeholders in the selection process of PCIs for the third Union list.

At the next visit at ENTSOG we should take paper copies...some of us have it already on the wall but in a draft format only!

[REDACTED]

From: ENTSOG Communications [<mailto:ENTSOG.Communications=entsog.eu@cmail19.com>] **On Behalf Of** ENTSOG Communications
Sent: Friday, October 28, 2016 3:20 PM
To: [REDACTED]
Subject: * PRESS RELEASE * Explore the map of the TYNDP 2017-projects and learn more about the related scenarios



Explore the map of the TYNDP 2017-projects and learn more about the related scenarios

Explore the map of the TYNDP 2017-projects and learn more about the related scenarios

(Brussels, 28 October 2016, PR0119-16) In December this year, ENTSOG will publish the full TYNDP 2017. In line with ENTSOG's strong commitment to high transparency in its development stakeholders were presented with all TYNDP input data including scenarios and projects information as early as July this year. A new map showing the TYNDP 2017 projects is now available on ENTSOG's web site!

Before the integrated network is modelled and TYNDP is published, developing a comprehensive scenario and defining the data are essential. Starting in January this year, stakeholders engaged in five working sessions organised by ENTSOG to discuss the necessary information. In April ENTSOG launched the project data collection.

In July stakeholders were presented with all the related data. ENTSOG has now complemented

this information with a new map showing the TYNDP 2017 projects. As part of TYNDP, these projects will be assessed against the three retained scenarios which all represent possible paths to achieving the EU targets. To visualise the TYNDP 2017 projects and learn more about the TYNDP 2017 scenarios, go to: **Link to ENTSG homepage.**

Jan Ingwersen, ENTSG General Manager, said, *"All scenarios used for modelling in the TYNDP are fully in line with the EU climate targets. ENTSG has now increased its transparency and, for the first time, depicted all projects on an electronic map. With this map ENTSG is contributing to a transparent PCI selection process."*

Should you require any further information, please contact Stefan Greulich (+32 2 894 5106, stefan.greulich@entsog.eu).

Stakeholders interested in the development of the European gas infrastructure can still order the ENTSG System Development Map available online following this link (<http://maps.entsog.eu/nl/dynamicform>).

Editorial notes

- > ENTSG was founded on 1 December 2009 in line with Regulation (EC) 715/2009. The current number of Members, Associated Partners and Observers can be found **at this link**.
- > In line with Articles 6, 7 and 8 of the Regulation (EC) 715/2009, ENTSG has the task of formulating network codes in a number of areas and of adopting various communications: a non-binding community-wide Ten-Year Network Development Plan on biennial basis; Winter and Summer Supply Outlooks; common network operation tools; recommendations relating to the coordination of technical cooperation between community and third-country-TSOs; annual work programmes and annual reports.

Publisher: ENTSG AISBL

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For inquiries, please contact
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From: [REDACTED] (ENER)
Sent: 12 September 2016 14:21
To: ENER B1 GAS TEAM; [REDACTED] (ENER)
Subject: correspondence between PCI and TYNDP Gas projects
Attachments: Working document - Correspondence TYNDP code - PCI label.xlsx

Follow Up Flag: Follow up
Flag Status: Flagged

Colleagues

Please see attached a very useful overview of how the definition of the concrete gas PCI has been evolving over time.
The file prepared by ENTSOG

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Working document

5. NSI West Gas

project not in PCI List but in TYNDP2017

	No 2nd PCI List	2nd PCI List - ENTSG CODE	2nd PCI List - PCI CODE	2nd PCI List - DESCRIPTION	TYNDP 2017 - ENTSG CODE	TYNDP 2017 - PCI CODE	TYNDP 2017 - PROJECT NAME	TYNDP 2017 - PROMOTER
1		TRA-N-059	5.1.1	5.1.1 Physical reverse flow at Moffat interconnection point (IE/UK)	TRA-N-829	PC 3.1.1/Tran-N-059	PC 3.1.1 Physical Reverse flow at Moffat interconnection point (IE/UK)	GN UK Limited
2	5.1	TRA-N-027	5.1.2	5.1.2 Upgrade of the SNIP (Scotland to Northern Ireland) pipeline to accommodate physical reverse flow between Ballyunford and Tynholm	TRA-N-1054	TRA-N-532	Moffat Physical Reverse Flow	National Grid Gas plc
3		TRA-N-294	5.1.3	5.1.3 Development of the Islandmagee Underground Gas Storage (UGS) facility at Larne (Northern Ireland)	TRA-N-027	5.1.2	Physical reverse flow from Northern Ireland to Great Britain and Republic of Ireland	Premier Transmission Limited
4	5.3	UGS-N-030	5.3	Shannon LNG Terminal and connecting pipeline (IE)	UGS-N-294	5.1.3	Islandmagee Gas Storage Facility	Handmagee Storage Limited
5		TRA-N-168	5.4	3rd interconnection point between Portugal and Spain	UGS-N-030	Project Code 5.3 under Commission Delegated Regulation (EU) No 1381/2013	Shannon LNG Terminal and Connecting Pipeline	Shannon LNG
6	5.4	TRA-N-283	5.4	3rd IP between Portugal and Spain (Compressor Station)	TRA-N-168	5.4	Interconnection ES-PT (3rd IP) - 1st phase	Enagás Transporte, S.A.U.
7		TRA-N-284	5.4	3rd IP between Portugal and Spain (Compressor Station)	TRA-N-283	5.4	3rd IP between Portugal and Spain (pipeline Celorico-Spanish border)	REN-Gasodutos, S.A.
8		TRA-N-285	5.4	3rd IP between Portugal and Spain (pipeline Cantanhede-Mangualde)	TRA-N-284	5.4	3rd IP between Portugal and Spain (Compressor Station)	REN-Gasodutos, S.A.
9	5.5	TRA-N-161	5.5	Eastern Axis Spain - France - interconnection point between Iberian Peninsula and France at La Perrière, including the compressor stations at Montpellier and St. Martin de Grau (currently known as "Midcat")	TRA-N-285	5.4	Interconnection ES-PT (3rd IP) - 2nd phase	Enagás Transporte, S.A.U.
10		TRA-N-252	5.5	0	TRA-N-161	5.5	3rd IP between Portugal and Spain (pipeline Cantanhede-Mangualde)	REN-Gasodutos, S.A.
11		TRA-N-256	5.5	0	TRA-N-252	5.5	New interconnection between Spain and France - Name TBD	Enagás Transporte, S.A.U.
12	5.6	TRA-N-047	5.6	Reinforcement of the French network from South to North - Reverse flow from France to Germany at Obergaibach/Medelshelm Interconnection point (FR)	TRA-N-256	5.5	New interconnection between France and Spain - Name TBD	TIGF
13		TRA-N-043	5.7.1	5.7.1 Val de Saône pipeline between Etréat and Voisines (FR)	TRA-N-727	5.5	Iberian-French corridor: Eastern Axis - Midcat Project	Enagás Transporte, S.A.U.
14	5.7	TRA-N-391	5.7.2	5.7.2 Gascoigne-Midi pipeline (FN)	TRA-N-047	5.6	Iberian-French corridor: Eastern Axis-Midcat Project	GRt gaz
15		TRA-N-391	5.7.2	Gascoigne-Midi: adaptation of stations in Cruzy and St Martin	TRA-F-43	5.7	Val de Saône project	GRt gaz
16					TRA-F-331	5.7.2	Gascoigne-Midi	TIGF - GRt gaz
17					TRA-F-391	5.7	Gascoigne-Midi: adaptation of stations in Cruzy and St Martin	GRt gaz
18	5.10	TRA-N-208	5.10	Reverse flow interconnection on TENP pipeline in Germany				
19	5.11	TRA-F-214	5.11	Reverse flow interconnection between Italy and Switzerland at Passo Gries interconnection point	TRA-F-208	5.10	Reverse flow TENP Germany	Fluys TENP GmbH & Open Grid Europe GmbH
20	5.19	LNG-N-211 and/or TRA-N-031	5.19	Connection of Malta to the European Gas network - pipeline interconnection with Italy at Gela and/or offshore floating LNG Storage and Re-gasification Unit (FSRU)	TRA-F-214	5.11	Support to the North West market and bidirectional cross-border flows	Snam Rete Gas S.p.A.
21	5.20	TRA-N-012	5.20	Gas Pipeline connecting Algeria to Italy (via Sardinia) (currently known as "Galsi" pipeline)	TRA-N-031	5.19	Connection of Malta to the European Gas Network - Pipelines	Office of the Prime Minister (Energy)
22					TRA-N-012	5.20	Galsi Pipeline Project	Galsi S.p.A.

6. NSI East Gas

	No 2nd PCI List	2nd PCI List - ENTSG CODE	2nd PCI List - PCI CODE	2nd PCI List - DESCRIPTION	TYNDP 2017 - ENTSG CODE	TYNDP 2017 - PCI CODE	TYNDP 2017 - PROJECT NAME	TYNDP 2017 - PROMOTER
1	6.1	TRA-N-136	0	6.1.1 Poland - Czech Republic interconnector (currently known as "Stork II") between Lubiszew - Hut (CZ/PL) - Rejterszyn (PL)	TRA-N-136	6.1.1, 6.1.12	Poland-Czech Republic Interconnection (CZ)	NETGAS s.r.o.
2		TRA-N-273	0	0	TRA-N-273	6.1.1, 6.1.2	Poland - Czech Republic Interconnection (PL section)	GAZ-SYSTEM S.A.
3		TRA-N-247	6.1.1	0	TRA-N-247	6.1.2	North - South Gas Corridor in Western Poland	GAZ-SYSTEM S.A.
4	6.2	TRA-N-190	6.2.1	6.2.1 Poland - Slovakia interconnector	TRA-N-190	6.2.1	Poland - Slovakia Interconnection	eurostream a.s.
5		TRA-N-275	6.2.2	6.2.2 Transmission infrastructure projects between Rembelskozyňa and Strachocina (PL)	TRA-N-275	6.2.1, 6.2.3	Poland - Slovakia Interconnection (PL section)	GAZ-SYSTEM S.A.
6		TRA-N-245	6.2.3	6.2.3 Transmission infrastructure projects between Twardog and Strachocina (PL)	TRA-N-245	6.2.3	North - South Gas Corridor in Eastern Poland	GAZ-SYSTEM S.A.
7	6.4	TRA-N-021	6.4	6.4 Bidirectional Austrian - Czech interconnection (BACI) between Baumgarten (AT) - Reintal (CZ/AT) - Breilav (CZ)	TRA-N-021	6.4	bidirectional Austrian-Czech interconnector (BACI, formerly LBL project)	GAS CONNECT AUSTRIA GmbH
8		TRA-N-133	6.4	0	TRA-N-133	6.4	bidirectional Austrian-Czech interconnector (BACI)	NETGAS s.r.o.
9	6.5	LNG-N-082	6.5.1	6.5.1 LNG Phased development of a LNG terminal in Kik (HR)	LNG-N-082	6.5.1	LNG terminal Kik	LNG Investicia d.o.o. za poslovanje ukapljenim prirodnim plinom
10		TRA-N-075	6.5.2	6.5.2 Gas pipeline Zlozin - Bosiljevo - Sisak - Kozarac - Sklodinska (HR)	TRA-N-075	6.5.2	LNG evaluation pipeline Zlozin-Bosiljevo-Sisak-Kozarac	Pinosco Ltd
11		TRA-N-378	6.8.1	6.8.1 Interconnection Greece - Bulgaria (currently known as IGB) between Komotini (EU) - Stara Zagora (BG)	TRA-F-378	6.8.1	Interconnector Greece-Bulgaria (IGB Project)	IGCB a.d.
12	6.8	TRA-N-298	6.8.2	6.8.2 Necessary rehabilitation, modernization and expansion of the Bulgarian transmission system	TRA-N-298	6.8.2	Rehabilitation, Modernization and Expansion of the National Transmission Sy	Bulgartransgaz EAD
13								
14		TRA-N-379	6.8.4	6.8.4 Gas pipeline aiming at expanding the capacity on the interconnection of the Northern Ring of the Bulgarian and Romanian gas transmission networks	TRA-N-379	6.8.4	A project for the construction of a gas pipeline (pipelines) aiming at exp	Bulgartransgaz EAD
15	6.9	LNG-N-062	6.9.1	6.9.1 LNG terminal in Northern Greece	LNG-N-062	6.9.1	LNG terminal in northern Greece / Alexandroupolis - LNG Section	gastrade S.A.
16		TRA-N-063	6.9.1	0	TRA-N-063	6.9.1	LNG terminal in northern Greece / Alexandroupolis - Pipeline Section	gastrade S.A.
17	6.10	TRA-N-128	6.9.3	6.9.3 Gas compressor station at Kipi (EL)	TRA-N-128	6.9.3, 7.1.2 and 7.4.1	Compressor Station Kipi	DESFA S.A.
18		TRA-N-137	6.10	6.10 PCI gas interconnection Bulgaria - Serbia (currently known as "IBS")	TRA-F-137	6.10	interconnection Bulgaria - Serbia	Ministry of Energy
19	6.15	TRA-N-139	6.15	6.15 PCI gas interconnection Bulgaria - Serbia (currently known as "IBS")	TRA-N-139	6.15	Interconnection of the national transmission system with the international	SNRTG Transgaz SA
20	6.18	TRA-N-007	6.18	6.18 Adriatic pipeline (IT)	TRA-N-007	6.18	Development for new import from the South (Adriatic Line)	Snam Rete Gas S.p.A.
21		UGS-N-198	6.20.2	6.20.2 Chren UGS expansion	UGS-N-198	6.20.2	UGS Chren expansion	Bulgartransgaz EAD
22	6.20	UGS-N-233	6.20.4	6.20.4 Deponeurs storage in Romania	UGS-N-233	6.20.4	Deponeurs	Enelie Romania SA
23		UGS-N-366	6.20.5	6.20.5 New underground gas storage in Romania	UGS-N-366	6.20.5	New underground gas storage in Romania	Societatea Națională de Gaze Naturale ROMGAZ S.A.
24		UGS-N-371	6.20.6	6.20.6 Sarmasel underground gas storage in Romania	UGS-N-371	6.20.6	Sarmasel underground gas storage in Romania	Societatea Națională de Gaze Naturale ROMGAZ S.A.
25	6.23	TRA-N-112	6.23	6.23 Hungary - Slovenia interconnection (Nagykanizsa - Tornyószentmiklós (HU) - Lendava (SI) - Kridičevo)	TRA-N-112	6.23	RIS/1 Pinco - Lendava - Kridičevo	Pinowell d.o.o.
26		TRA-N-325	6.23	0	TRA-N-325	6.23	Slovenian-Hungarian interconnector	PGSZ Ltd.
27		TRA-N-126	6.24.1	6.24.1 Romanian-Hungarian reverse flow Hungarian section 1st stage CS at Ciandpalota (1st phase)	TRA-N-126	6.24.1	Romanian-Hungarian reverse flow Hungarian section 1st stage	PGSZ Ltd.
28		TRA-N-358	6.24.2	6.24.2 Development on the Romanian territory of the National Gas Transmission System on the Bulgaria - Romania - Hungary - Austria Corridor - transmission pipeline Podgor - Horia GMS and 3 new compressor stations (Jupa, Bibești and Podgor) (1st phase)	TRA-N-358	Stage I: 6.24.2 Stage II: 6.24.7	Development on the Romanian territory of the NTS on the Bulgaria - Romania	SNRTG Transgaz S.A.
29		TRA-N-423	6.24.3	6.24.3 GCA Mosonmagyaróvár CS (development on the Austrian side) (1st phase)	TRA-N-423	6.24.3	GCA Mosonmagyaróvár	GAS CONNECT AUSTRIA GmbH
30	6.24	TRA-N-018	6.24.4	6.24.4 Városlőd-Ercs-Győr pipeline (HU) (2nd phase)	TRA-N-018	6.24.4	Városlőd-Ercs-Győr	PGSZ Ltd.
31		TRA-N-061	6.24.5	6.24.5 Ercs-Szabolcsbatta pipeline (HU) (2nd phase)	TRA-N-061	6.24.5	Ercs-Szabolcsbatta	PGSZ Ltd.
32		TRA-N-123	6.24.6	6.24.6 Városlőd compressor station (HU) (2nd phase)	TRA-N-123	6.24.6	Városlőd CS	PGSZ Ltd.
33		TRA-N-358	6.24.2	6.24.2 Development on the Romanian territory of the National Gas Transmission System on the Bulgaria - Romania - Hungary - Austria Corridor - transmission pipeline Podgor - Horia GMS and 3 new compressor stations (Jupa, Bibești and Podgor) (1st phase)	TRA-N-358	Stage I: 6.24.2 Stage II: 6.24.7	Development on the Romanian territory of the NTS on the Bulgaria - Romania	SNRTG Transgaz S.A.
34		TRA-N-377	6.24.9	6.24.9 Romanian-Hungarian reverse flow Hungarian section 2nd stage Ciandpalota or Agyó (HU) (2nd phase)	TRA-N-377	6.24.9	Romanian-Hungarian reverse flow Hungarian section 2nd stage	PGSZ Ltd.
35		TRA-N-362	6.24.8	6.24.8 Black Sea shore - Podgor (RO) for taking over the Black sea gas	TRA-N-362	6.24.8	Development on the Romanian territory of the Southern Transmission Corridor	SNRTG Transgaz SA
36		TRA-N-054	6.25.1	6.25.1 Pipeline system from Bulgaria to Slovakia (currently known as "Eastring")	TRA-N-054	6.25.1	Eastring - Bulgaria	Bulgartransgaz EAD
37		TRA-N-655	6.25.1	0	TRA-N-655	6.25.1	Eastring - Romania	SNRTG Transgaz SA
38		TRA-N-656	6.25.1	0	TRA-N-656	Not Defined yet	Eastring - Hungary	PGSZ Ltd.
39		TRA-N-628	6.25.1	0	TRA-N-628	6.25.1	Eastring - Slovakia	Eastring B.V.
40		TRA-N-631	6.25.2	6.25.2 Pipeline system from Greece to Austria (currently known as "Tesia")	TRA-N-631	6.25.2	Greek part of Tesia project	DESFA S.A.
41		TRA-N-582	6.25.2	0	TRA-N-582	6.25.2	Macedonian part of Tesia project	SKAMA joint stock company Skopje
42	6.25	TRA-N-585	6.25.2	6.25.2 Pipeline system from Greece to Austria (currently known as TESIA)	TRA-N-585	6.25.2	Hungarian section of Tesia project	PGSZ Ltd.
43				6.24.2 Development on the Romanian territory of the National Gas Transmission System on the Bulgaria - Romania - Hungary - Austria Corridor - transmission pipeline Podgor - Horia GMS and 3 new compressor stations (Jupa, Bibești and Podgor) (1st phase)	TRA-N-358	Stage I: 6.24.2 Stage II: 6.24.7	Development on the Romanian territory of the NTS on the Bulgaria - Romania	SNRTG Transgaz S.A.
44		TRA-N-592	6.25.4	6.25.4 Infrastructure to allow the development of the Bulgarian gas hub	TRA-N-592	6.25.4	Looping CS Vatchi Dol - Line valve Novi Iskar	Bulgartransgaz EAD
45								
46								

