

# **TYNDP 2017**

## **Stakeholder Engagement Review**

**Stefan Greulich**  
**System Development Adviser**



# **TYNDP 2015 Consultation**

# Public consultation: points covered



***Following the publication of TYNDP 2015 on 16 March 2015 ENTSOG organized a public consultation between 31 March and 5 June It covered the different components of the report:***

- > Chapter on Infrastructure projects
- > Chapter on Barriers to investment
- > Chapter on Demand
- > Chapter on Supply
- > Assessment chapter

***...and asked for respondents views on the following:***

- > The stakeholder engagement process
- > The handling of project maturity
- > The assessment of the sustainability criteria

***A mostly convergent feedback...***

- > The public consultation feedback is mostly in line with the feedback from the European Commission, ACER Opinion and ENTSOG own perception



# ENTSOG Initial Improvements



***Presented during the 11th TYNDP Workshop, ENTSOG outlined a number of improvements that would form the basis of discussions during the Stakeholder Joint Working Sessions (SJWS)***

- Additional Mature Infrastructure Level
- Reviewed submission of project data
- Three Demand Scenarios
- Consistency between gas and electricity scenarios
- Separate modelling of whole year and high demand situations, plus more accurate consideration of LNG terminals and UGS
- Improved transparency of the function of the modelling tool
- ENTSOG endeavours to identify the infrastructure gap more clearly, along the different criteria



# **Stakeholder Engagement Review Feedback Implemented**





# Bilateral Discussion with Eurogas

## ***SJWS #1 – Demand Scenarios***

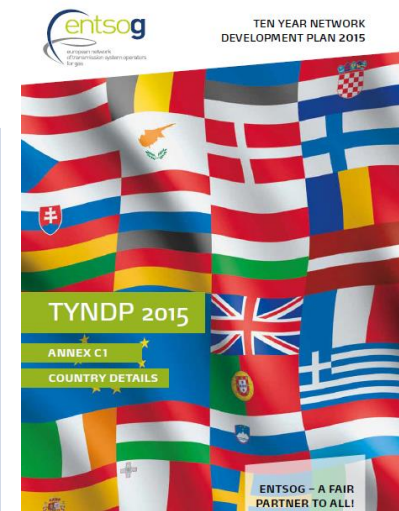
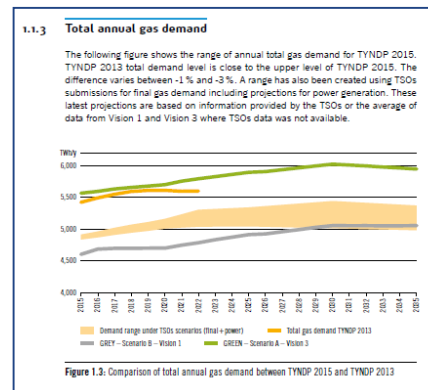
- > ENTSOG met Eurogas bilaterally as requested, following discussions during SJWS #1
- > It was an opportunity to share views and for Eurogas to better understand ENTSOG approach to the demand scenarios.
- > ENTSOG always looks to benchmark the results of the demand scenarios following the data collection process against reputable sources and looks forward to the publication of the Eurogas Long Term Outlook



# Data Transparency

***A key factor in the success of the TYNDP, is transparency of the data used to generate the results***

- > ACER and EC feedback on TYNDP 2015, plus discussion during SJWS sessions highlighted requirements surrounding demand assumptions from TSOs. This would help to increase understanding their interpretation of the scenarios, plus explain the cooperation with ENTSO-E and the power methodology, as well as benchmark the results against other reputable sources.
- Dedicated **Demand Data SJWS** will be held in July
- Supporting **Annexes** to main report demand chapter
  - Country details
  - Demand data
  - Power generation
  - Evolution of scenarios





## GRIP NW – H/L Gas



***L-gas will be modelled separately in NW GRIP***

- > For each market area, separate L-gas balances will be created
- > This way the need for projects related to market conversion can be shown
- > L-gas supply/demand data is collected using the ENTSOG data collection procedure
- > Projects related to L-gas conversion are submitted in the same procedure as all other projects





# GLE – Regasification of LNG

## *SJWS # 2 – Questions about LNG raised*

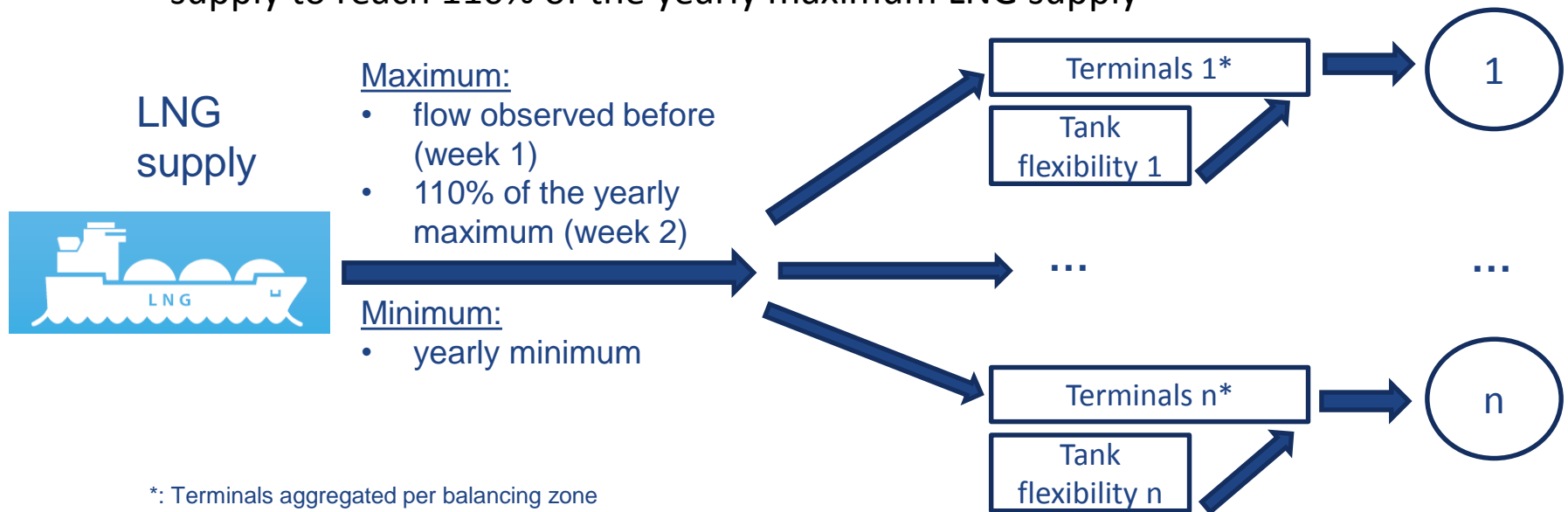
- > As a solution the overall approach was discussed along with GLE
  - For “**over the whole year**” simulation daily **send-out capacity** from GLE map May 2015, “**nominal annual capacity**” (divided by 365, 11.7 kWh/m<sup>3</sup> as GCV), plus reported updates from GLE
  - For “**high demand**” simulation daily **send-out capacity** from GLE map May 2015, “**Max. hourly send-out capacity**” (multiplied by 24, 11.7 kWh/m<sup>3</sup> as GCV), plus reported updates from GLE
  - For the capacity in the model **the Lesser-of-rule** between these terminal **send-out capacities** and **technical entry capacities** for the gas network (TSO input) is applied
  - Minimum LNG supply on global and not on terminal level
  - Updated approach for 2-week case

*Discussions and improvements with GLE*



# LNG – 2W simulation

- > The 2-week simulation starts in the second half of February based on the results of the “over the whole year” simulation:
  - Flexibility from the LNG tanks can be used as additional supply (input from GLE) for both weeks.
  - In the first week the global LNG flows are limited to the level observed in the modelling before.
  - In the second week additional LNG cargos can arrive allowing the overall LNG supply to reach 110% of the yearly maximum LNG supply



\*: Terminals aggregated per balancing zone



## Supply 2017 - Tomorrow as Today

***SJWS #3 – Supply potentials in TYNDP presented around the basis of a minimum and maximum potential for each source and how this evolves over the assessment period***

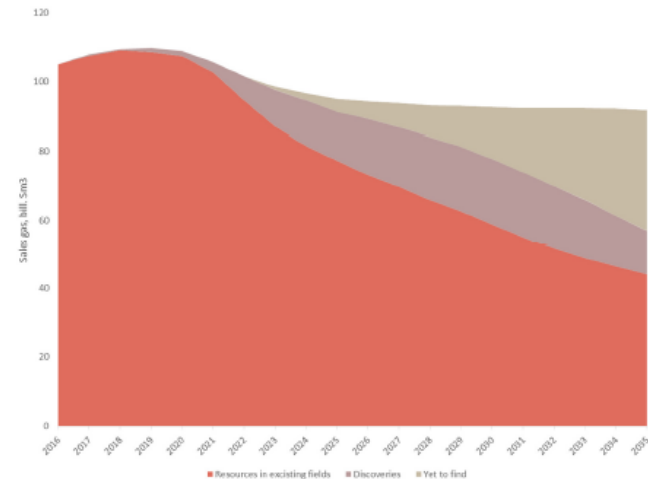
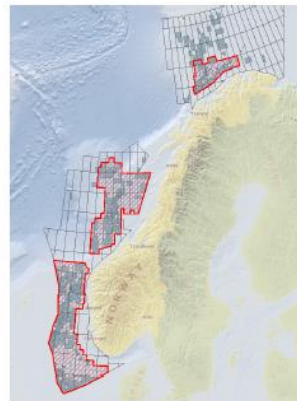
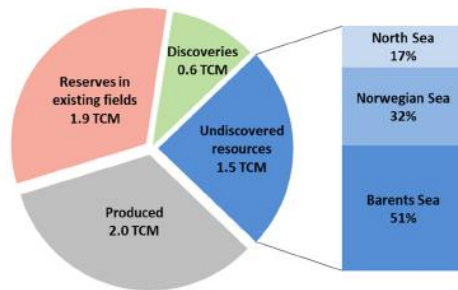
- > ENTSOG is using the idea of ‘Tomorrow as Today’ for the Supply Potentials for assessment in 2017, based on the experience of the seasonal outlooks to generate this range.
- > This replaces the minimum and maximum approach in only the first time snapshot of the analysis, 2017.
- > ENTSOG reiterates the requirement for a range of supply potential values in order to allow the model to search for the best solution and reflects flexibility of supply sources.



# Norwegian Supply Potential

## ***SJWS #3 – Presentation delivered by Gassco***

- > Presentation covered existing infrastructure and utilisation before discussing future developments in the North Sea, Norwegian Sea and Barents Sea
- > Remaining resources and the outlook to 2035 and beyond were displayed and prompted discussion both within the SJWS and also in a subsequent discussions between ENTSG and Gassco



*Following discussions with Gassco, ENTSG has refined the supply potential range for Norwegian supply in TYNDP 2017 which was subsequently presented*

# Others...

## ***Algeria/Egypt/Israel supply***

- > Further research or data was investigated on these supply potentials.
- > Israel has been discussed and will be included for the first time in TYNDP 2017 in a qualitative context, ENTSOG views this as appropriate due to the uncertainty for supply to Europe at this time.

## ***Supply Configurations Terminology***

- > The monetised part of the simulations intends to look at contrasted supply mixes, by maximising (resp. minimising) some supply sources.
- > This is done by using a standardised price spread between sources. Level of the spread will not impact the supply mix.
- > Referring to **Supply Configurations** has therefore been identified as more accurate than to refer to Price Configurations.

## ***Import Price Spread***

- > New supply configuration that allows further monetisation, reflects different supply prices depending on the import route and to model projects' impact on monopolistic behaviour and value the associated benefits.
- > ENTSG intends to use the Eurostat COMEXT database (source for EC Quarterly Report) as a basis.

## ***Project Test Environment***

- > Project portal shared 2 weeks prior to the official launch to allow practice entries. This was driven by the number of questions during the SJWS.





# Thank You for Your Attention

Stefan Greulich  
System Development Adviser

ENTSOG -- European Network of Transmission System Operators for Gas  
Avenue de Cortenbergh 100, B-1000 Brussels

EML: [Stefan.Greulich@entsog.eu](mailto:Stefan.Greulich@entsog.eu)  
WWW: [www.entsog.eu](http://www.entsog.eu)