

Picture courtesy of Gas Connect Austria

Revised TEN-E Regulation

Italian Senate Committee on Industry – 20 May 2021

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What is ENTSOG and what do we do?



ENTSOG

- Established under EC 715/2009 to:
 - Develop network codes for market and system operation
 - Create Ten-Year Network Development Plan (TYNDP) for gas
 - Provide information on gas security of supply
 - Ensure operational network security and reliability
- 45 TSO members

ENTSOG & ENTSO-E

- **Joint scenarios** for possible energy futures to assess electricity and gas infrastructure
- **Ten-Year Network Development Plans (TYNDP)** for cross-border infrastructure
- **Cost-benefit-analysis** methodology to assess infrastructure projects prepared for EC approval
- All activities include extensive stakeholder engagement

EC & Regional Groups

- Conduct **selection process** for infrastructure projects
- Determine list of Projects of Common Interest



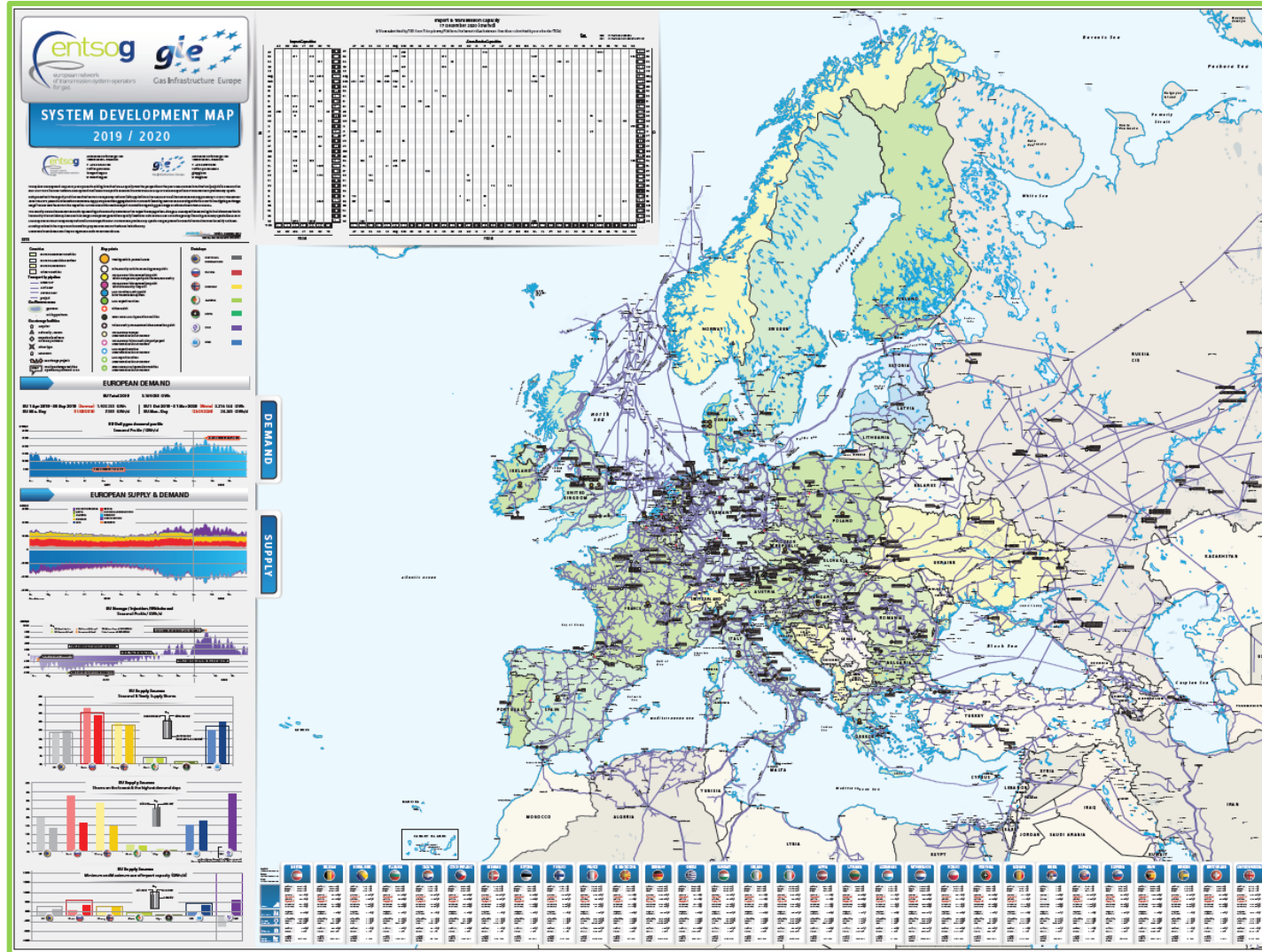
List of Projects of Common Interest (PCI List)

- Proposed by EC & to be approved by EP
- Pre-requisite for Connecting Europe Facility funding

ENTSOG is responsible for collecting, describing and analysing projects

– but not for endorsing projects nor for granting PCI status

Ensuring the development of a pan-European transmission system




Order your maps (entsog.eu)

Scenario Development & Energy Transition

National Trends

- Policy Scenario based on member states' National Energy and Climate Plans (NECPs)
- EU 2030 Energy and Climate Framework (-40% CO₂, 32 % RES, 32.5 % energy efficiency)
- EC 2050 Long-Term Strategy: 80 – 95 % CO₂ reduction



Benchmarked with
EC Long-Term Strategy 

2 x COP 21 scenarios
+1.5°C target with 66.7 % probability
Carbon neutrality by 2050

Distributed Energy

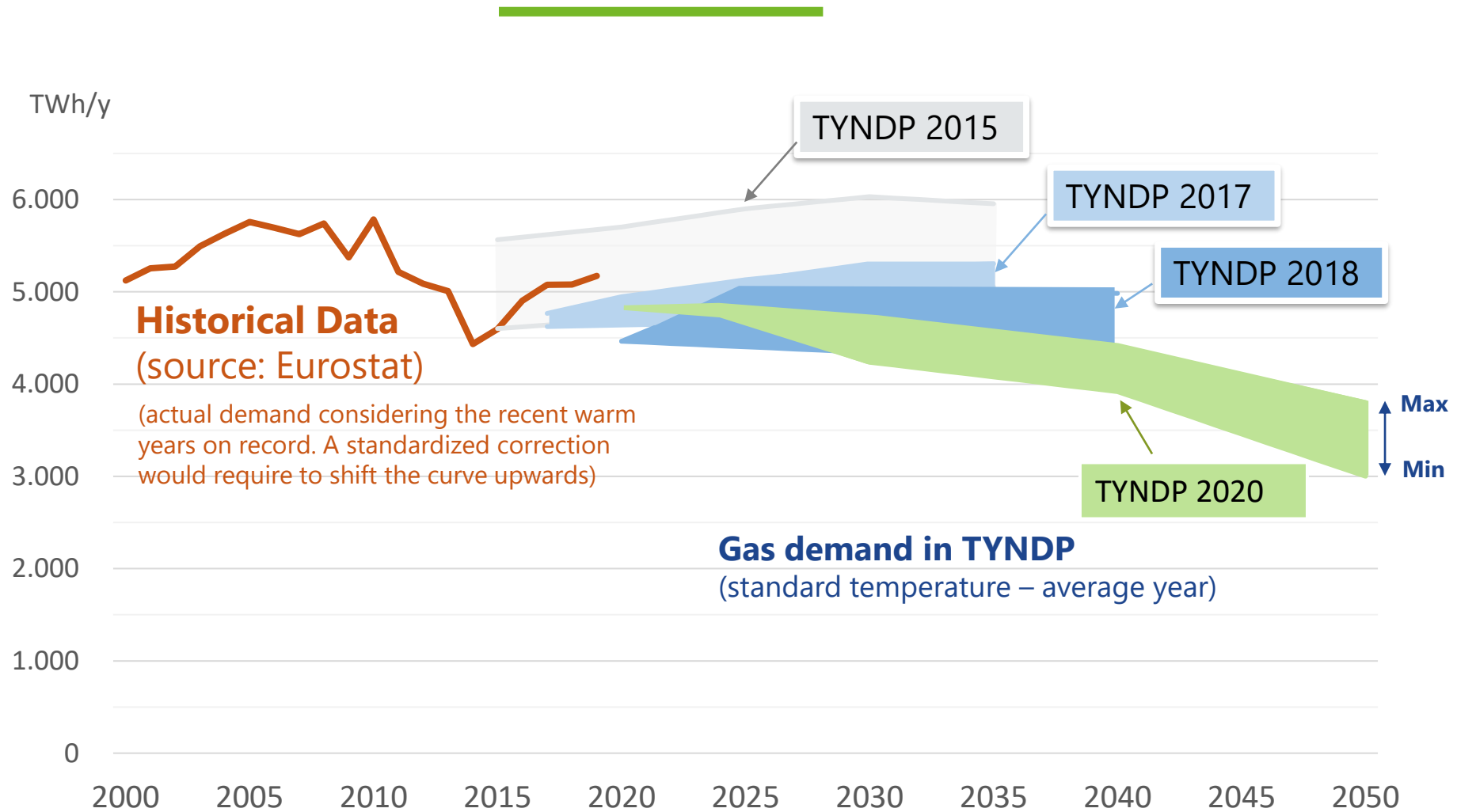
De-centralised approach to the energy transition:
active customers, small-scale solutions, circular
approach

Global Ambition

Centralised approach to the energy transition:
large-scale renewables, imports and
decarbonisation

**Scenario development based on extensive stakeholder consultation
(nine workshops, two public consultations, more than 100 stakeholders)**

Gas demand in TYNDP scenarios since 2015



Actual gas demand higher than scenarios since TYNDP 2017

Key Topics for Revised TEN-E Regulation



Role of gas infrastructure in decarbonisation

- Most existing infrastructure can be repurposed for hydrogen transport – ¼ of cost of new energy infrastructure
- Hydrogen-ready gas infrastructure enables transition from coal to gas and then to hydrogen and low carbon gases
- Existing PCI status to be maintained for gas projects - ensuring security of supply and market integration

Strengthen current structure for scenario development

- Current allocation of responsibilities provides “checks and balances” between **policy** governance (EC), **regulatory** governance (ACER) and **execution/technical coordination** (ENTSO-E & ENTSOG)
- Existing allocation ensures transparency and enables efficient scenario development and network planning
- ENTSOG has suggested Scenario Stakeholder Forum to further strengthen stakeholder involvement

Formally integrating hydrogen infrastructure into the current TYNDP-structure is beneficial for all

- Integration will support *Energy System Integration* - avoiding “silo-effect”
- Co-ordinated planning ensures lowest economic cost for the energy system
- ENTSOG has already integrated hydrogen infrastructure in scenarios and upcoming TYNDP 2022



Thank you for your attention

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