

# ENTSO-E's Ten Year Network Development Plan

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ENTSO-E RG CCE stakeholder external workshop  
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1. Aim of the Workshop and ENTSO-E in a nutshell
2. TYDNP and Regulation 714/2009
3. TYNDP and regulation 347/2013
4. Four advantages of being in the TYNDP
5. TYNDP improvements steps



## **1. Aim of the Workshop and ENTSO-E in a nutshell**

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**Interact and engage regionally interested stakeholders and collect their appropriate feedback (comments and remarks) and input for the purpose of streamlining the TYNDP process**

# International TSO cooperation: we are ENTSO-E

- 41 TSOs from 34 countries
- Founded on 19 Dec 2008 and fully operational since July 2009
- A trans-European network
  - 525 million citizens served
  - 828 GW generation
  - 305,000 km of transmission lines
  - 3,400 TWh/year demand
  - 400 TWh/year exchanges
- Replaces former TSO organisations: ATSOI, BALTSO, RTSO, NORDEL, UCTE, UKTSOA



System Development



System Operation



Electricity Market



Research and Development





## Key activities set out in Regulation 714/2009 part of the 3<sup>rd</sup> Internal Energy Market Package)

- Deliver **network codes**
- Deliver **Ten Year Network Development Plan** including an system outlook and adequacy reports
- Deliver crucial aspects of **market integration** (“market coupling”)
- **R&D Plan** (fully included in EEGI – European Electricity Grid Initiative, part of the SET Plan)

Through its members deliver the **infrastructure** to:

- enable markets to function,
- secure energy supply,
- meet climate change objectives through connecting RES

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# Why a European Ten-Year Network Development Plan?

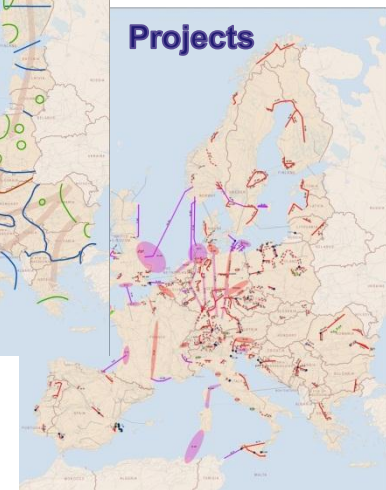
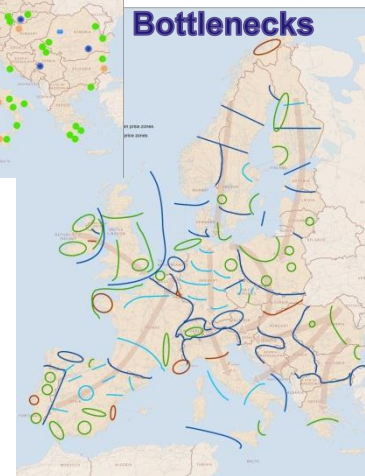
Regulation (EC) 714/2009 – “In order to ensure greater transparency regarding the entire electricity transmission network in the [Union], the ENTSO for Electricity should draw up, publish and regularly update a non-binding [Union]-wide ten-year network development plan”

**Transparency**

**TSO cooperation platform**

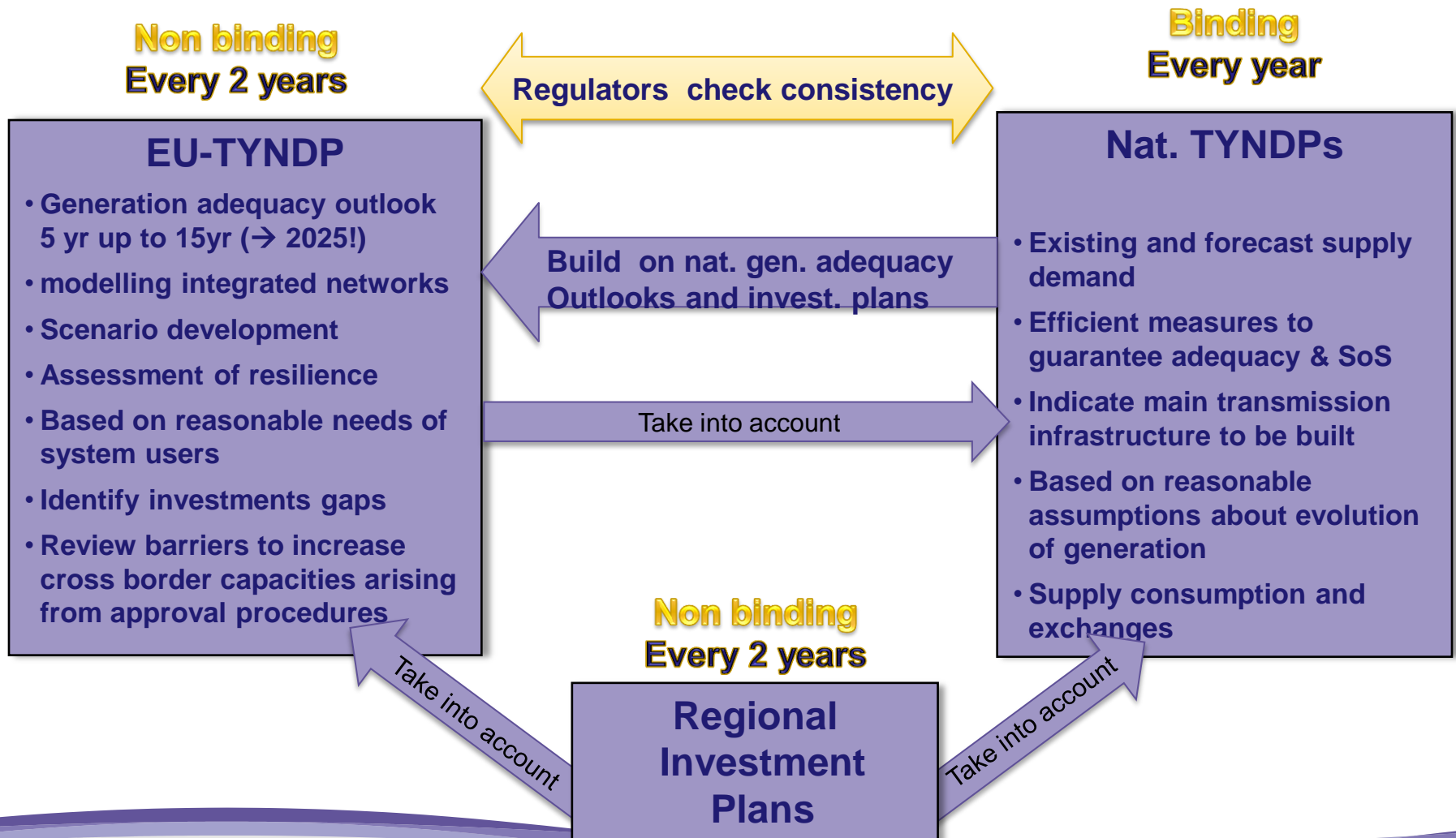
**Stakeholder involvement**

**Inform EU policy and investment decisions**

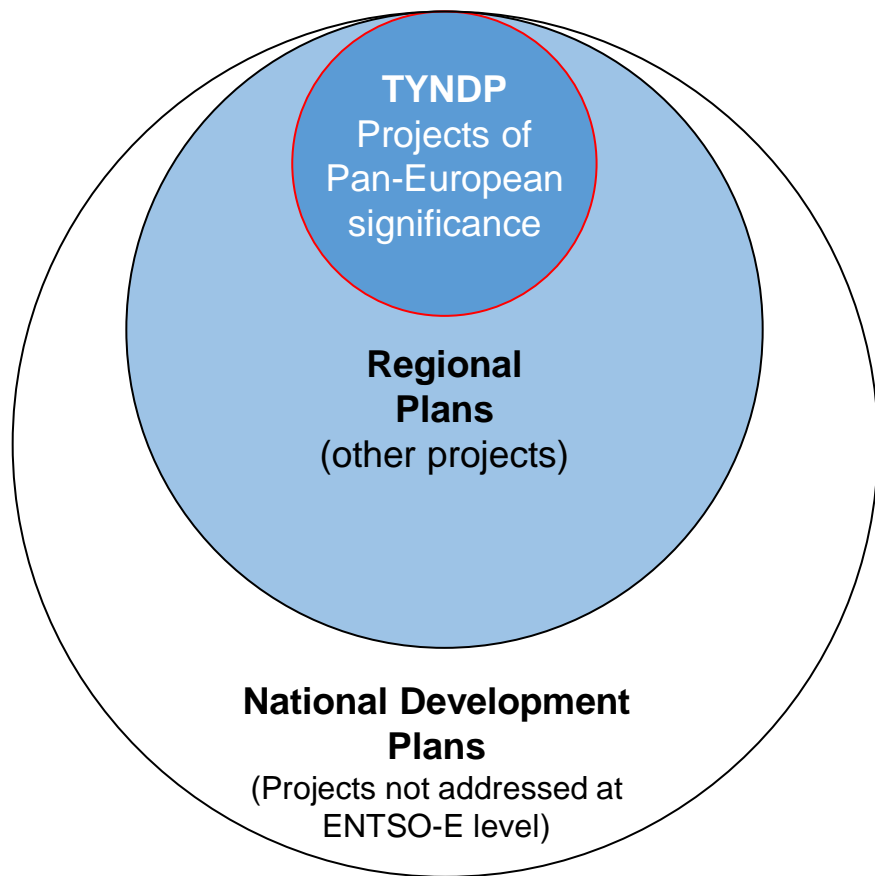




# The 3rd Package defines the TYNDP



# What cover the projects of Pan-European significance?



## Definition of Projects of Pan-European Significance

- Meeting the EU energy targets: RES, SoS, IEM
- Voltage & capacity thresholds

## From TSOs & 3<sup>rd</sup> parties

- Non-discriminatory procedure

## Basis for further selection of Projects of Common interest

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# Regulation (EU)347/2013 - main elements



1. Define the PCI list
2. Speed-up the permitting procedure
  - 3 ½ years + 9 month if necessary
3. Improve the regulatory framework: New CBA methodology which will be used to:
  - Assess TYNDP projects (including the PCI projects)
  - Base for the CBCA
  - Be the basis for the incentives calculation
4. Establishment of Financial Instruments to support some PCIs

# Main impact on the TYNDP

1. Inclusion of the 3<sup>rd</sup> party projects in the TYNDP
  - The new procedure to include 3rd party projects into the TYNDP
2. Inclusion of storage in the TYNDP – starting with TYNDP 2014
  - The storage projects shall be assessed starting with TYNDP 2014
3. New CBA methodology – applicable starting with TYNDP 2016
  - The final version submitted to the EC on 16 November 2013
4. Expected consistent and interlinked electricity and gas market input assumptions
  - By 31 December 2016



# PCI process



ENTSO-E

Project  
promoters

NRAs  
*Electricity*

EC Regional  
Groups

ACER

European  
Commission

- Prepare TYNDP for electricity

- Submit projects for EC
- Criteria
- CBA

- Check application of criteria
- Cross-border relevance

- Evaluate projects
- Rank
- Adopt regional lists

- Opinion
- Cross-regional consistency

- Adopt Union-wide list of projects of common interest (no ranking)

## General criteria

Priority corridor implementation

Economic viability

Cross-border or having cross-border impact

## Specific criteria

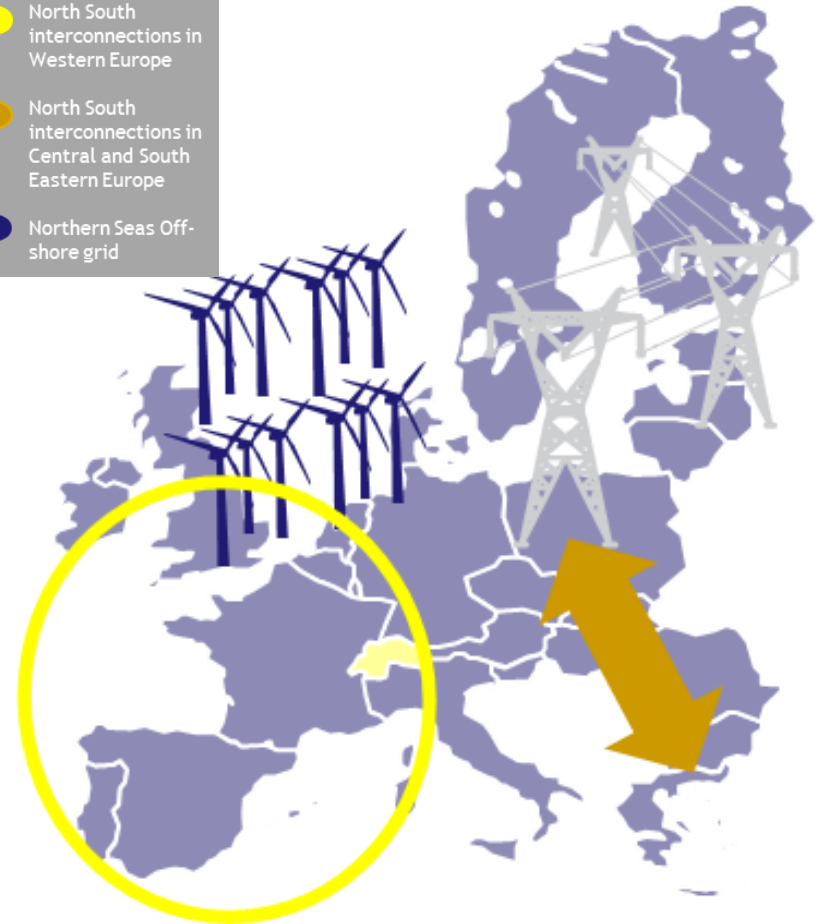
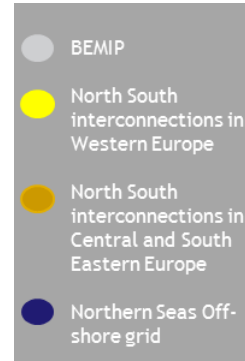
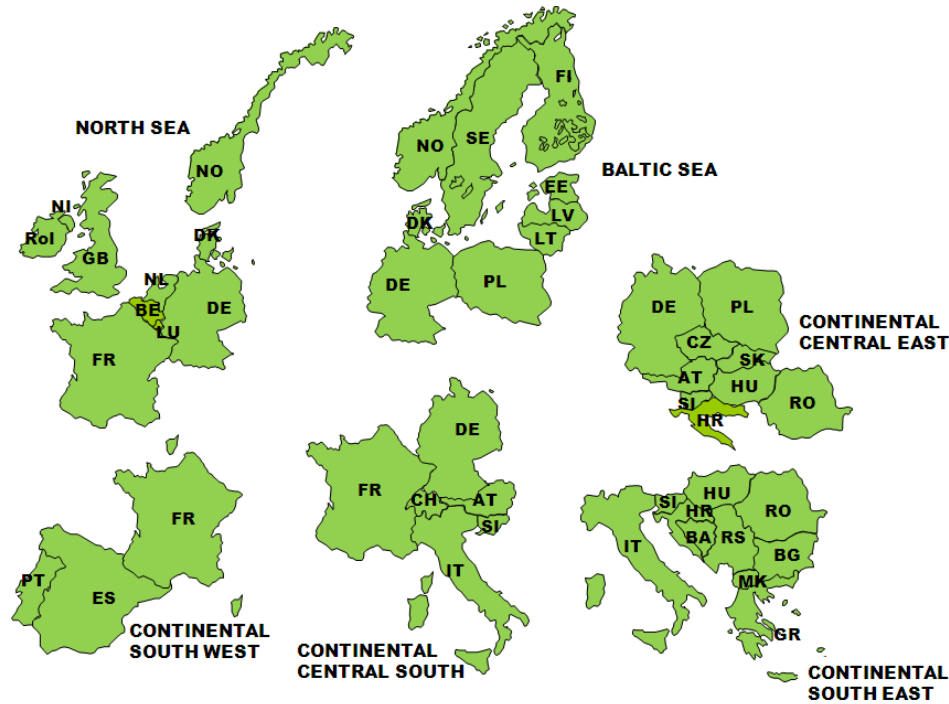
Market integration

Security of supply

Sustainability

→ Cost-benefit analysis

# TYNDP and EC regional Groups



# Continental Central East Regional Group



# Content

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# Four advantages of being in the TYNDP



1. Be part of the pan-European relevant projects list
2. Increased visibility of the project at European and regional level
3. Eligible for the PCI label application:
  - Short permitting process
  - Financial instruments and possible grants for studies and work
4. Be assessed using the common pan-EU CBA methodology



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# TYNDP – from the first plan to today

## TYNDP 2010

- ENTSO-E proactively publishes the pilot TYNDP
- Bottom-up approach
- 2020 scenarios
- No 3<sup>rd</sup> party projects incorporated
- ENTSO-E significant effort to create and run the TYNDP process with all its 41 members

## TYNDP 2012

- First official TYNDP package
- Bottom-up and top down approach
- 2020 scenarios
- First call for the inclusion of the 3<sup>rd</sup> party projects( transmission) in the TYNDP
- First assessment of the projects using the CBA methodology
- Supports the discussions on the new energy infrastructure legislation

## TYNDP 2014

- Second official TYNDP package
- Bottom-up and top down approach
- 2030 scenarios
- Second & Third call + new procedure for the inclusion of 3<sup>rd</sup> party projects( transmission and storage) in the TYNDP
- Improved CBA methodology
- Sole base for the 2015 PCI list
- Intermediate update of the TYNDP 2012 table of projects
- Creation of the Long-Term Development Stakeholder Group

# Conclusions

1. **TYNDP is the most comprehensive and up-to-date European-wide reference for the transmission network development**
  - Unbiasly at all the different drives which lead to grid development (e.g. RES, coal, gas, nuclear etc.)
2. **TYNDP supports the decision making process at regional and European levels**
3. **TYNDP forms the sole basis for the selection of Projects of Common Interest (PCIs)**
4. **TYNDP is a continuous improving process**

**THANK YOU FOR YOUR ATTENTION!**

**Questions?**

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