

# Continental South East Regional Workshop with Stakeholders on ENTSO-E Ten-Year Network Development Plan and the Regional Investment Plans in 2014

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# Key TSO activities coordinated within ENTSO-E



## Facilitating well designed pan-European markets

- Which are liquid and promote competition
- Allow risk to be hedged
- Efficiently use capacity



## Creating fit for purpose networks

- To allow power to be transported to customers
- To support optimal use of generation

e.g. TYNDPs



## Efficiently operating the power system

- To maintain system security
- To balance demand and supply at least cost

e.g. enhancing regional coordination



## The 2009 3<sup>rd</sup> Energy Package

All TSOs shall cooperate through ENTSO-E

### Draft **Network Codes**

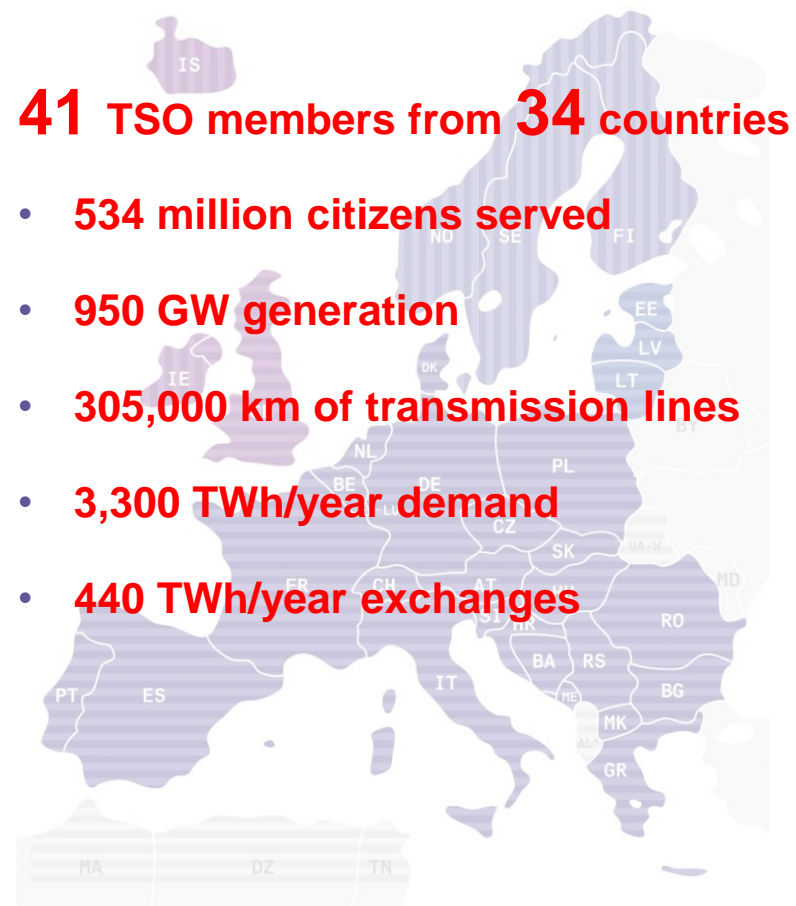
- Adopt **Ten-Year Network Development Plans** and adequacy outlooks
- Adopt common network operation tools and research plans

## Since then additional legal mandates

2010 ITC Regulation

2013 Transparency Regulation

2013 Infrastructure Regulation: CBA for PCIs



# What did the TYNDPs 2010 and 2012 teach us?

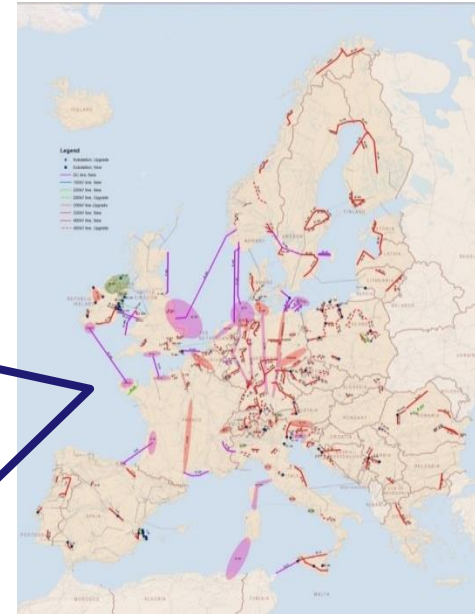


**Around 100  
bottlenecks in  
the system by  
2020**

**RES is  
triggering  
80% of assets  
growth**

- **€100 billion investment in grids...**
- **≈ 1.5-2 €/MWh over the 10-year period,**
- **≈ 2% of the bulk power prices,**
- **≈ less than 1% of the total end-user electricity bill**

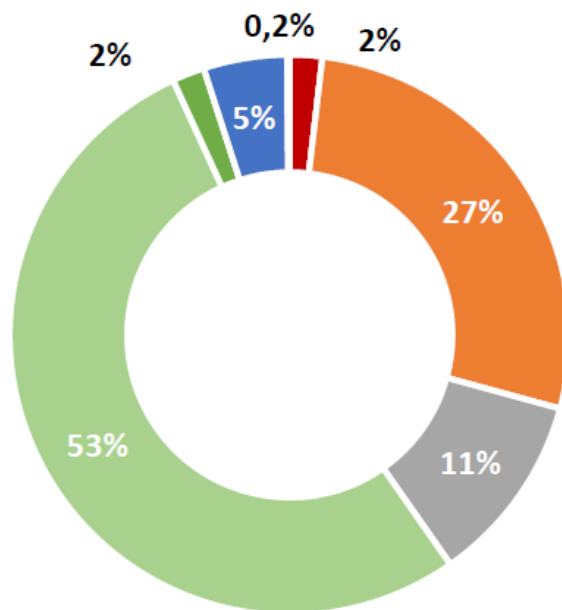
**By end 2016 and beyond**



**2020 Europe – 17% increase in infrastructure:**  
**These are concrete and clearly needed. There are a number of challenges to timely delivery.**



# Are we on the right track?



- Cancelled
- Delayed
- Rescheduled
- Investment on time
- Expected earlier than previously planned
- Commissioned
- Commissioned ahead of time

**Monitoring update of TYNDP 2012  
(June 2013 status)**



## Regulation 714/2009; part of the 3<sup>rd</sup> Energy Package

Deliver **Ten Year Network Development Plan (TYNDP)** including System Outlook (SO) and Adequacy Forecast (AF) reports

**R&D Plan** (included in the European Electricity Grid Initiative which forms part of the Strategic Energy Technologies Plan)

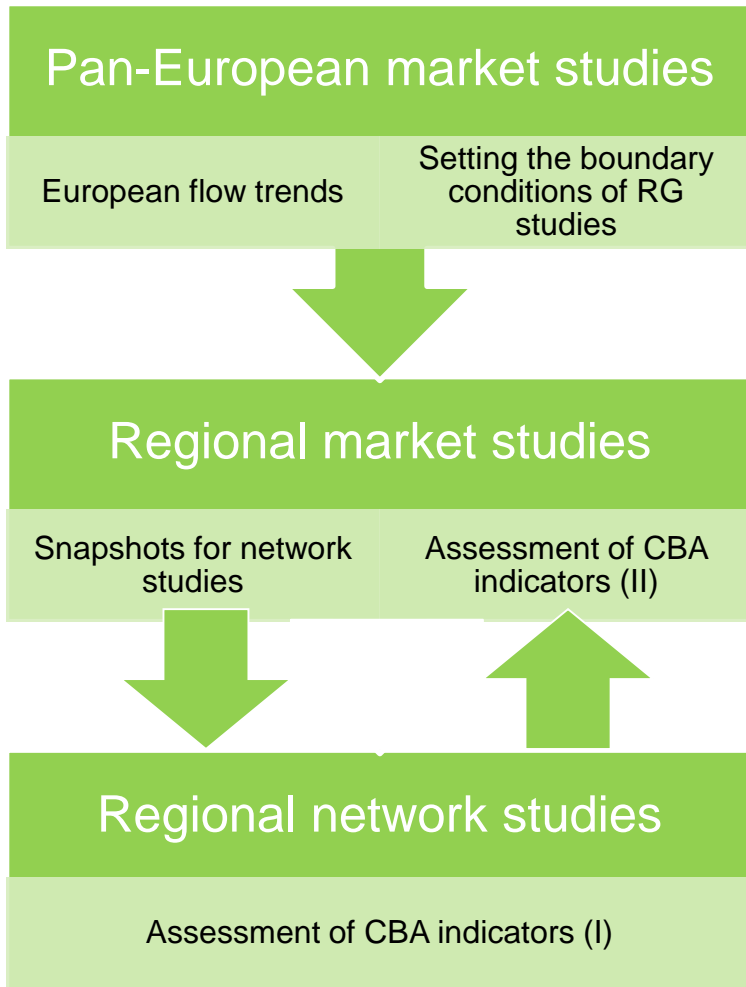
## Regulation 347/2013

Deliver a methodology for a **harmonised energy system-wide cost-benefit analysis at Union level** for Projects of Common Interest (PCI), including on network and market modelling

Make ENTSO-E **TYNDP sole basis** for selection of electricity PCI

Deliver consistent and interlinked **electricity and gas market and network models**, in conjunction with ENTSO-G

# The basis for a European PCI selection



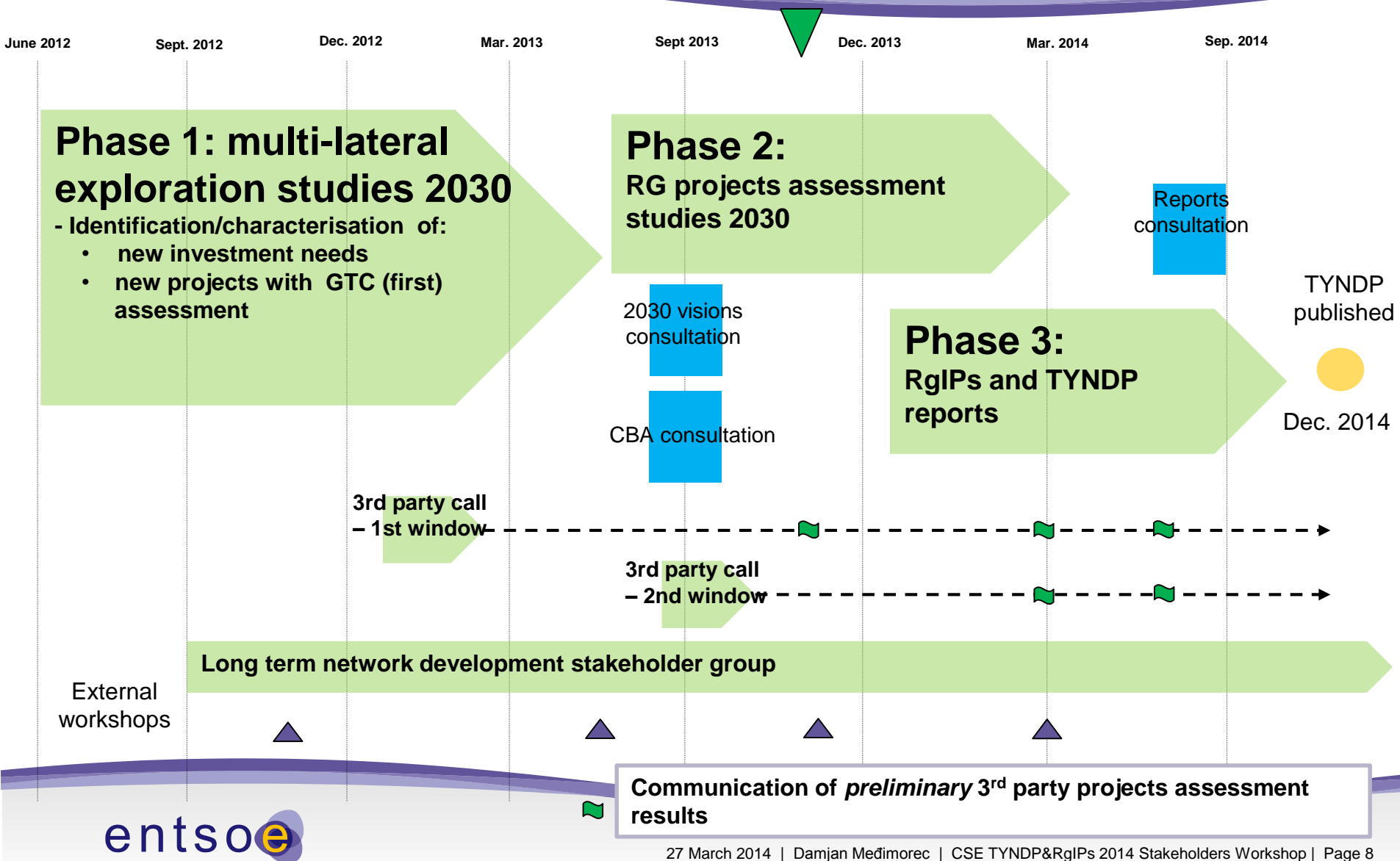
**Are European scenarios and national scenarios synchronized? Consistency is key.**

**All TYNDP projects have a set of detailed CBA indicators, from grid capacity to social welfare to environmental impact.**

**Assessment of projects with pan-European relevance requires a system perspective.**

**A TYNDP development requires iterations, but also continuous feedback from the entire sector, on input, methodology and output.**

# TYNDP 2014 looks to 2030 and widens stakeholder participation







**Thank you for your attention**