

# Energy Policy Considerations

*What does the Energy Union offer?*

*A view from ENTSO-E*

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# The World Energy Trilemma



***Delivering policies which address the energy Trilemma is one of the most formidable challenges facing government and industry***

*Climate Change*



*Competitiveness*



*Security of Supply*



# Energy Union solving the Trilemma?

## The Energy Union

...is Europe's answer to solving the energy Trilemma, and to deliver the necessary transformation of the energy system

## How we want to reach it:



## The TSOs

...are instrumental to enable the energy system transition, and thus solving the Energy Trilemma



# ENTSO-E's contribution to the 5 dimensions of the Energy Union



**41** TSOs  
from 34 countries



**530** million  
citizens served



**830** GW  
generation



**300** Thousand Km  
of transmission lines

Adequacy forecasts

Ten-Year Network Development  
Plans

Market Platforms

Network Codes

Transparency Platform

# Current Network Code development Status

## Delivery of the Third Package

		CACM	FCA	EB	RFG	DCC	HVDC	OS	OPS	LFCR	ER
Scoping	EC invites ACER to develop Framework Guidelines										
	ACER Public consultation begins										
	Final Framework Guidelines published										
Development	Formal invitation to develop Network Code										
	Public Consultation Period Begins <sup>1</sup>										
	Public Consultation Closed										Jan-15
Approval	Final version submitted to ACER <sup>1</sup>										Apr-15
	ACER opinion published										
	Resubmission to ACER <sup>2</sup>			Sep-14							
	ACER recommendation published		May-14				Jul-14	Nov-13	Nov-13	Sep-13	
	Comitology Begins <sup>3</sup>				Jan-14	Mar-14					
	Cross-Border Committee delivers opinion <sup>3</sup>										
	EC submits Code for scrutiny to the Council and EP <sup>3</sup>	Dec-14									
	Network Code is adopted	Q2-15									
Entry into force	Implementation begins <sup>4</sup>										
	Network Code enters into force										
	Network Code is monitored and can go through amendment procedure <sup>5</sup>										

Extensive Stakeholder Engagement

Extensive Stakeholder Engagement



# We will invest €150bn towards 2030, but we need stable regulatory framework and permissions

## *TYNDP 2014:*

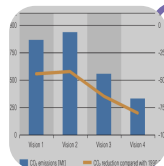


25 000 km DC lines/cables



30 000 km overhead lines

## *TYNDP enabling:*



20% CO<sub>2</sub> reduction in the power sector



60% RES of total consumption

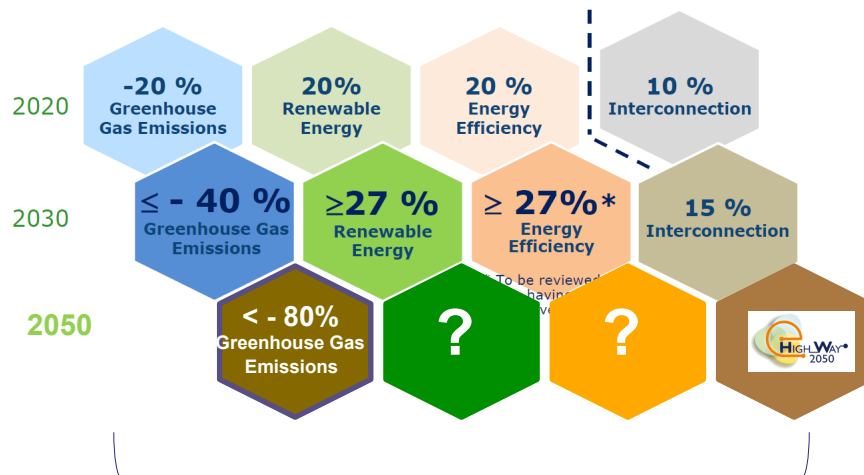


Power price reduction up to 5 €/MWh

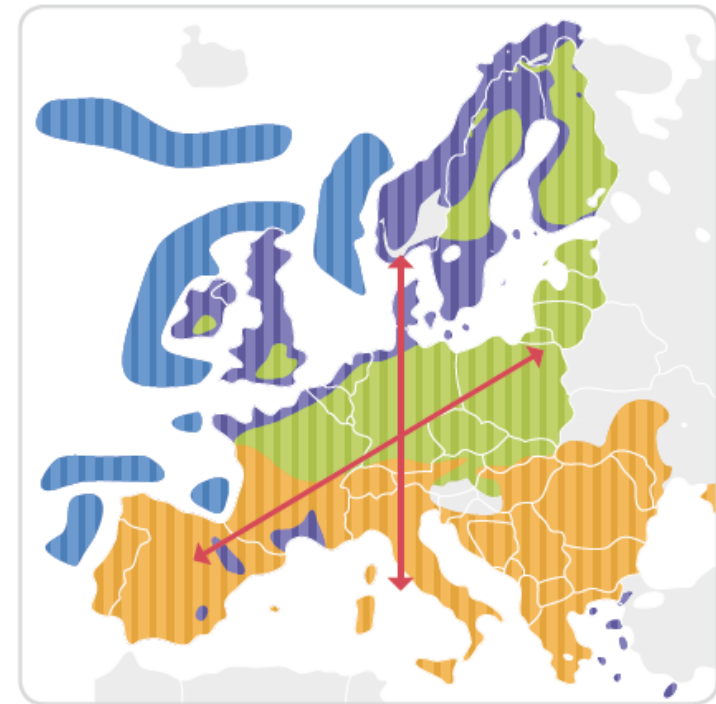
# European project e-Highway2050



“Planning for European Electricity Highways to ensure the reliable delivery of renewable electricity and Pan-European market integration”



The Energy Roadmap 2050 is the basis for developing a long-term European framework



Wave energy Wind energy Bioenergy Solar energy Electricity Highways 2050

40 month project, from September 2012 to December 2015

< - 80%  
Greenhouse Gas  
Emissions

# ENTSO-E's vision for the Energy Union: a joint effort

Citizens at the core  
of the Energy Union

Establish markets  
across all time  
frames

Seamless European  
Regulation

Enhance regional  
cooperation

Define co-ordination  
mechanisms in  
energy scarcity  
situations



A satellite view of Europe at night, showing the continent illuminated by city lights against the dark blue background of the Earth and the starry night sky. The text "Thank you for your attention" is centered over the image.

**Thank you for your attention**

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