



# **EU Renewable Energy Policy - regional cooperation**

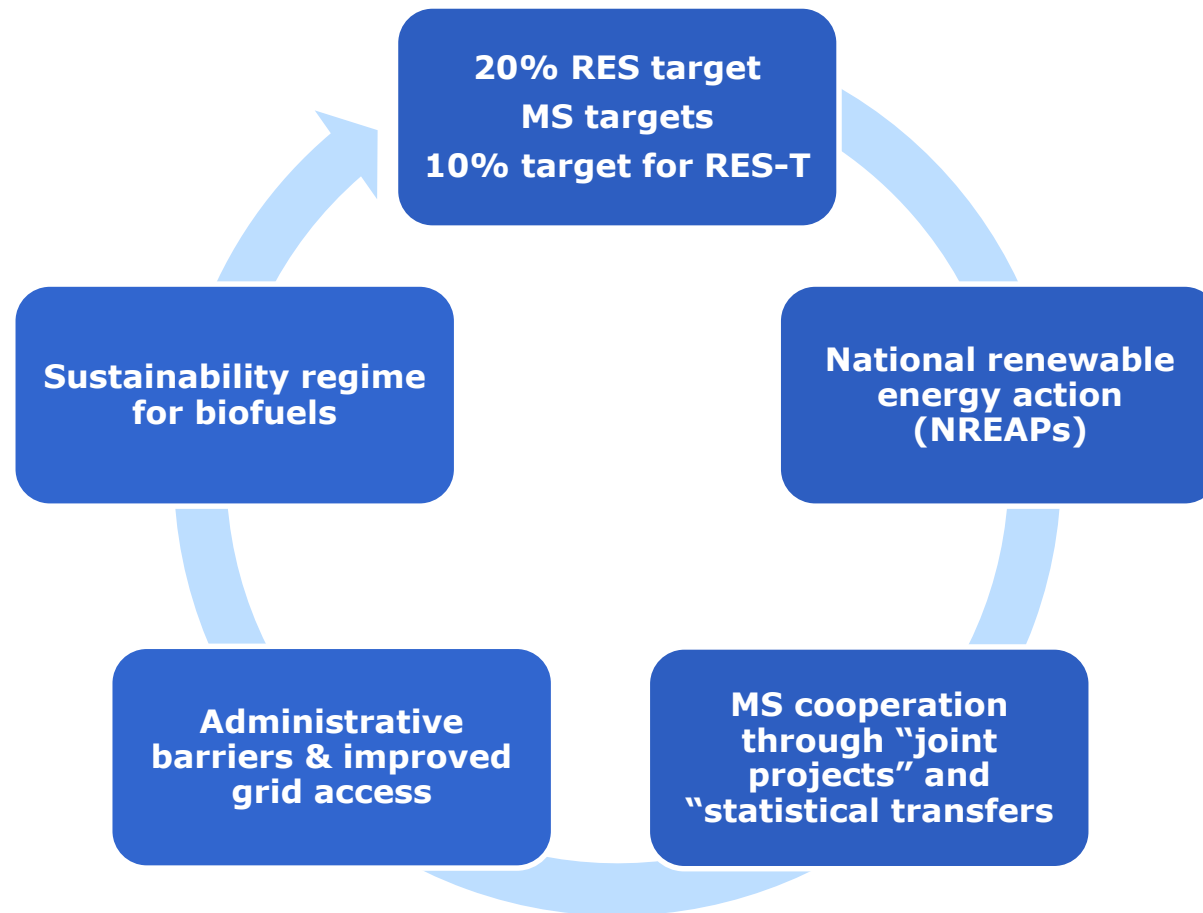
***Ruta Baltause  
DG Energy - European Commission***

*Source: Directorate-General for Energy*



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# The 2009 Renewable Energy Directive

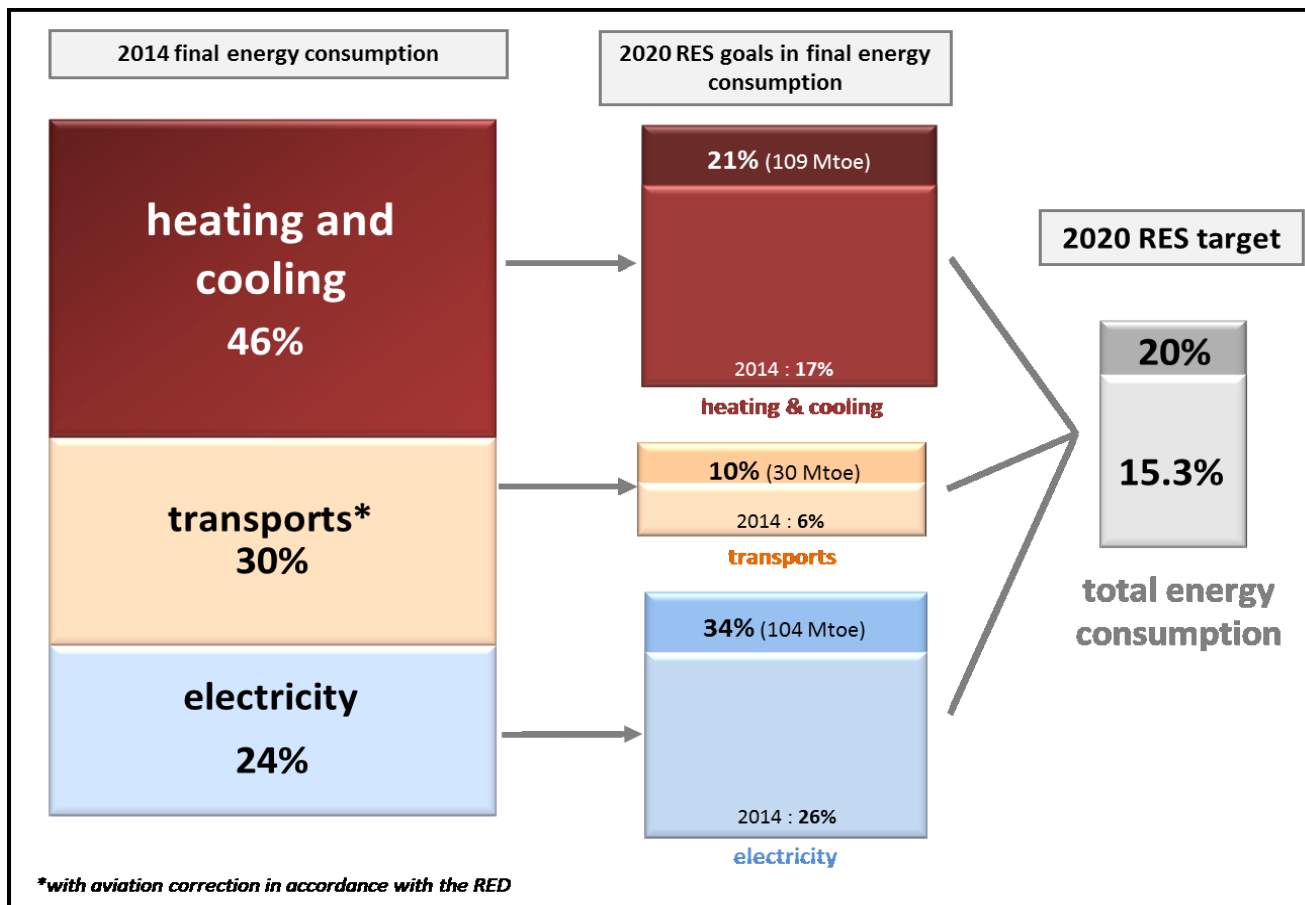




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# Progress towards the 20% renewables target

*Final EU energy consumption: by sector with RES share in 2014 against 2020 target*

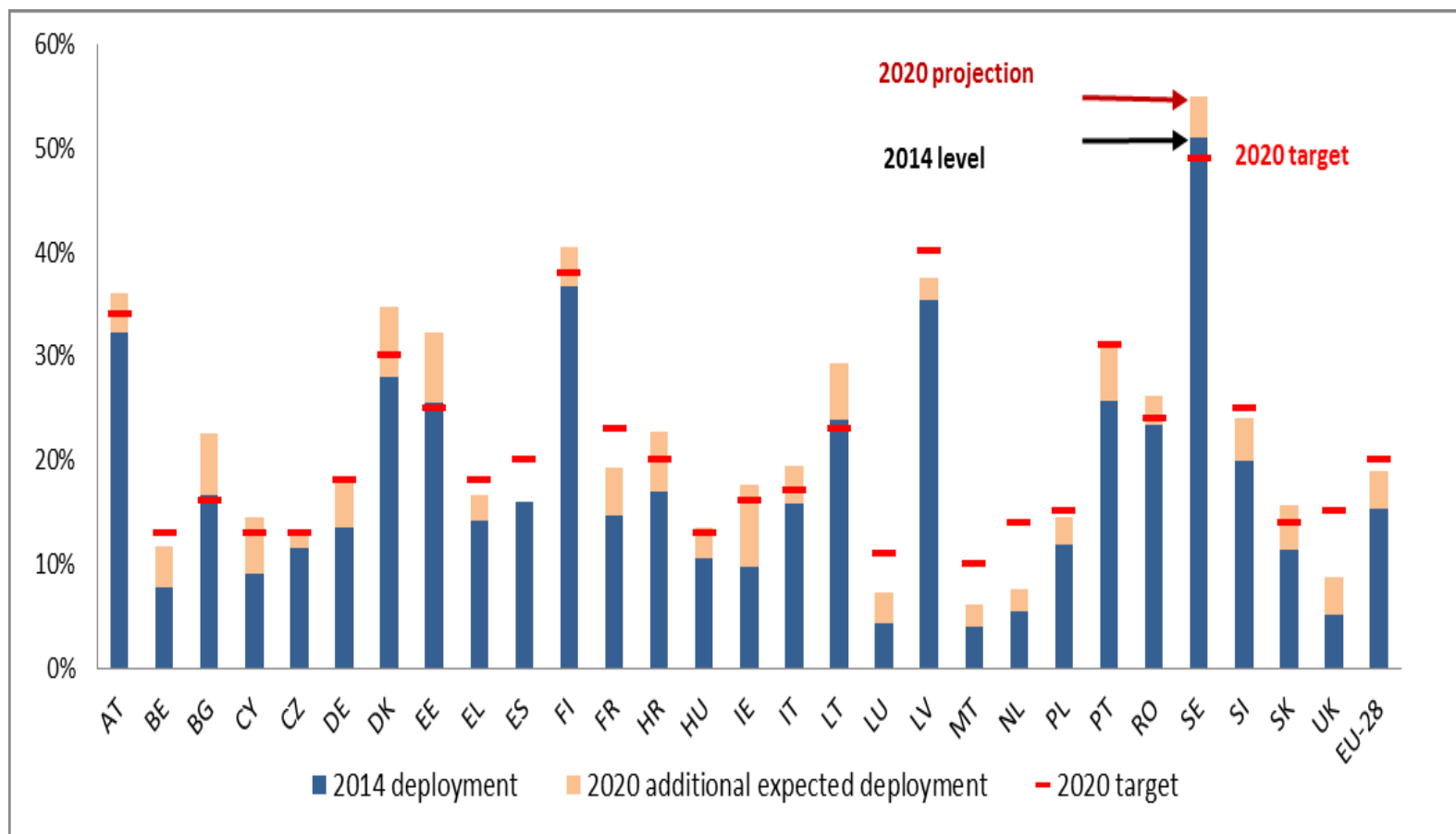


Source: European Commission, based on Eurostat calculation. 2014 data are model based estimates.



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# National RES deployment (2014 and 2020 projections)





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# The Energy Union

**Where** we want to go:

Secure, sustainable, competitive, affordable energy for every European

**What** this means:

Energy security, solidarity and trust

A fully integrated internal EU-wide energy market

Energy efficiency as an energy source in its own right

Transition to a low-carbon society

Research, innovation and competitiveness

**How** we want to reach it:

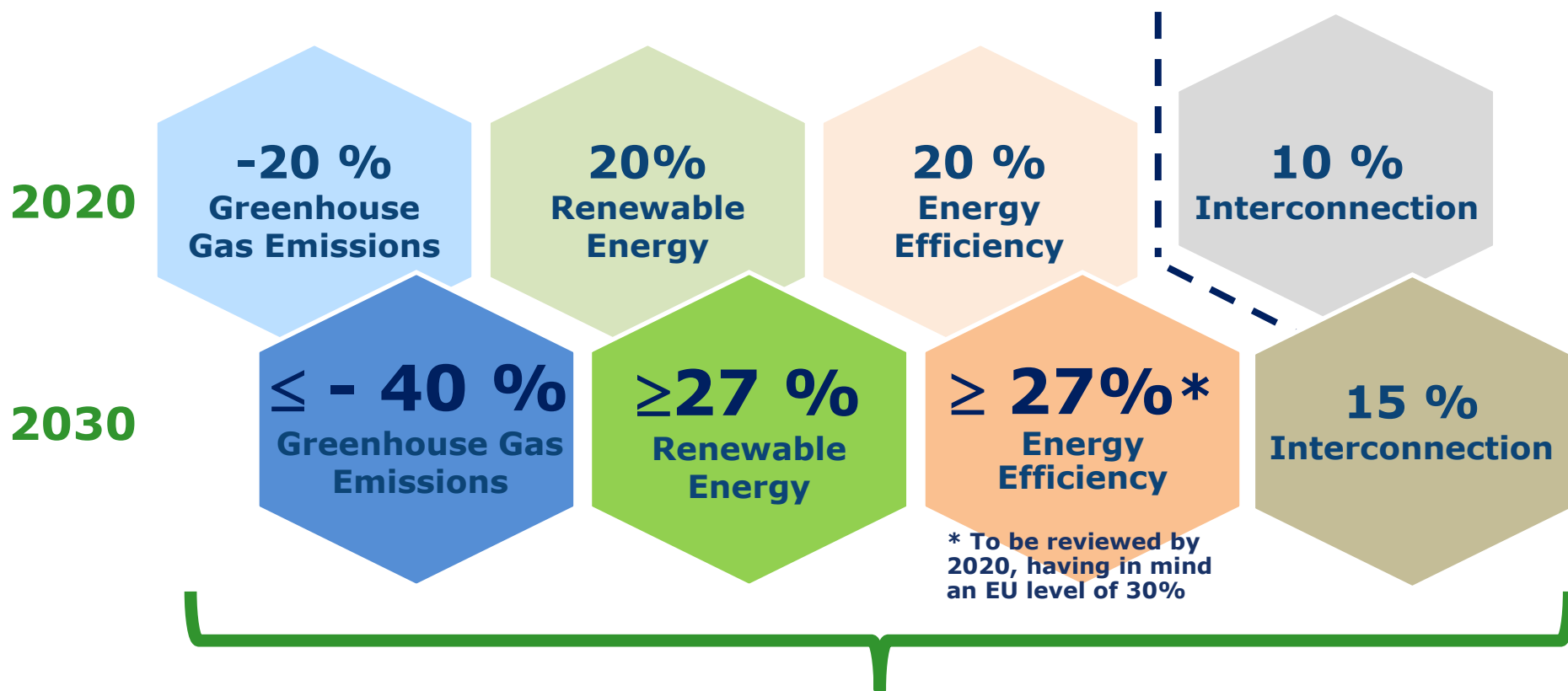


Energy



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# 2030 framework for climate & energy



**New governance system + indicators**



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# The next Renewable Energy Directive



Achieve **at least 27% RES** at EU level

Further integrate **renewable electricity** into the market

Decarbonise heating and cooling

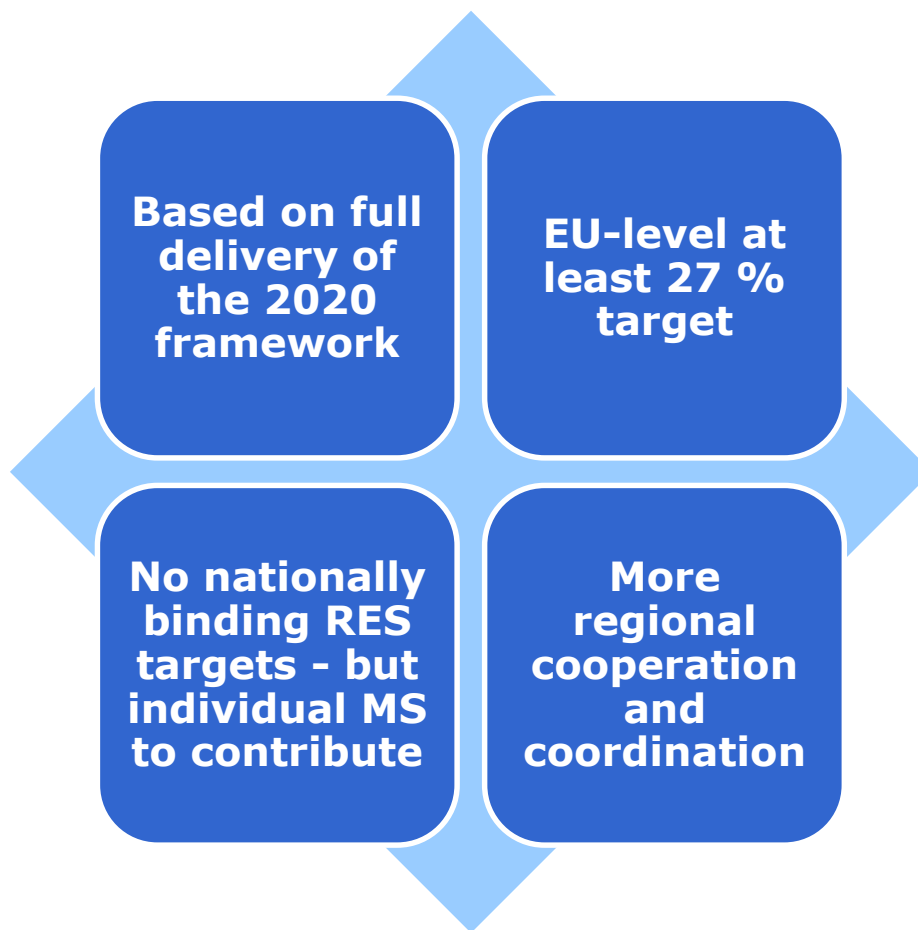
Increase renewable energy use in transport

Empower consumers and remove administrative barriers



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# The 2030 RES framework

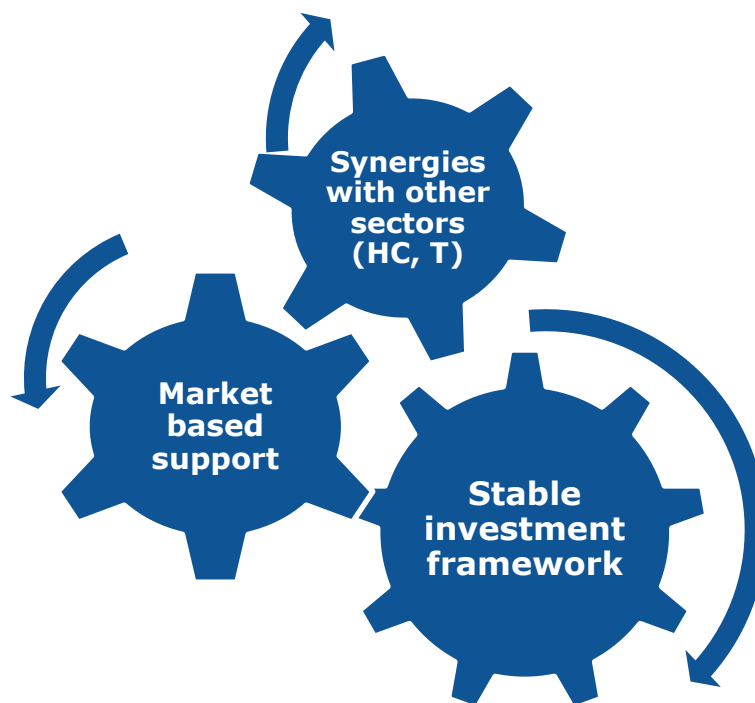






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# Mainstreaming renewables in the energy sector





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# Timeline for revised Renewable Energy Directive

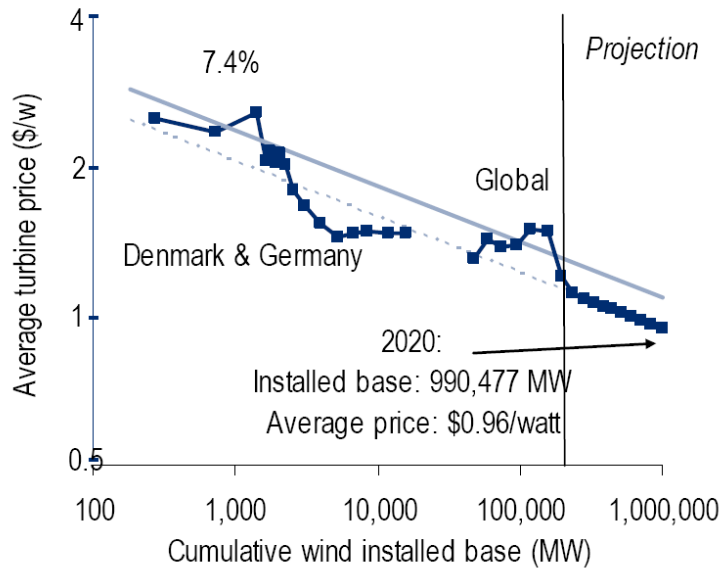




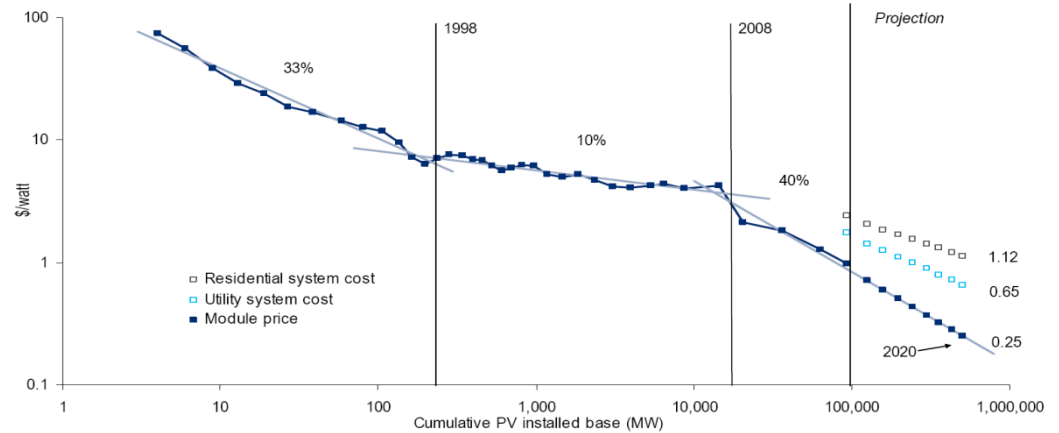
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# Renewables policies help reduce technology cost

## Wind



## Solar



Source: Bloomberg New Energy Finance, Citi Research



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## *Diacore project The impact of risks in renewable energy investments and the role of smart policies (February 2016)*

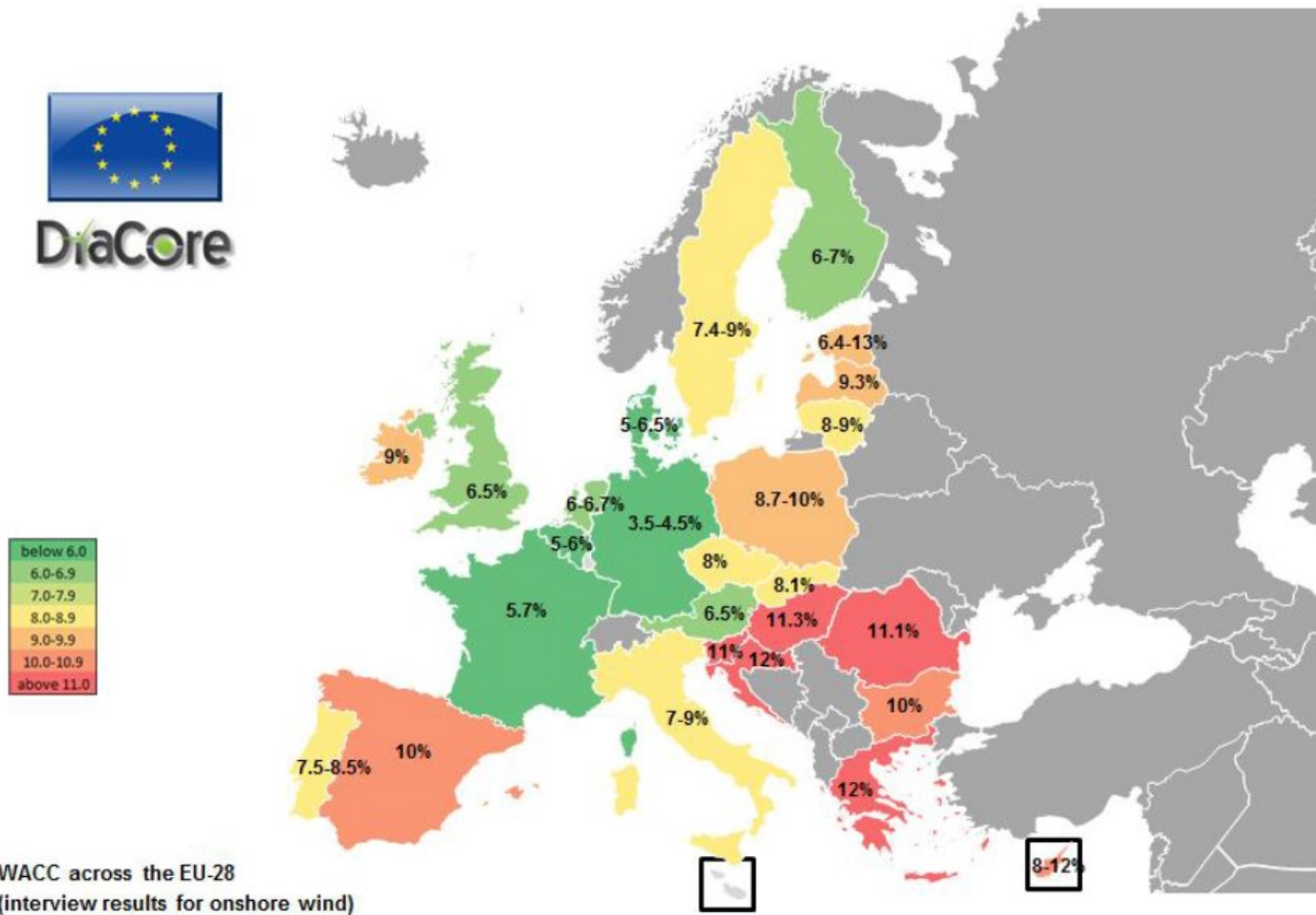


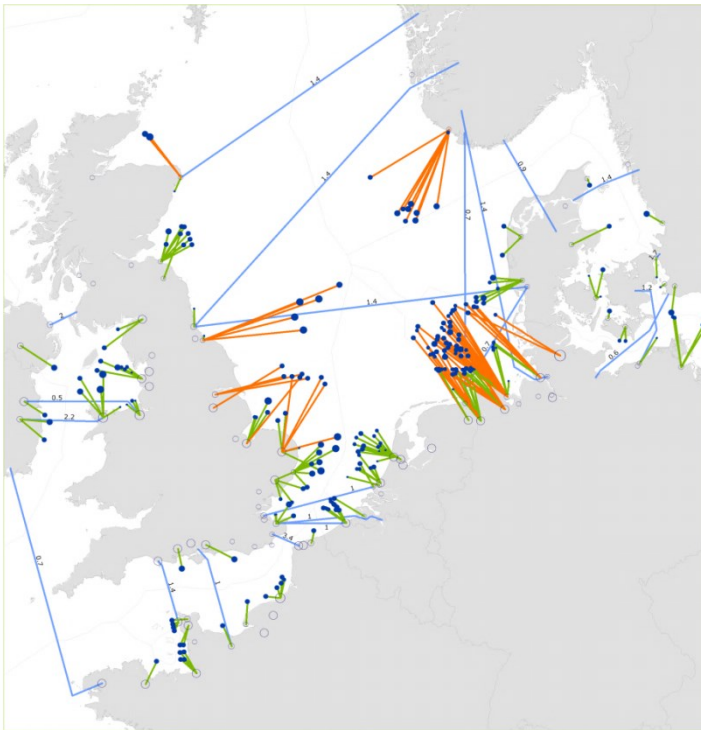
Figure 1: WACC estimations onshore wind



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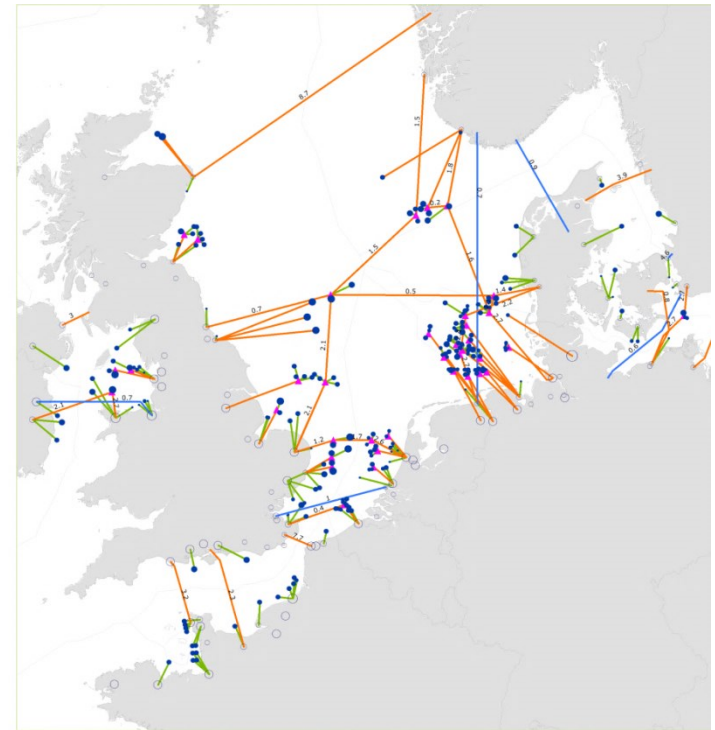
# Offshore wind and grid need to work together

## Business as Usual (radial)



- Point-to-point cable interconnectors
- Each wind farm connected individually to shore

## Coordinated development (meshed)



- Better interconnection of Member States
- Coordinated wind farm connection

Sc1 ENTSOE  
(Vision 4)



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**Thank you for  
your attention!**

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