

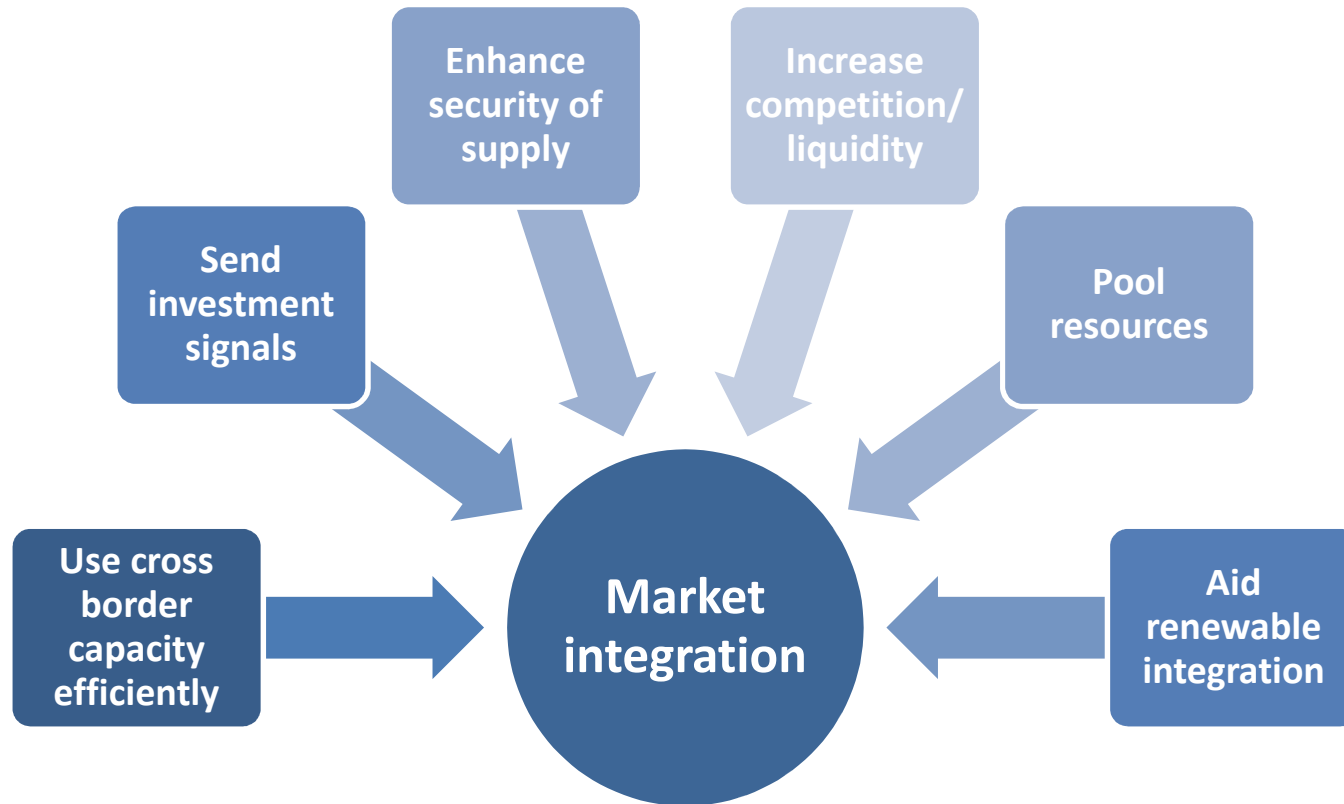
**On the Road to a Common Market:
The European Electricity Market and the Role of
Regional Cooperation**

Mark Copley
27/05/14

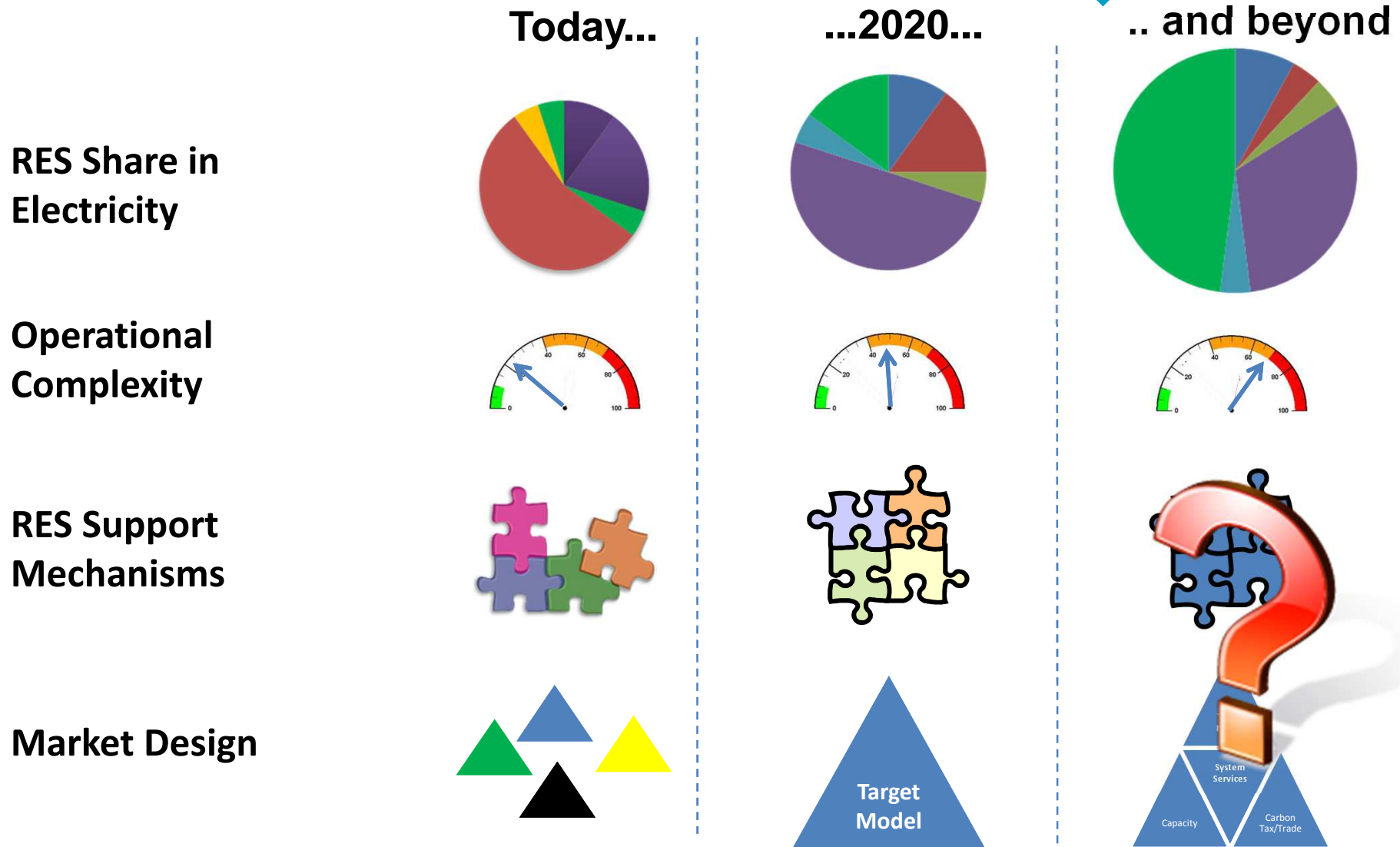
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- 1) Why integrate markets?**
- 2) The legal framework**
- 3) The European Target Model**
- 4) Market Coupling in Europe**
- 5) The role of regional cooperation**
- 6) A quick word on network codes**
- 7) Some closing observations**

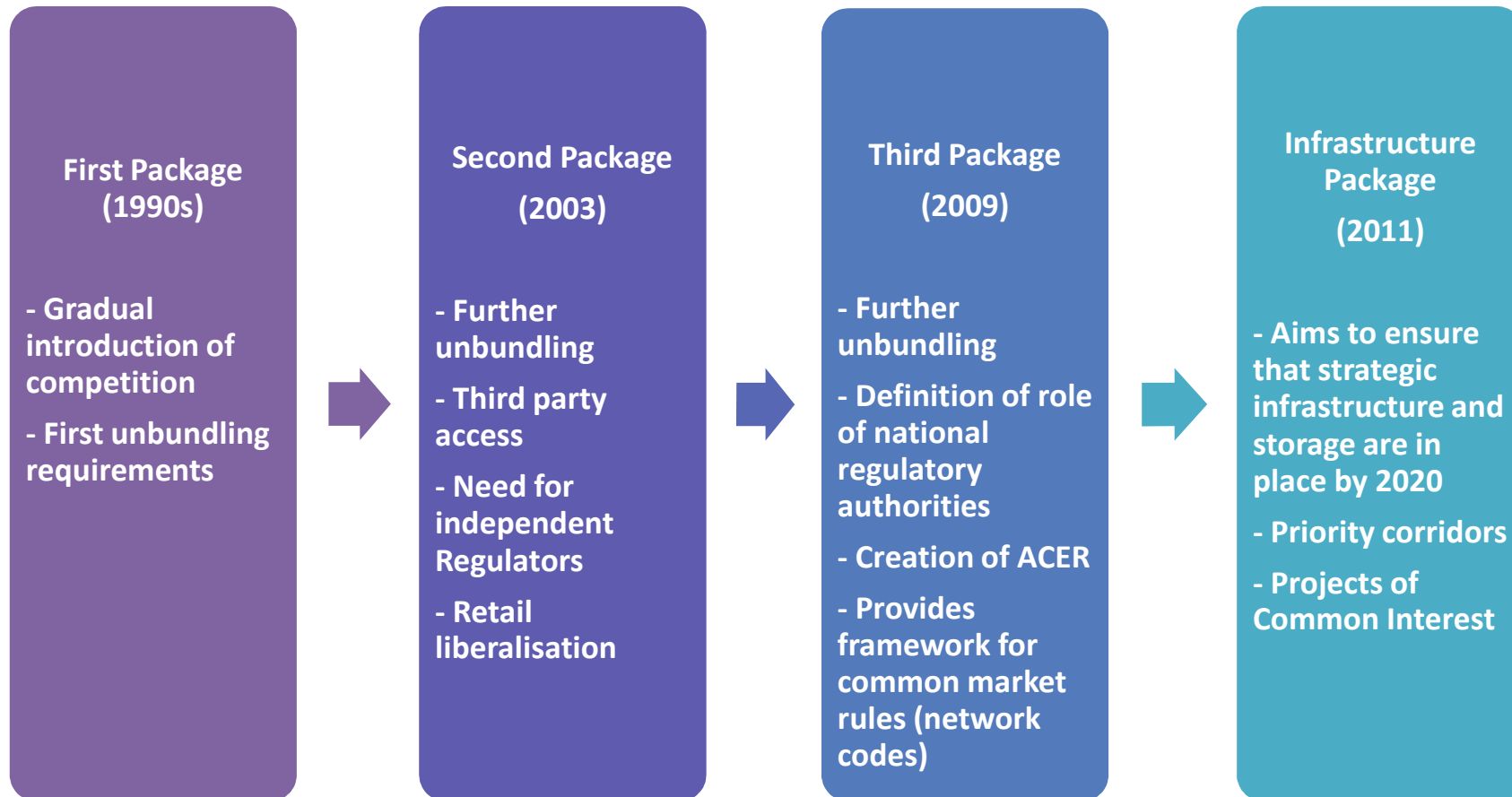
Why integrate markets?



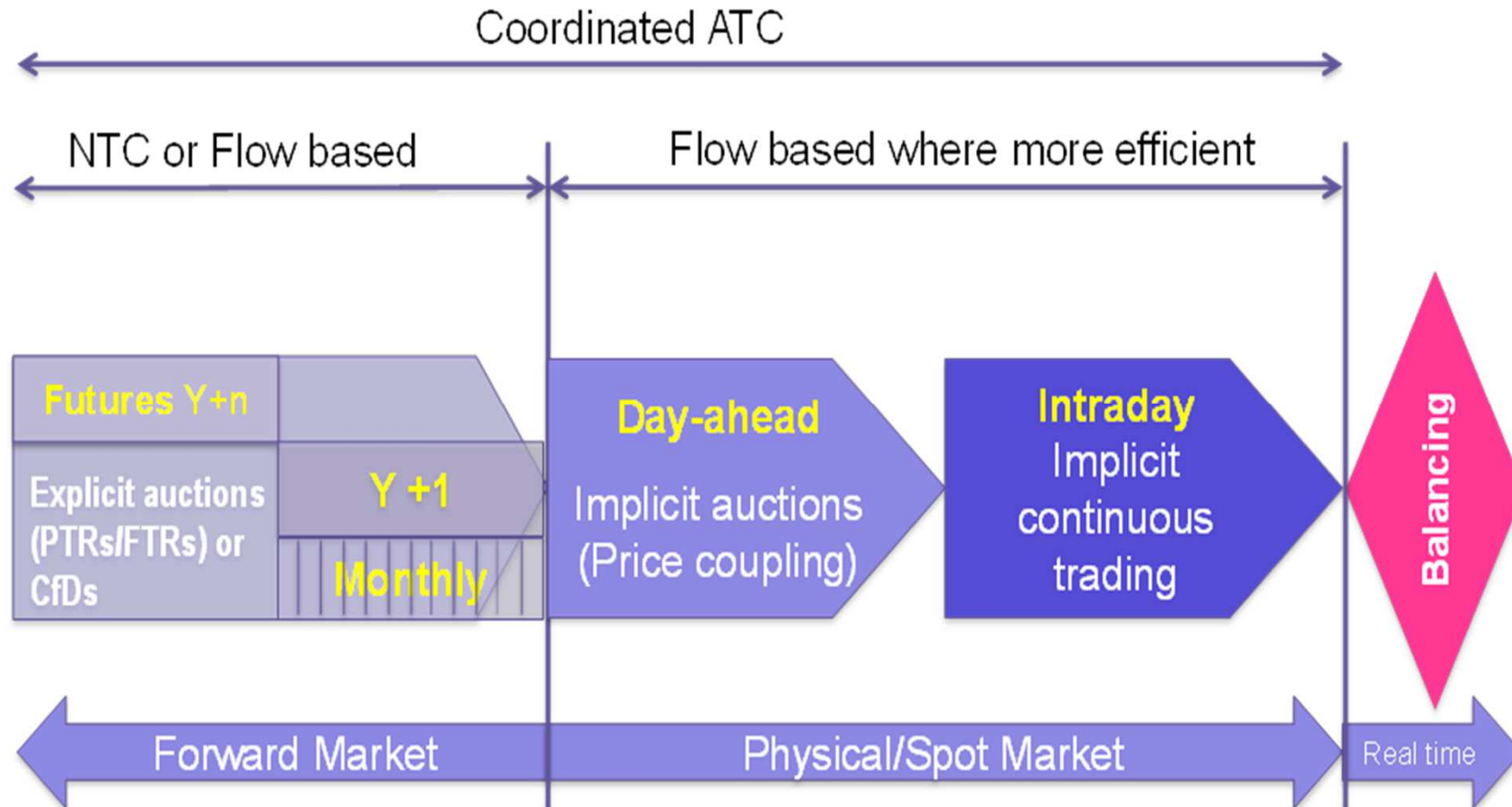
Challenges facing Europe



The Legal framework



The European Electricity Target Model



Electricity Regional Initiatives

- Launched 2006
- Brings market participants together (NRAs/TSOs/PXs)
- Divides Europe in 7 electricity regions
- Bottom up approach to completion of the Internal Electricity Market
- Projects ongoing to facilitate the early implementation of the European Electricity Target Model

Baltic Region



Central-East Region



Central-South Region



Central-West Region



Northern Region



South-West Region



France, UK and Ireland Region

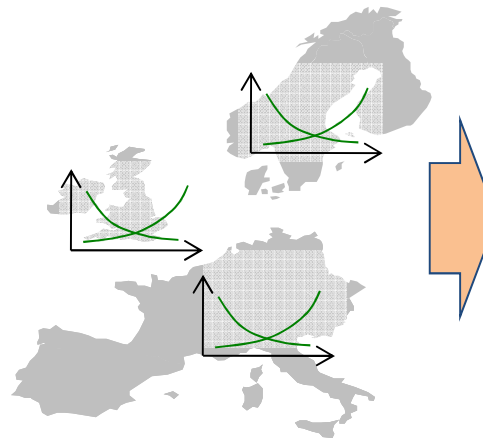


Market Coupling

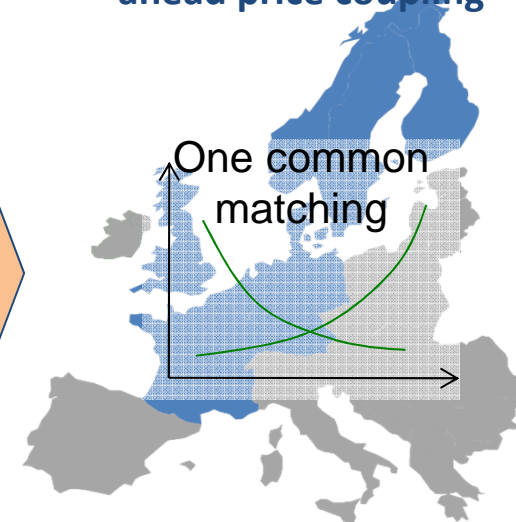
Status - Current day ahead market coupling



On-going process...



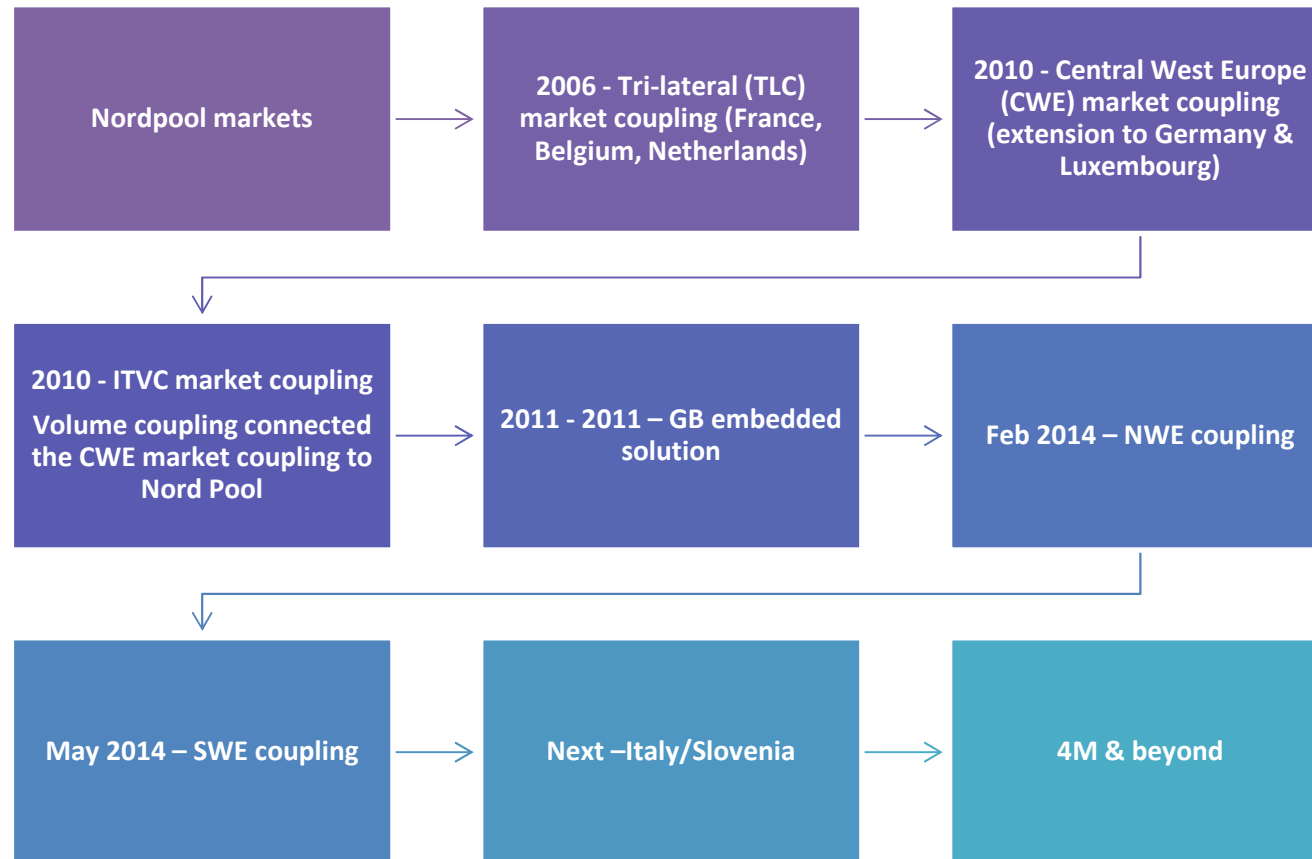
Nov. 2013 – NWE Day-ahead price coupling



Further Market Integration will deliver a Single European Market not only for Day-Ahead but also for Intraday, Forwards and Balancing



Market Coupling – the history



Early implementation of the Electricity Target Model

Day-Ahead Market Coupling

- 4 February 2014 North Western Europe were “coupled”
- 13 May 2014 South Western countries also joined
- End 2014 Italy and Slovenia expected to join

Intraday and balancing markets

- Slow progress on Intraday
- Balancing results to be seen in 2017

Forwards

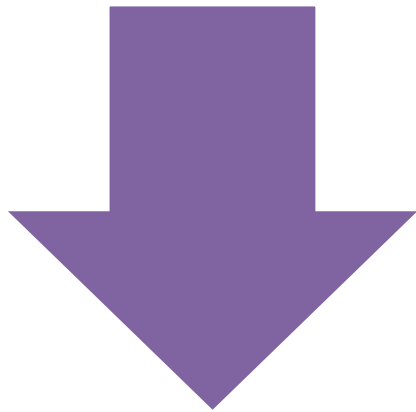
- Development of harmonised platform and auction rules in 2014/201



During the period from 2004, the main integration initiative in the electricity market has been the implementation of the Target Electricity Model based upon market coupling....

We have estimated that the benefits of the integration due to market coupling, once market coupling is fully implemented across the EU, will be of the order of €2.5bn to €4bn per year

Booz & Company, 2013



**Network codes set
legally binding rules**



**Building on voluntary
experience at regional
level**

**Network Codes are
European Laws**

**10 have been
developed**

**And will apply
across Europe**

**When they enter
into force in the
next year**

To deliver the required investments in energy infrastructure, the Infrastructure Package has:

- Identified *Priority Corridors*
- Set the framework for the identification of *Projects of Common Interest*, which can:
 - ✓ benefit from a faster and more transparent permit granting procedure;
 - ✓ apply for EU funding;
 - ✓ benefit from a specific regulatory treatment.

- Initial PCI selection through 4 regional groups
- Infrastructure taskforce set up with ACER and NRAs
- Worked through infrastructure task force to develop/challenge
 - principles for cost benefit analysis
 - comparisons of national ten year development plans with European plans
 - policy guidance for assessing cross-border cost allocations
 - incentives for high risk projects

Much ongoing cooperation with neighbouring NRAs

- CBCA applications
- Interconnector projects

Some closing observations

-
- Regional cooperation is vital
 - But a top down vision is needed to steer progress
 - Developing regional markets is a challenge
 - Governance is absolutely critical
 - But customer benefits can be large

Ofgem is the Office of Gas and Electricity Markets.

Our priority is to protect and to make a positive difference for all energy consumers. We work to promote value for money, security of supply and sustainability for present and future generations. We do this through the supervision and development of markets, regulation and the delivery of government schemes.

We work effectively with, but independently of, government, the energy industry and other stakeholders. We do so within a legal framework determined by the UK government and the European Union.

Electricity Network Codes

Process stage
(key below)

| | | | |
|-------------------|-----------------------|--|------------|
| Market codes | CACM | Capacity Allocation and Congestion Management: allocation of interconnector flows for day-ahead (market coupling) and intraday timeframes involving power exchanges and TSOs, and calculation of interconnector capacity | Dark Blue |
| | Forwards | Rules for allocating interconnector capacity via auction of monthly or annual contracts | Light Pink |
| | Balancing | Rules to share balancing resources between countries effectively | Light Pink |
| Technical codes | RfG | Technical Requirements for Generators connecting to transmission and distribution networks | Dark Blue |
| | DCC | Demand Connection Code: technical requirements for the connection of demand and distribution networks | Dark Blue |
| | HVDC | Requirements for long distance High Voltage Direct Current connections, links between different synchronous areas and DC-connected generators | Light Red |
| Operational codes | OS | Sets out Operational Security principles, coordination of system operation, and requirements for grid users connected to the transmission grid. | Dark Blue |
| | OP&S | Sets out roles and responsibilities for TSOs, DSOs and significant grid users towards the Operational Scheduling and Planning procedures and prescribes how to exchange data. | Dark Blue |
| | Load frequency | Sets frequency quality criteria and technical criteria for balancing reserves and synchronous system operation | Dark Blue |

