CROSS-BORDER COOPERATION IN THE ELECTRICITY SECTOR - THE NORDIC EXAMPLE
In the very beginning ...

Pearl Street Station started generating electricity on September 4, 1882, serving an initial load of 400 lamps at 85 customers.
The development of interconnection capacity in the Nordic region

Source: Annual report 1998, Nordel
The history of Nordel

Pre-Nordel interconnections
1963-1992 Vertical integration
1992-2000 Competition-unbundling
2000-2009 TSOs

Source: Sweco, 2013
Nordel’s organisation in 1992

Contact persons for:
• Information
• Generation statistics

Nordel

Operations committee

Planning committee

Committee for environment and generation

Secretariat

Working groups

Source: Nordel
The electricity transmission grid in the Baltic Sea Region
How is the decarbonisation of power supposed to play out?

*EU-27, Norway and Switzerland*

**New wave of electrification - from 20 to 35/40% of end use**

- **2010**: 3.370 TWh
- **2020**: 4.900 TWh

Source: ECF – Roadmap 2050
1: Eurostat (online data code: nrg_105a)
The context – interaction has grown more complex over time

Drivers
Target forced on markets
Pricing emissions
Subsidies
Emission standards
Governance
Organising markets
Infrastructure
Public demand
Technology breakthroughs

Obstacles
Low-quality interventions adding costs
Political inability to defend long-term benefits from “cost-attacks” by pressure groups
Lack of governance capacity to handle the transition
Lack of support from the main stream
Inability to handle interdependencies
Volume disease problems
A weak Europe

6/5/2014