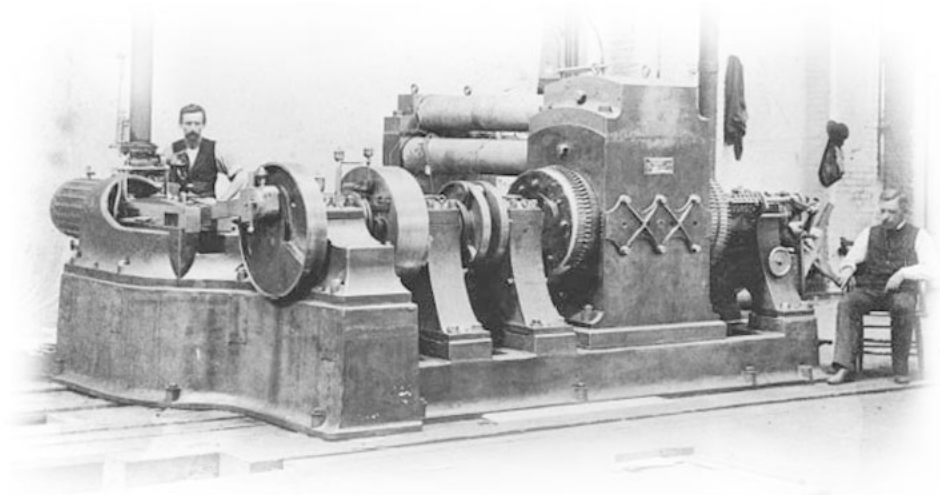
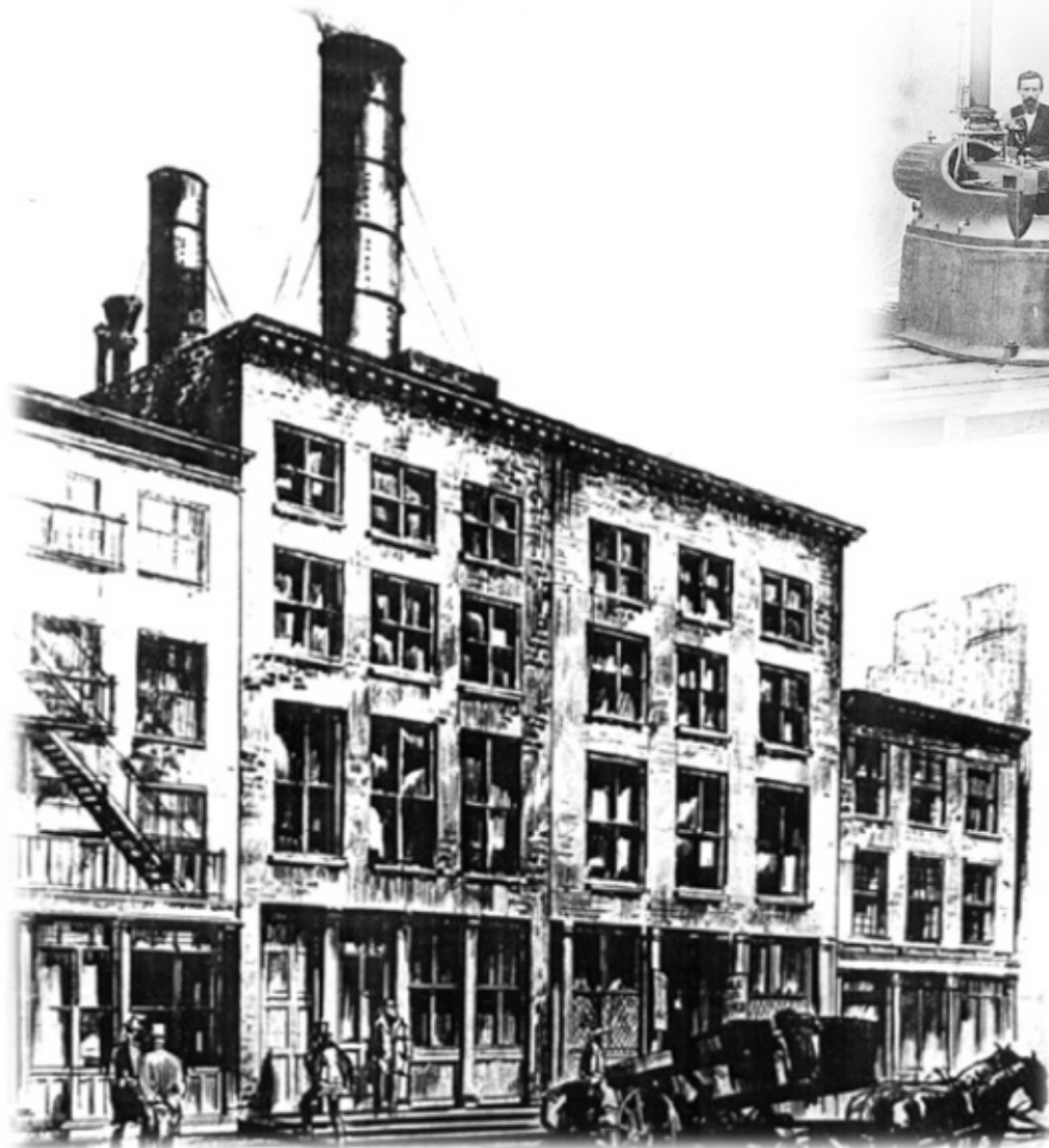




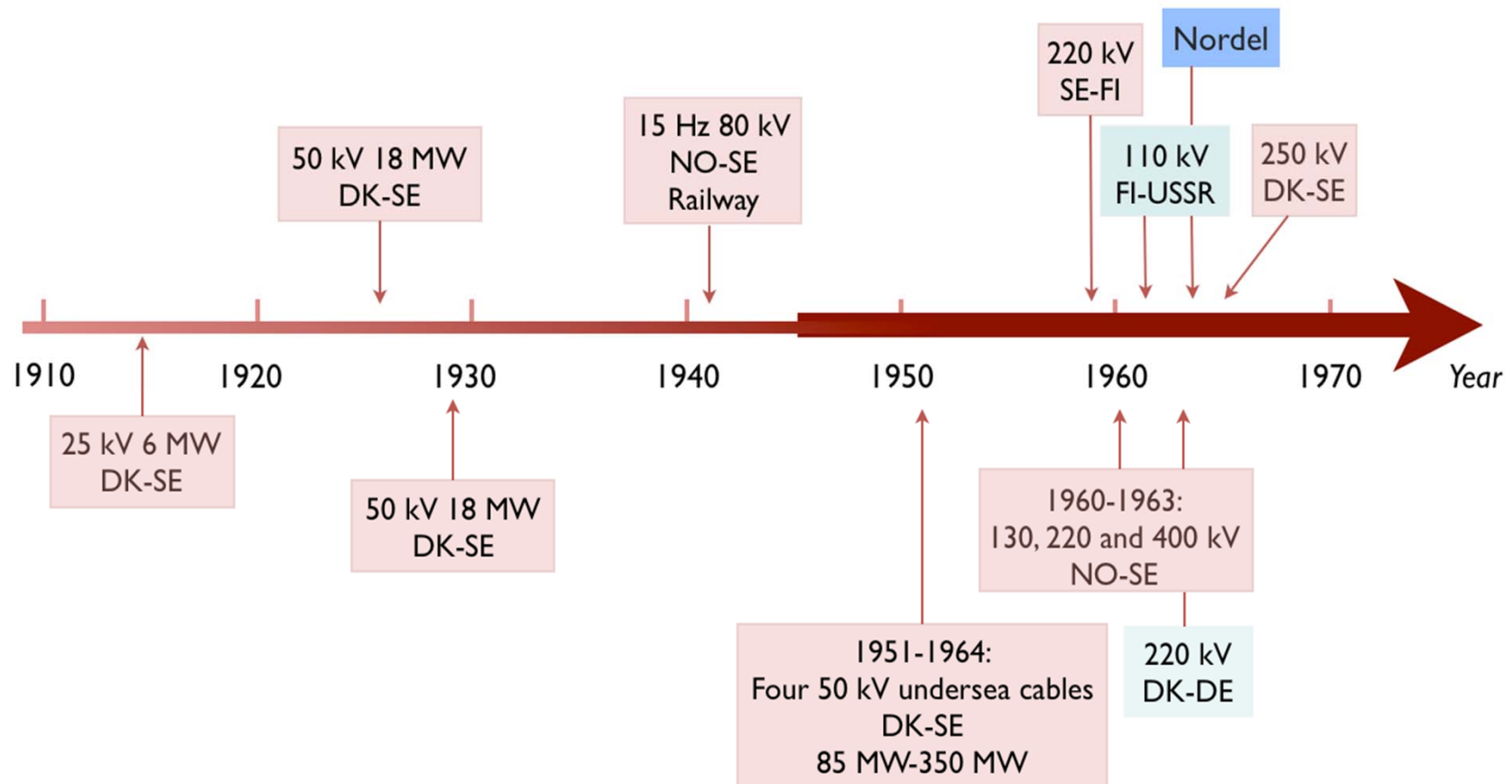
# **CROSS-BORDER COOPERATION IN THE ELECTRICITY SECTOR - THE NORDIC EXAMPLE**

In the very beginning ...



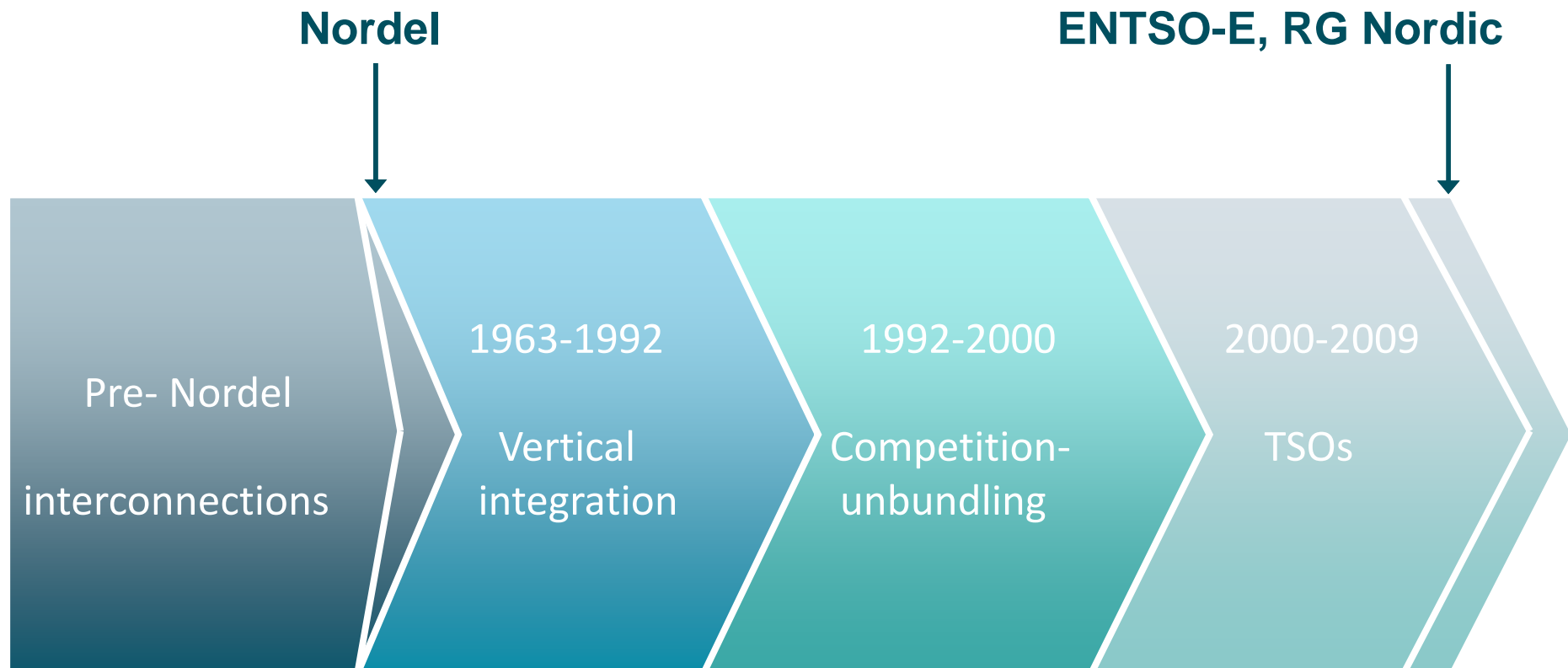
**Pearl Street Station**  
started generating  
electricity on  
September 4, 1882,  
serving an initial load  
of 400 lamps at 85  
customers.

# The development of interconnection capacity in the Nordic region

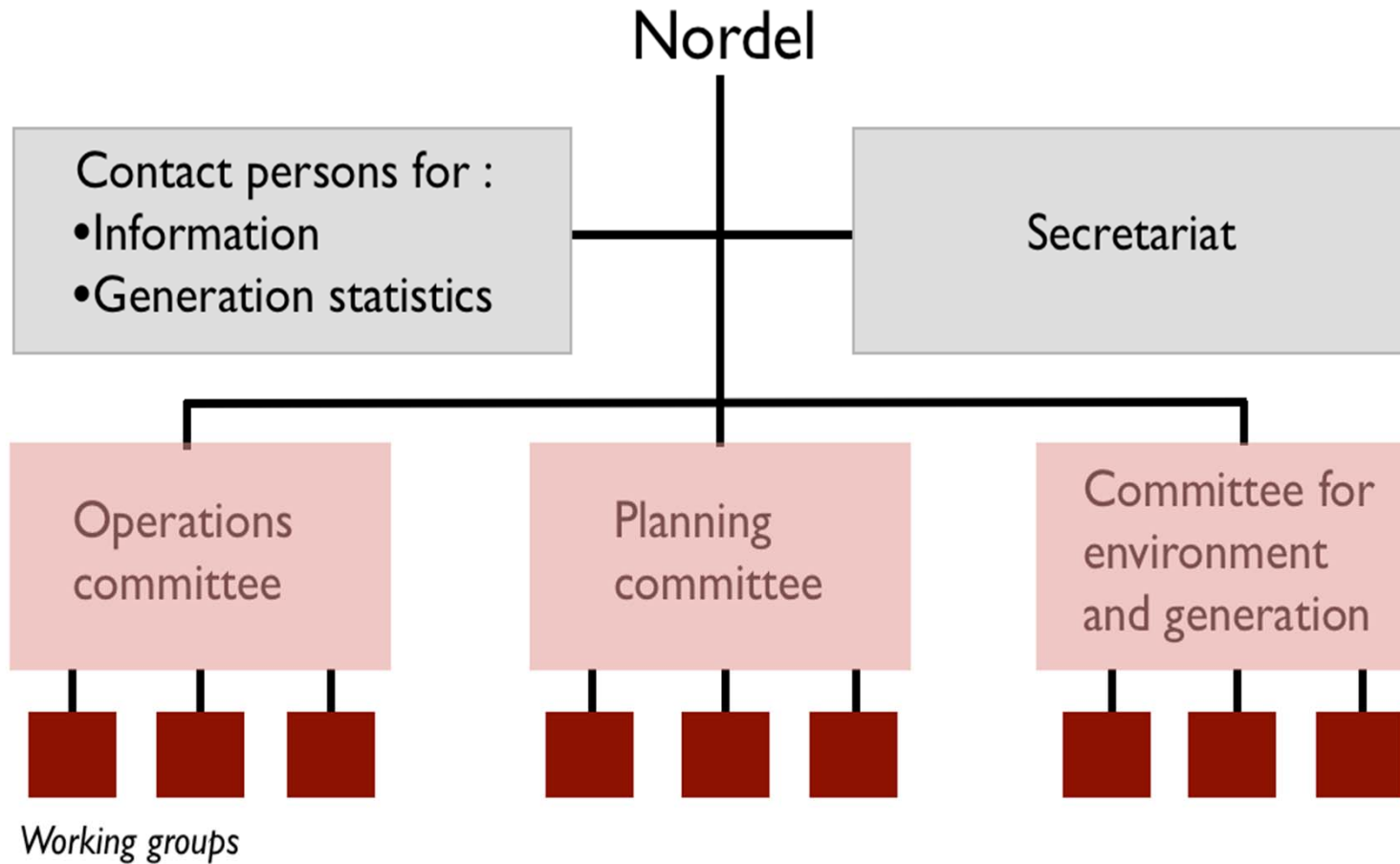


Source: Annual report 1998, Nordel <sup>2</sup>

# The history of Nordel



# Nordel's organisation in 1992



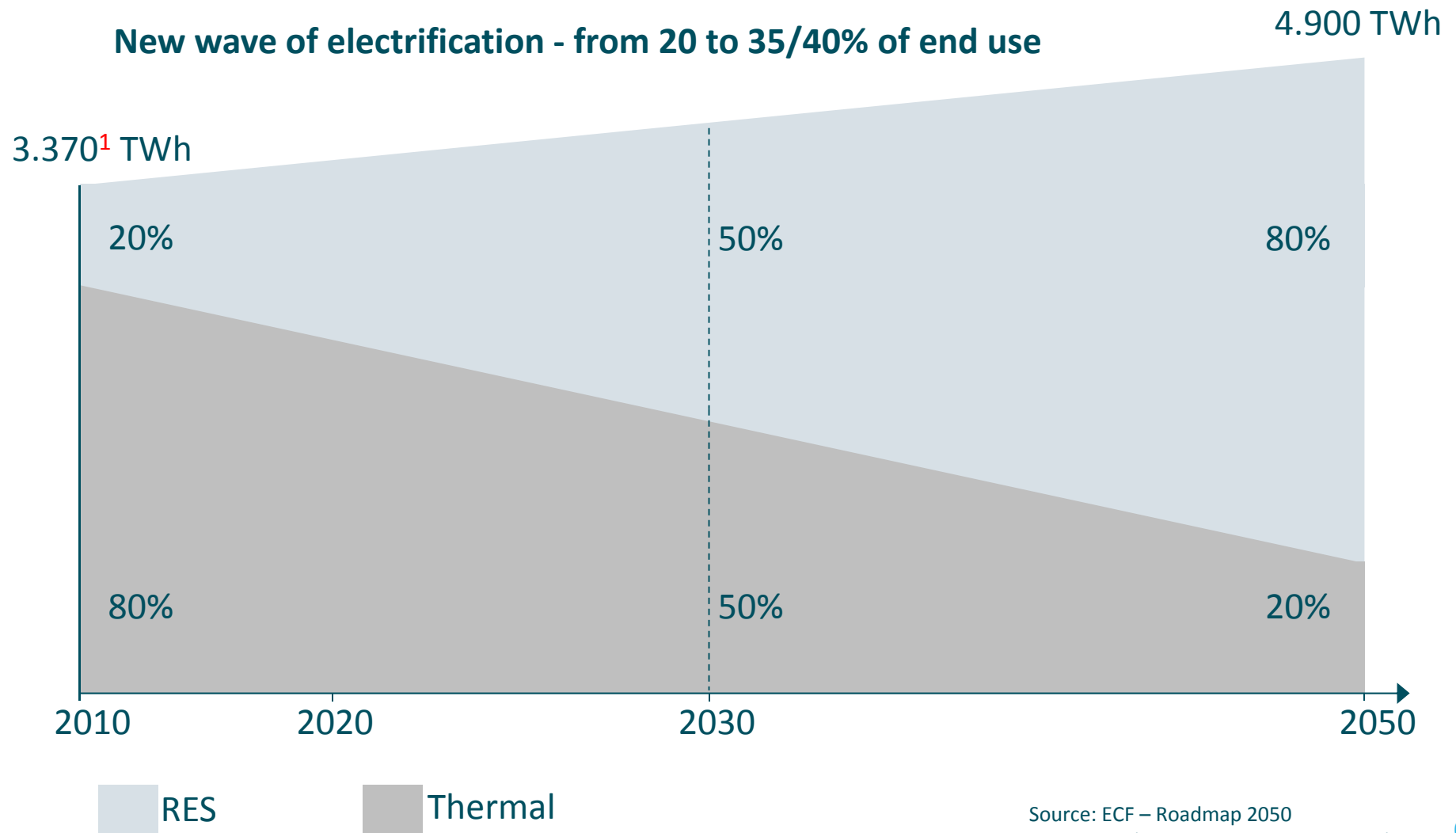
Source: Nordel

# The electricity transmission grid in the Baltic Sea Region



# How is the decarbonisation of power supposed to play out?

*EU-27, Norway and Switzerland*



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

Basic electrification

+ Play a major role in industrialisation/automatisation

+ A tax base

+ Open up for competition

+ Resource efficiency seen from society's perspective

## 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

Food for thought

6/5/2014