

Production

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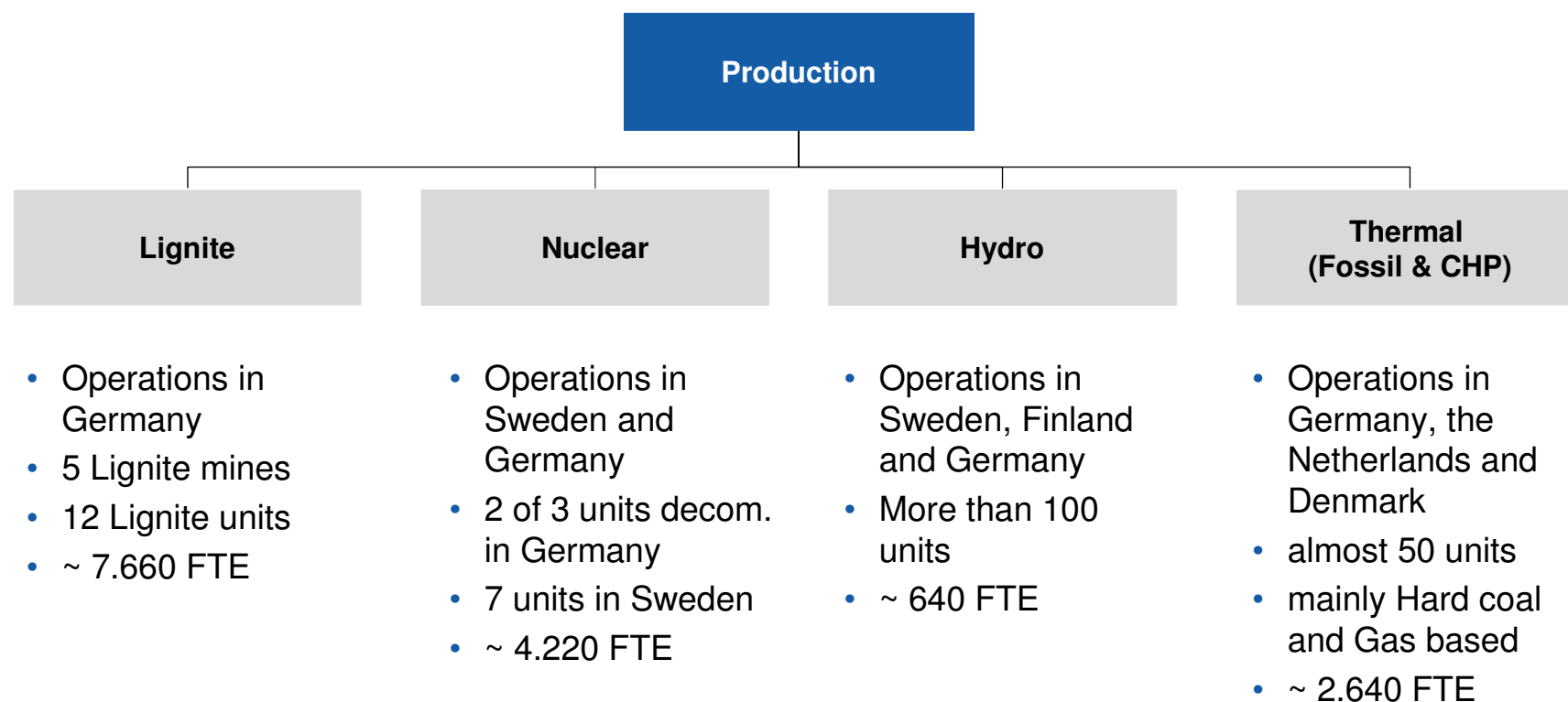
Today's focus

- Organisation and key figures
- Installed capacity
- Focus areas
- Main activities and achievements
- Future challenges

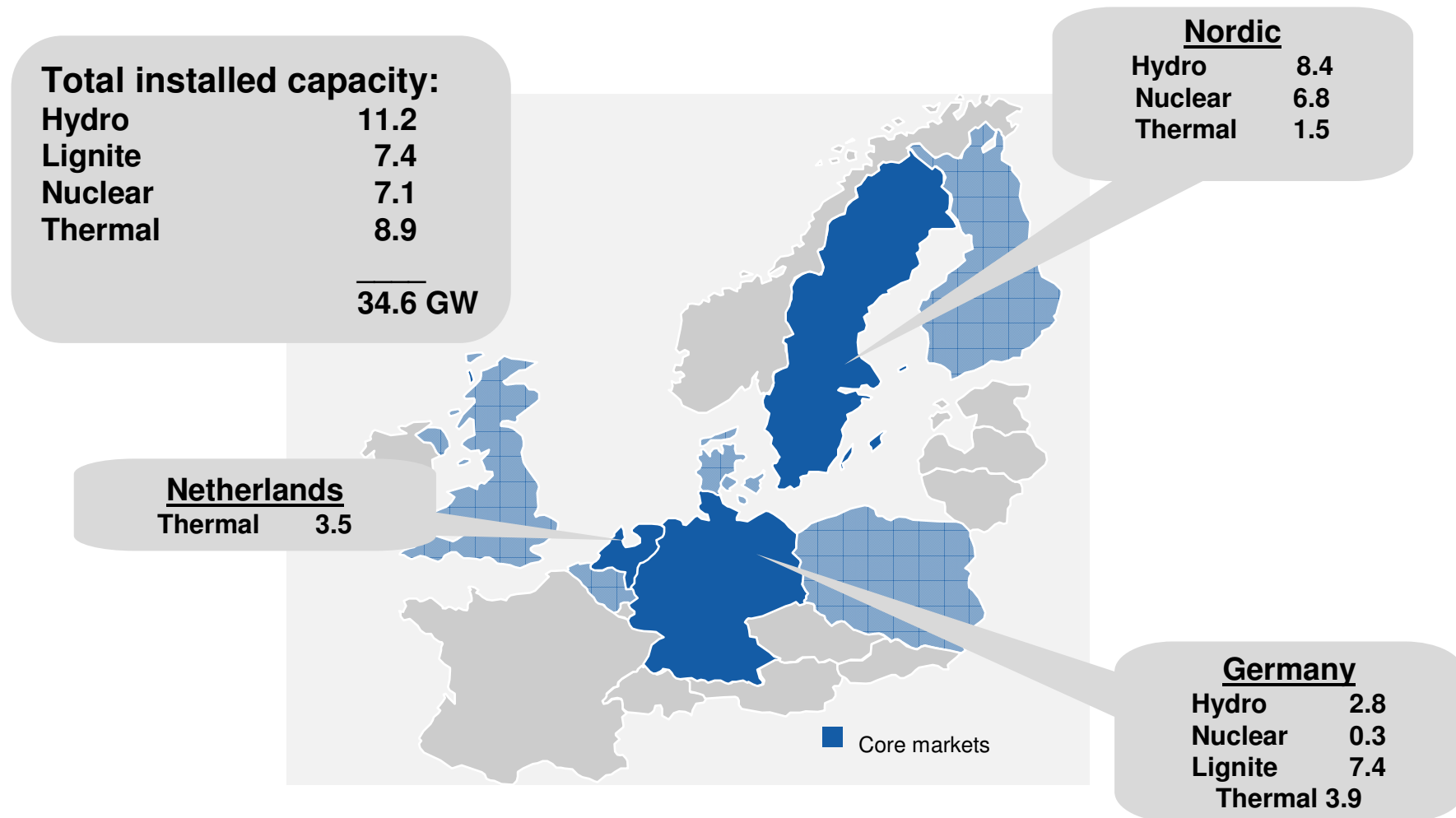
Organisation and key figures

Key figures

- Installed capacity (2011): 34,600 MW_{el}
- Electricity Production: 149 TWh_{el}
- FTE: ~ 15,200



Installed capacity (GW)



Focus areas

- Improve safety and commercial availability
- Optimise plant operations and maintenance to reduce costs
- Secure lignite mining reserves to fully utilize the remaining life time of existing capacities
- Prepare for the decommissioning of German nuclear plants
- Review the asset portfolio to identify and fix underperforming assets
- World class safety in nuclear

Our main activities and achievements so far

- Priority for Safety
 - Top-KPI “*Lost Time Injury Frequency*” (LTIF) closely monitored
 - LTIF is decreasing (H1 2011: 4.3), continued positive development
- Availability at 82% during H1 2011 (2010: 80%)
 - however nuclear plants and some thermal plants lower than expected
- Division-wide cost reduction and continuous improvement programmes have been initiated
 - Positive development of cost cutting efforts during H1 2011
 - Maintenance costs lower than plan
 - Organisational streamlining ongoing
- Asset portfolio review has been completed and low performing assets identified
- Benchmarking of operations is under way

Future challenges

Nuclear phase-out Germany	<ul style="list-style-type: none">• No restart of Vattenfall's nuclear plants Brunsbüttel and Krümmel• All German nuclear plants to be shut down at the latest by 2022
Nuclear Availability Sweden	<ul style="list-style-type: none">• Unsatisfactory due to a number of delayed outages in Q2
CCS* legislation Germany	<ul style="list-style-type: none">• Vattenfall will not build any lignite or hard coal fired plants until CCS is commercially viable
Start of full auction of CO ₂ in 2013	<ul style="list-style-type: none">• Abatement of CO₂ by higher techn. efficiency and co-firing of biomass• Expected additional costs 2013 vs. 2012 due to full auctioning: ~EUR 750 million
Fees and taxes	<ul style="list-style-type: none">• Continued discussion about increasing fees and taxes (e.g. property tax Sweden)

* Carbon Capture and Storage