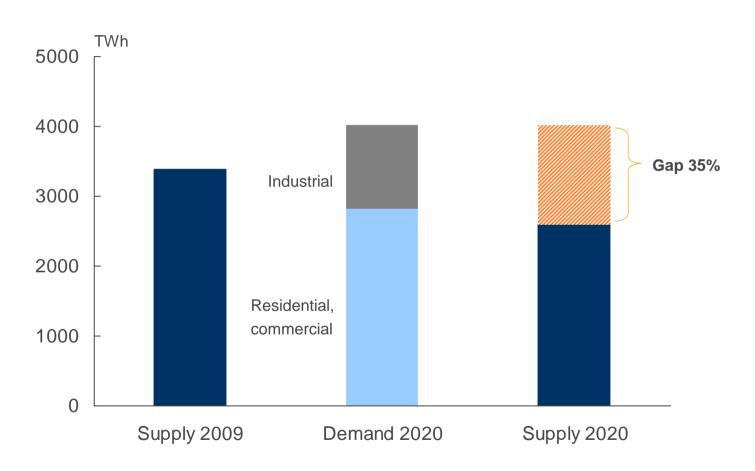


GROWTH IN COMPETITIVE LOW-EMISSION ENERGY



Fully open energy markets are needed in Europe to fulfill the electricity D/S gap by 2020





Source: International Energy Agency (IEA); World Nuclear Association (WNA); PowerVision by Platts; McKinsey Integrated Power Model; European Energy and Transport: Trends to 2030 – 2007 update. Covering major European markets

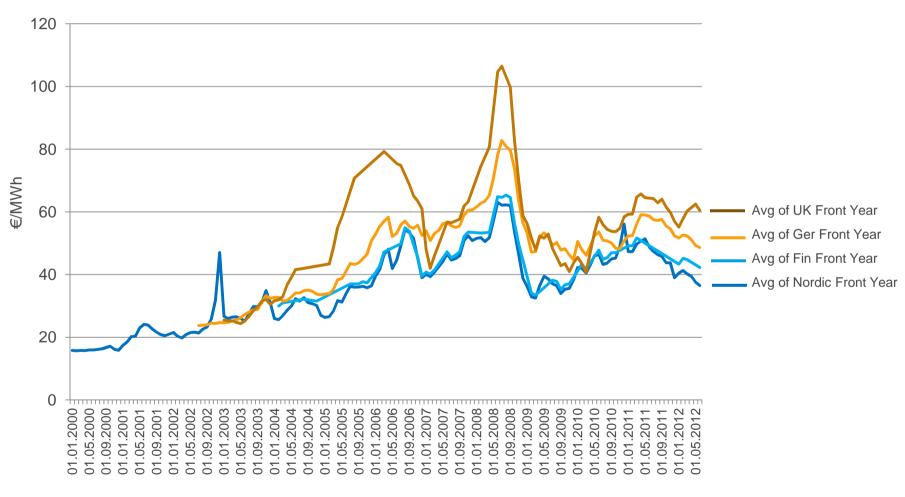


Market integration is taking place all the time

Interconnection 2010 New interconnections until 2020 Nordic: Russia: Investments to Importer in the future; production opening of market is capacity needed necessary as to fulfill D/S gap deficit of electricity already exists **Germany:** D/S gap already exists Total of 5,8GW interconnection Additional of **7,4** GW interconnection capacity installed capacity planned until 2020

Increasing transmission capacity will connect Nordic and Continental prices in the future





Source: Nord Pool, EEX, Reuters

4 | © UPM

Achievements in key targets





- Re-organize from resource function to business
- Set up the organisation and expertise in multi commodity energy trading
- Trading of power, gas, coal and emission allowances
- Market presence in Nordic and Central European markets



- 2 Leverage market operations
 - Growth in physical and derivatives trading activities
 - Growth in traded volumes and new products
 - Keep net gain positive (external sales vs. external purchases)



- 3 Expand in cost competitive low-emission energy
 - Utilisation of cost competitive energy sources
 - Increased stake in Pohjolan Voima Oy

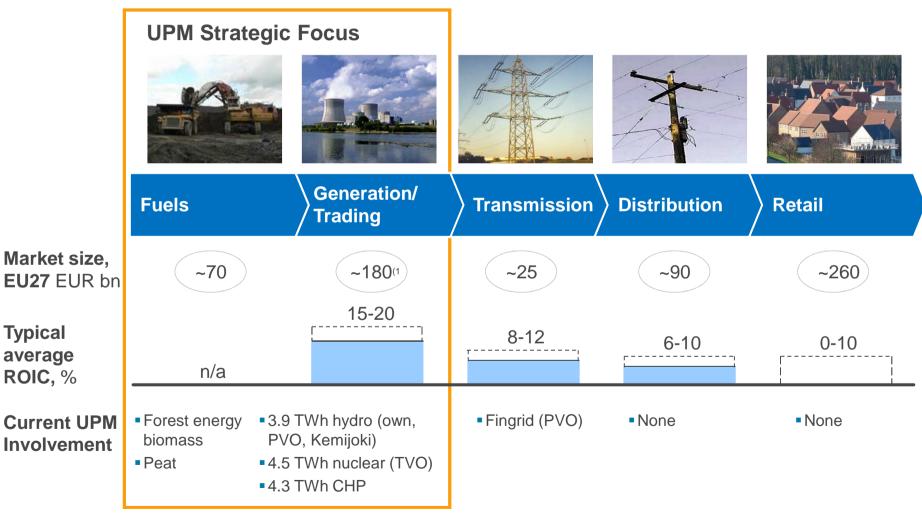


- 4 Future growth
 - New nuclear power reactor OL3 at Olkiluoto in Finland in 2014
 - · Participation in OL4 bidding and engineering



UPM targeted value chain position: Generation and trading, biomass based fuels





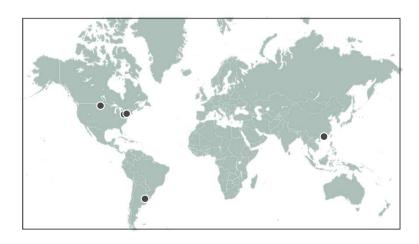
¹⁾ Excluding heat sales

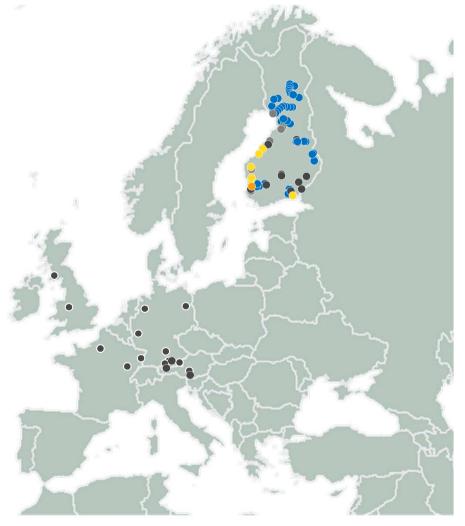
UPM has long and vast experience in electricity generation with unique production fleet



- Own hydropower plants,
 Share-owned hydropower plants
- Thermal power plant PVO
- Nuclear power plant PVO
- Wind power plant Innopower
- Paper and pulp mill sites and power plant, mill hydro power plant





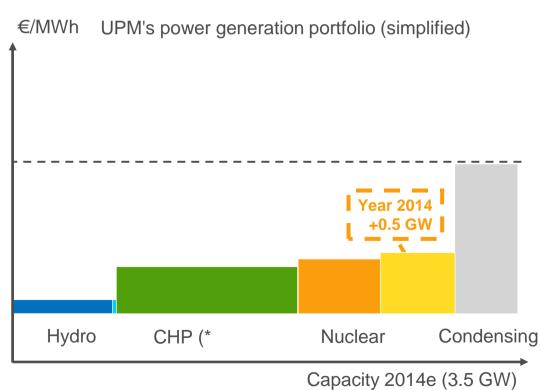


UPM is strong in low-cost, low-emission electricity generation



Electricity generation capacity in 2012

Type	Nominal capacity
Hydropower	702
Nuclear power	581
Condensing power	431
Wind power	2
Total in Energy	1,716
CHP and hydropower at mill sites	1,561
Total UPM	3,277

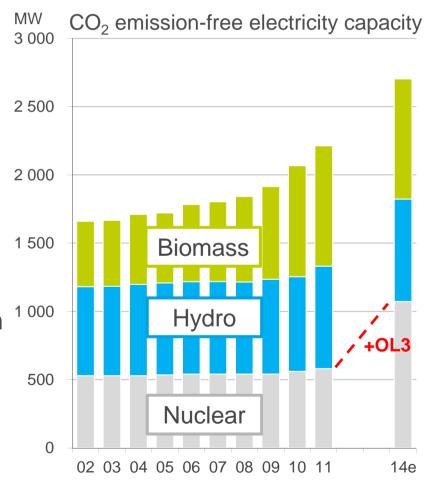


*) Combined Heat and Power

Consistent growth in low-emission electricity generation, over EUR 1 billion invested since 2000 The Biofore Company UPM



- During the past decade:
 - 84% growth in biomass-based electricity generation
 - 15% growth in hydropower
- UPM is the second-largest generator of biomass based energy in Europe
- 79% of UPM's power generation is CO₂ neutral

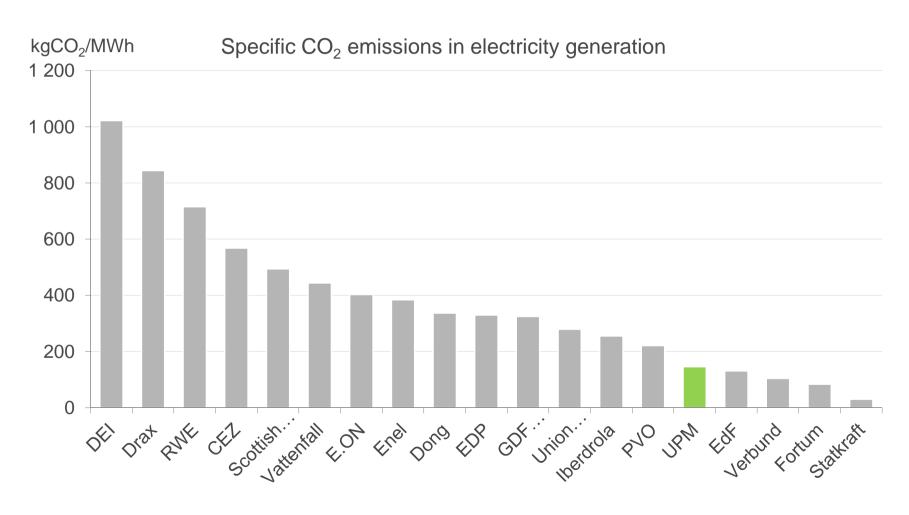




- UPM has a 33% of Olkiluoto 1 and 2 nuclear power production capacity and 30% of the new OL3 output, which will began operation in 2014
- UPM is participating in the planning phase of OL4

UPM is well positioned and aims to grow in low-emission electricity generation





Source: PWC 2011, UPM

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Summary



- Fully open energy markets and significant power generation investments are needed to fulfill D/S gap in Europe by 2020
- Increasing transmission capacity will connect Nordic and Continental prices in the future
- UPM has competitive, low emission energy assets
- UPM has continuously developed its competencies and platform to be able to achieve future growth in profitable low-emission energy generation



