

An aerial night view of a city, likely Bucharest, showing a wide river (Danube) on the left, a multi-level highway bridge crossing it, and numerous illuminated buildings and streets. The sky is dark with some clouds, and the city lights create a warm glow.

Cross-border trading — the Polish case

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Energy Trading CSEE 2016
Bucharest, 15 June 2016

Cross-border trading – the Polish case

Market coupling via SwePol and LitPol cables

Non-coordinated auctions on Polish-Ukrainian border

Importing power from Germany and Czech Republic

Polish power market



Electricity generation in Poland 2015

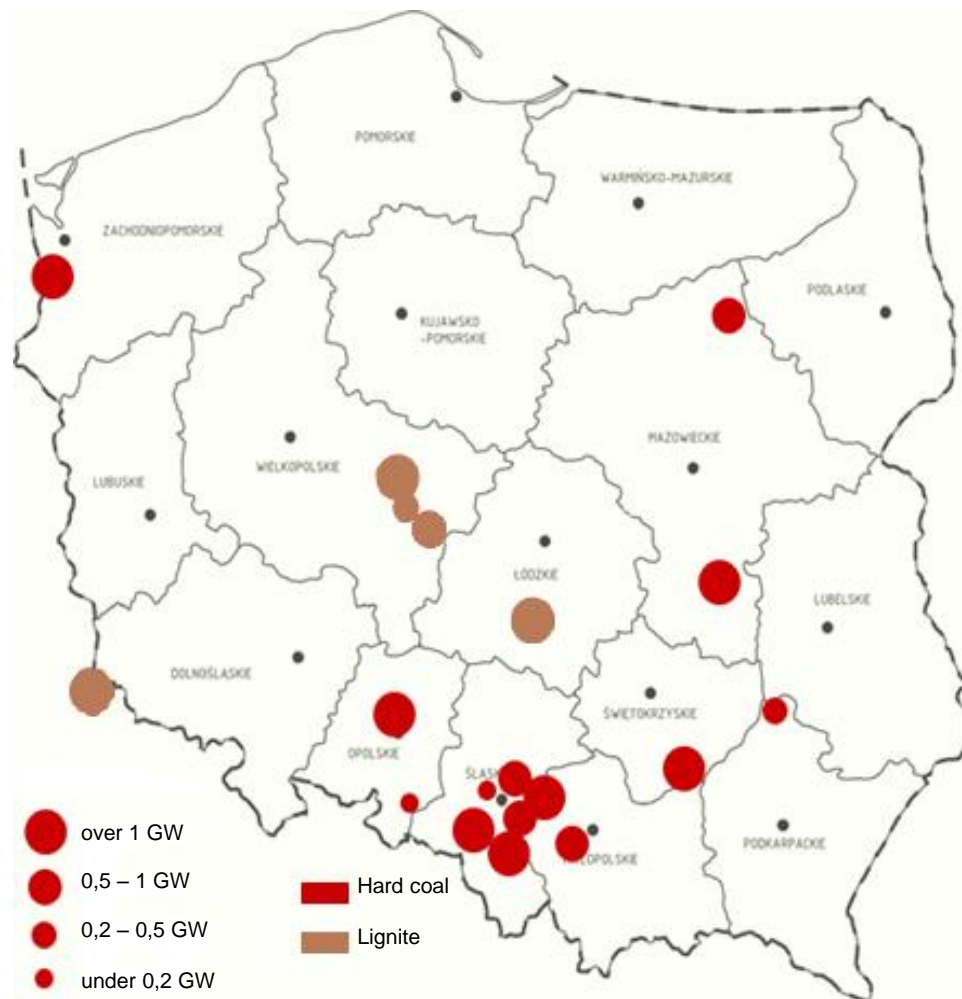
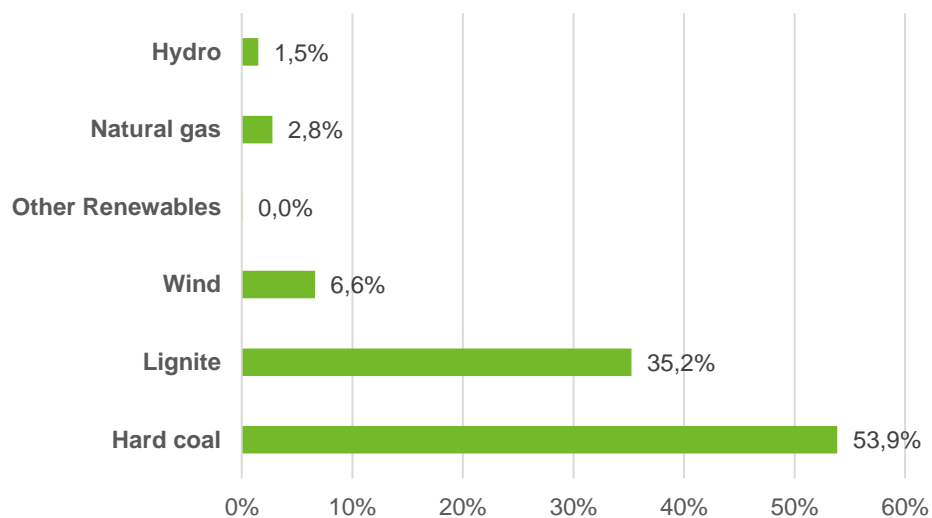
Total installed capacity: 40 445 MW

Energy production: 161,8 TWh

Energy consumption: 161,4 TWh

Net export: 0,4 TWh

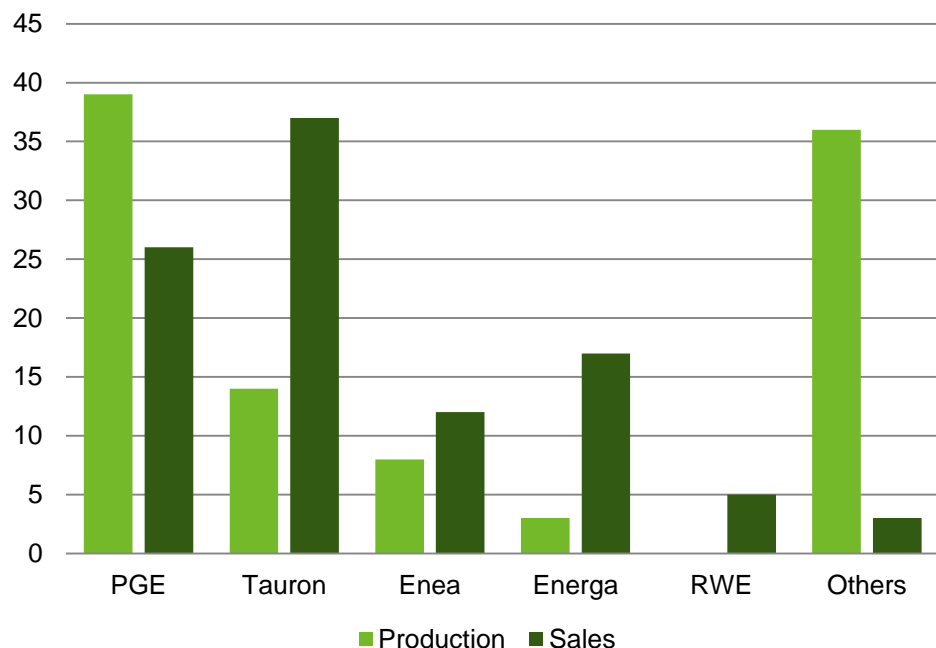
Fuel mix in Poland (2015) - production



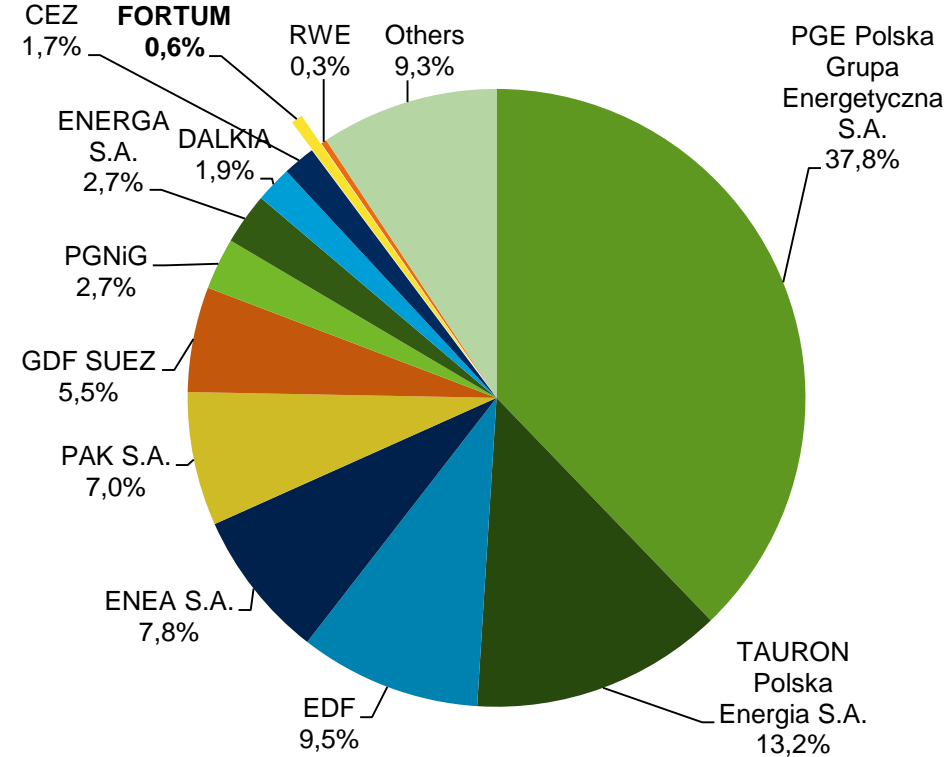
Source: PSE

Electricity generation and sales in Poland (2014)

Market share (%) in energy production and sales

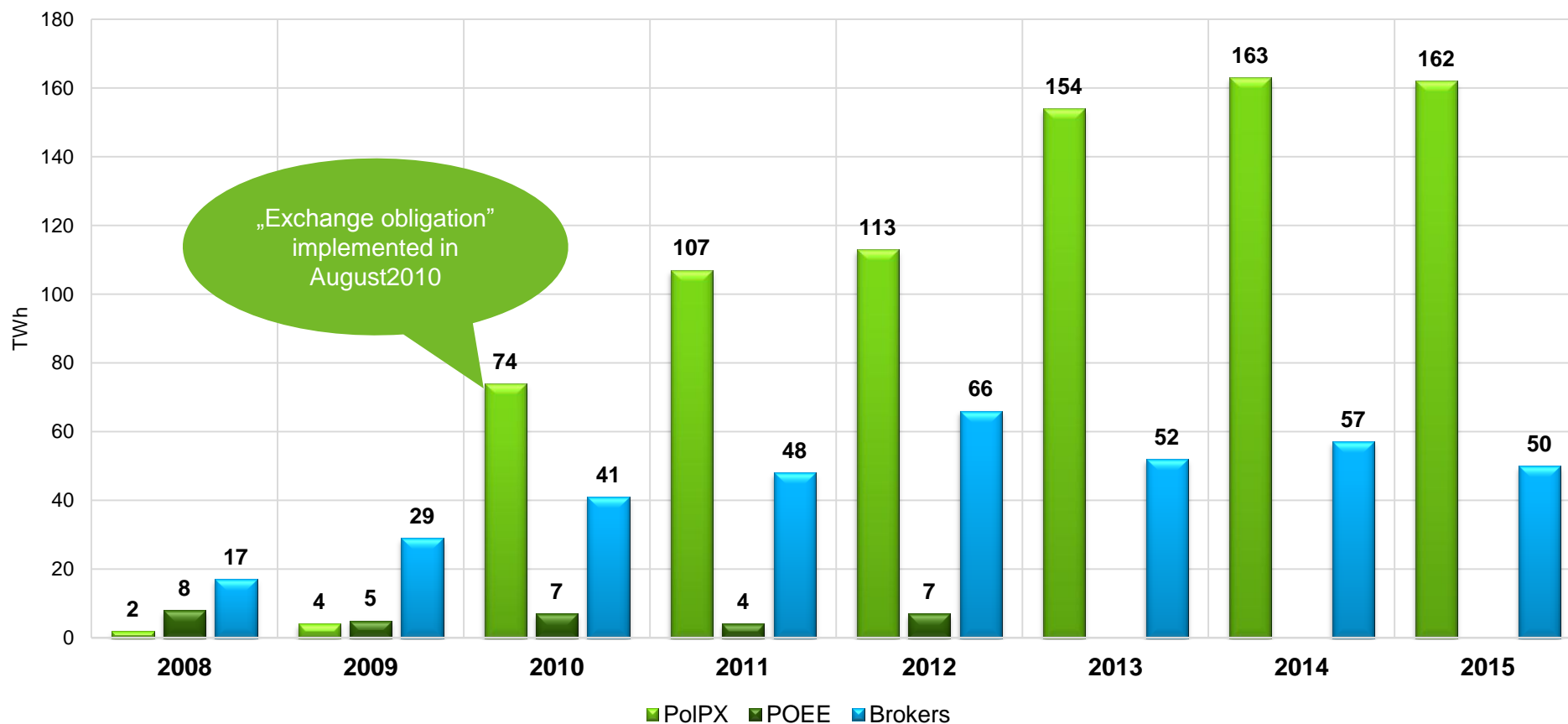


Structure of power production in Poland



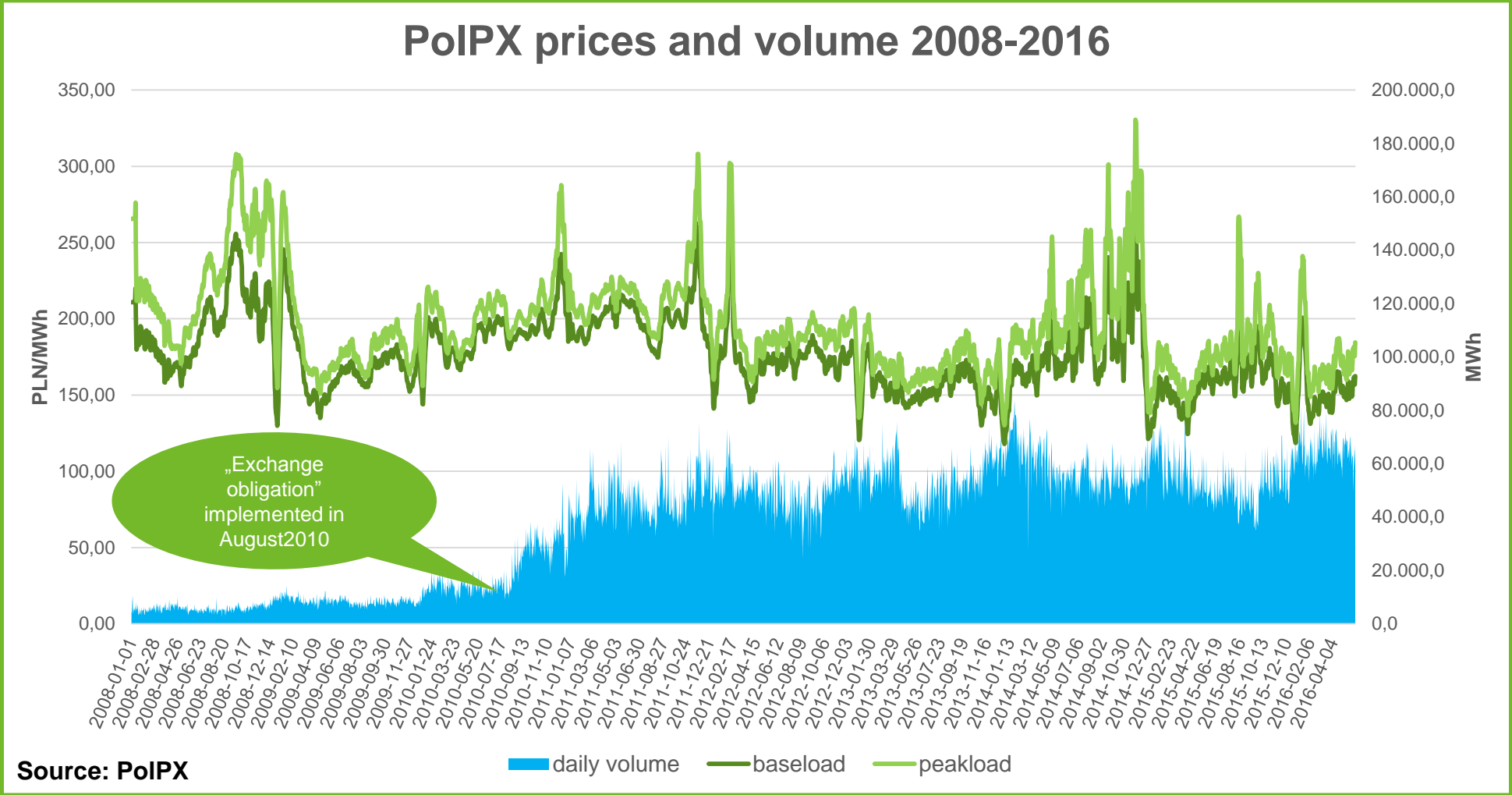
Electricity trading in Poland – success story

Forward market - traded volumes



Source: TOE

Electricity trading in Poland – succes story



Cross-border interconnectors and flows

Physical flows (2015)

Export 14 793 GWh

to	
Czech Republic	9 765 GWh
Germany	172 GWh
Lithuania	65 GWh
Slovakia	4 926 GWh
Sweden	20 GWh

Import 14 459 GWh

from	
Czech Republic	208 GWh
Germany	6 048 GWh
Lithuania	14 GWh
Sweden	3 512 GWh
Ukraine	67 GWh

Sweden 600 MW

Market Coupling via SwePol Link (part of European Price Coupling of Regions)

Russia

No power flows

Lithuania 500 MW

Market Coupling via LitPol Link (part of European Price Coupling of Regions)

Germany 1800 MW

Coordinated explicit auctions
Installation of PAR - In: 500 MW, Out: 1500 MW
New line - In: 1500 MW, Out: 500 MW

Belarus

Merchant line

Czech Republic 1800 MW

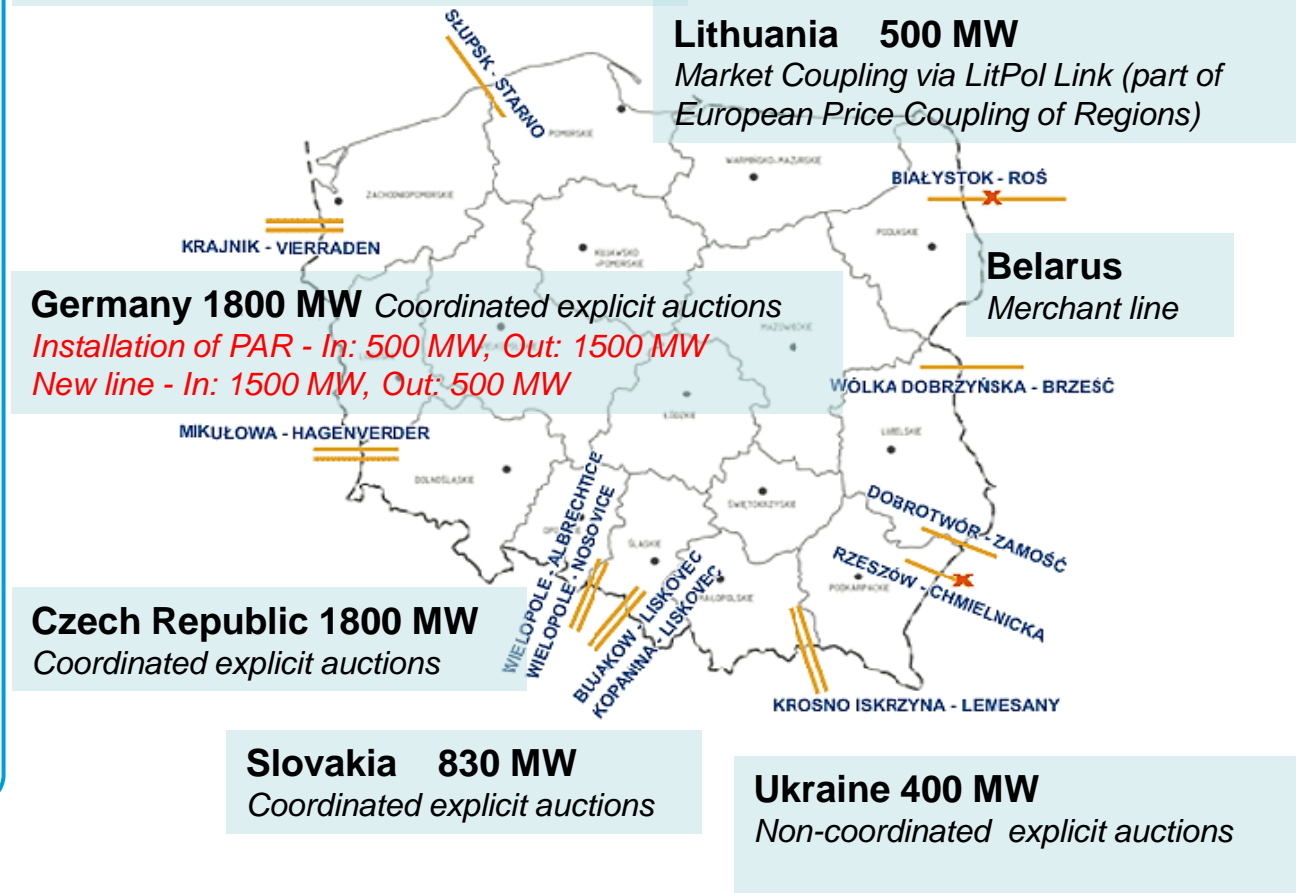
Coordinated explicit auctions

Slovakia 830 MW

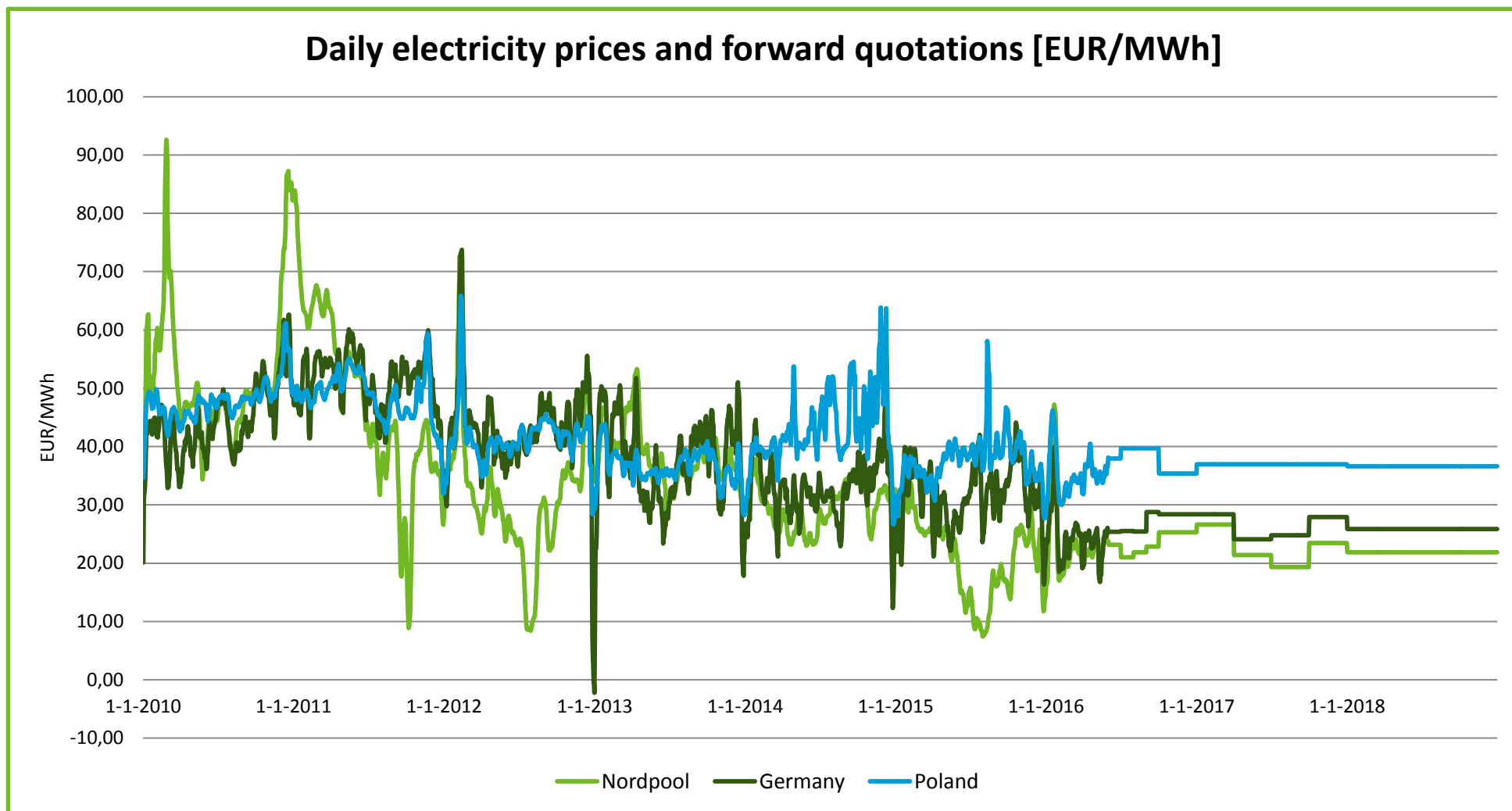
Coordinated explicit auctions

Ukraine 400 MW

Non-coordinated explicit auctions



Electricity prices in Poland, Germany and Nordics

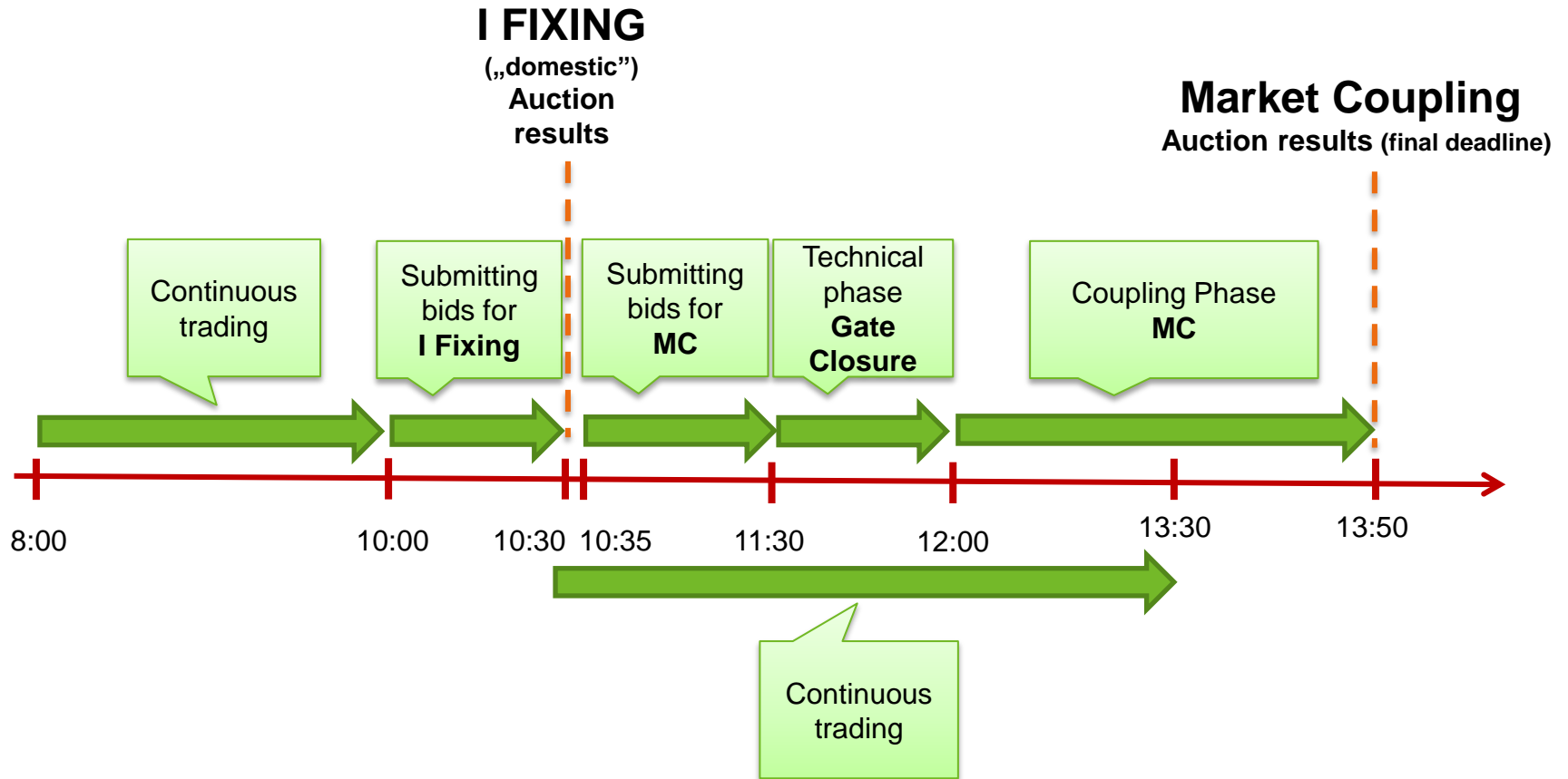


Cross-border trading – the Polish case

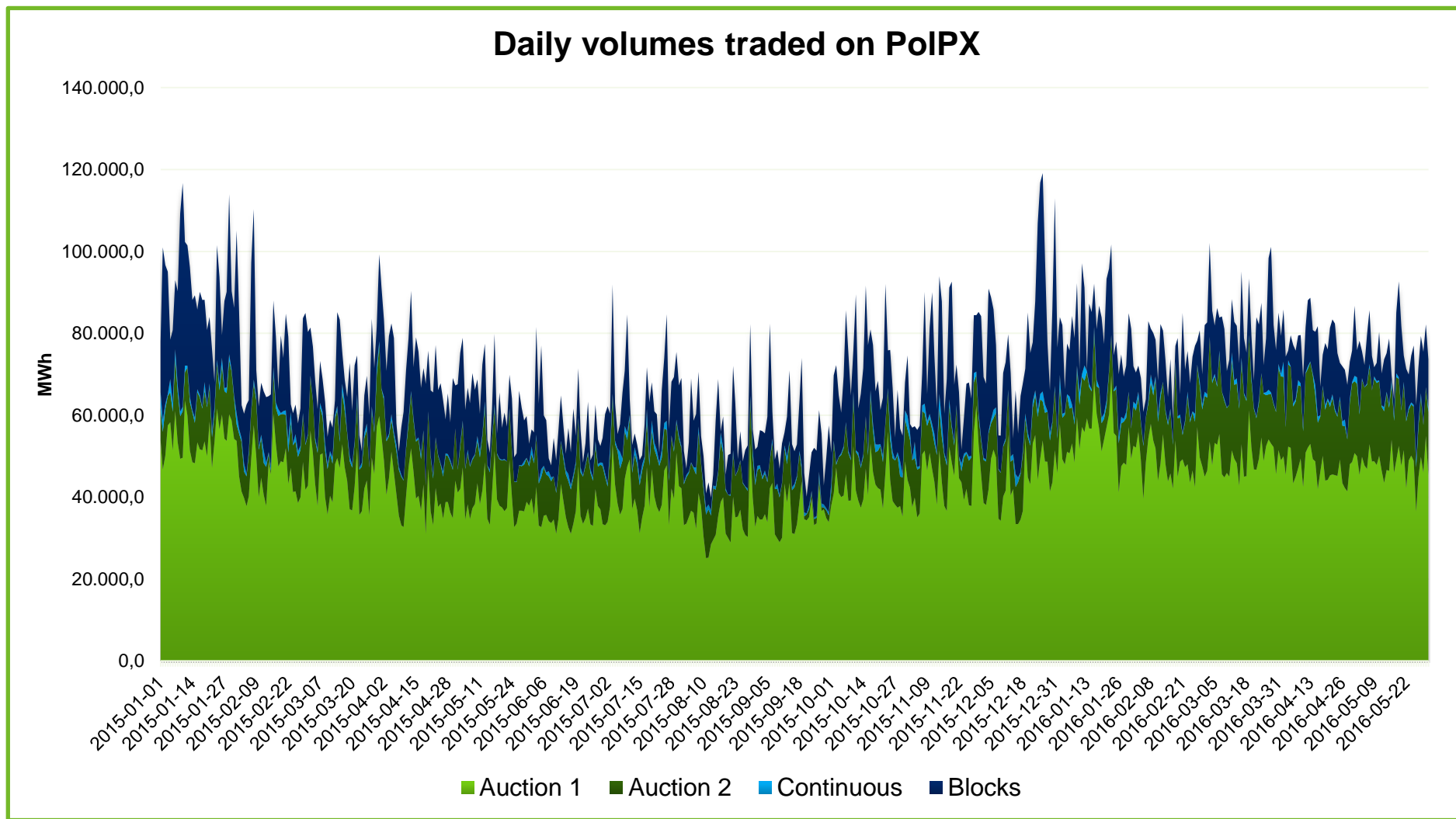
Market coupling via SwePol and LitPol cables



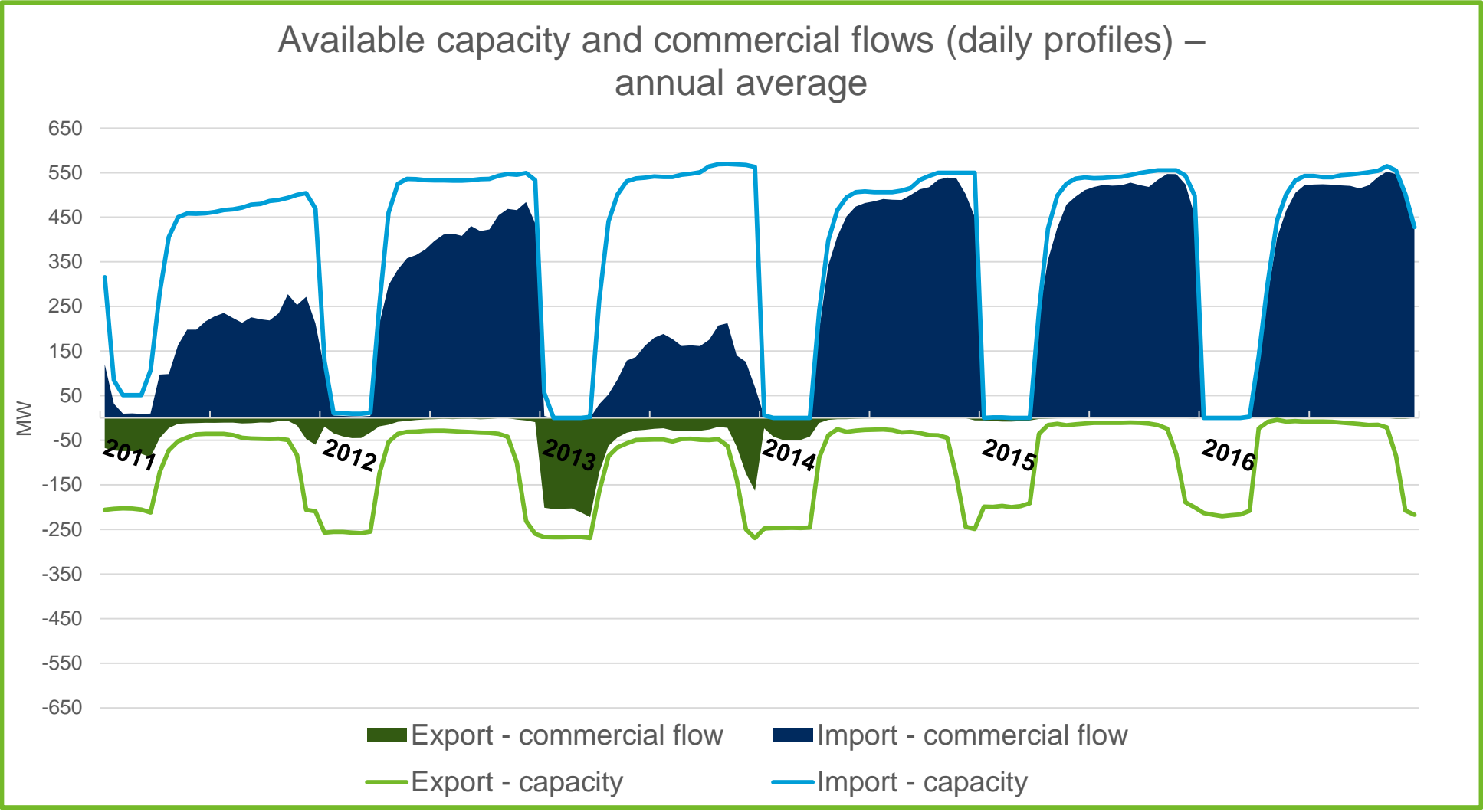
Polish Power Exchange – daily schedule for day-ahead market



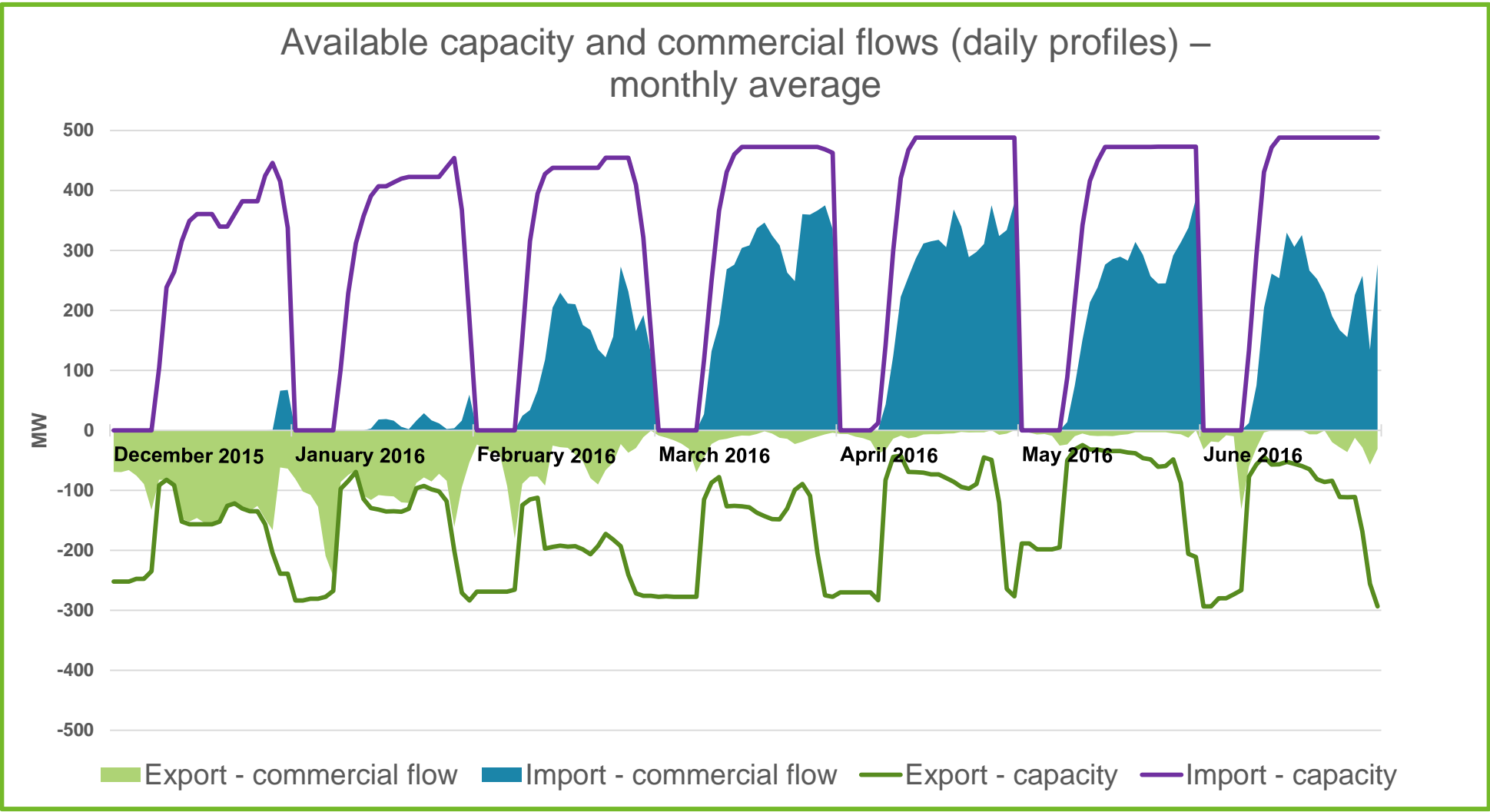
Polish Power Exchange – day-ahead market



Trading on SwePol cable



Trading on LitPol cable



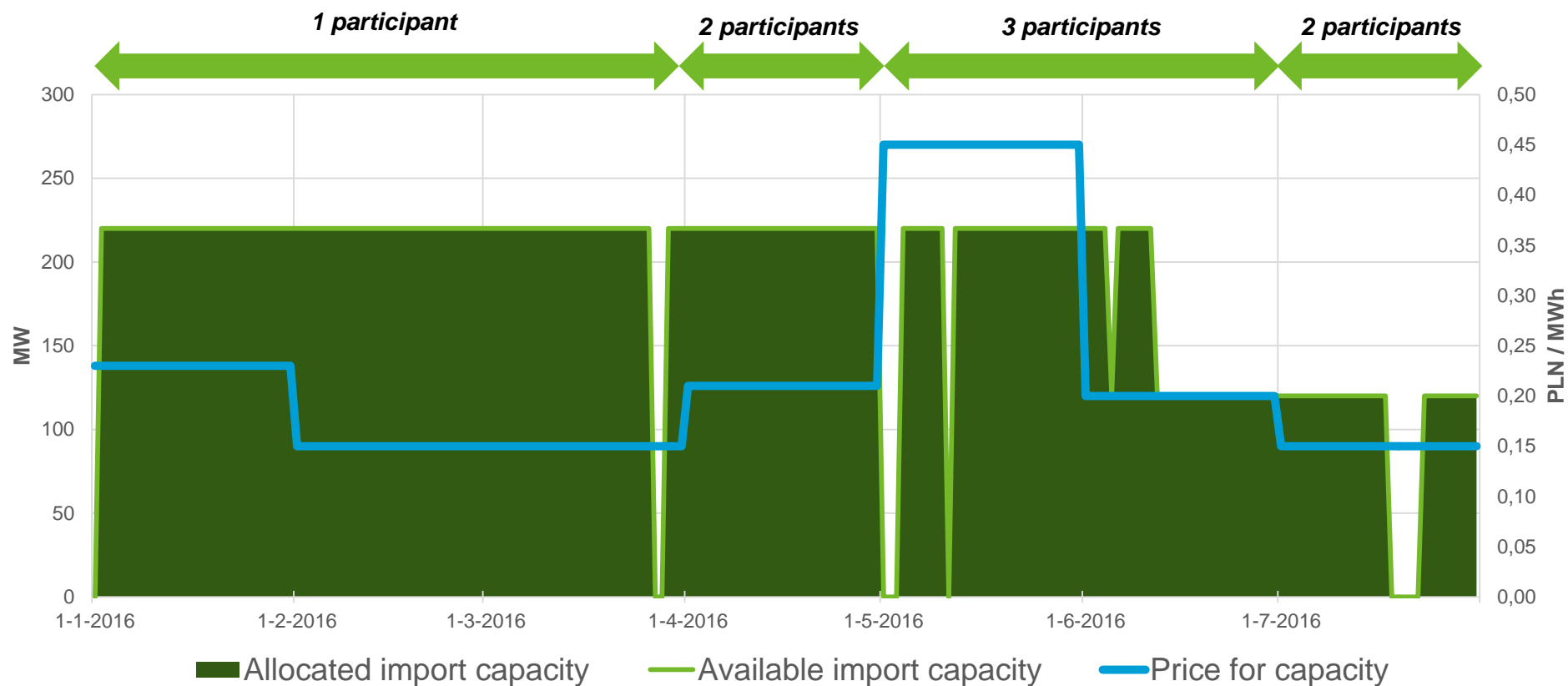
Cross-border trading – the Polish case

Non-coordinated auctions
on Polish-Ukrainian border



Non-coordinated auctions on Polish-Ukrainian border

Importing electricity from Ukraine 2016

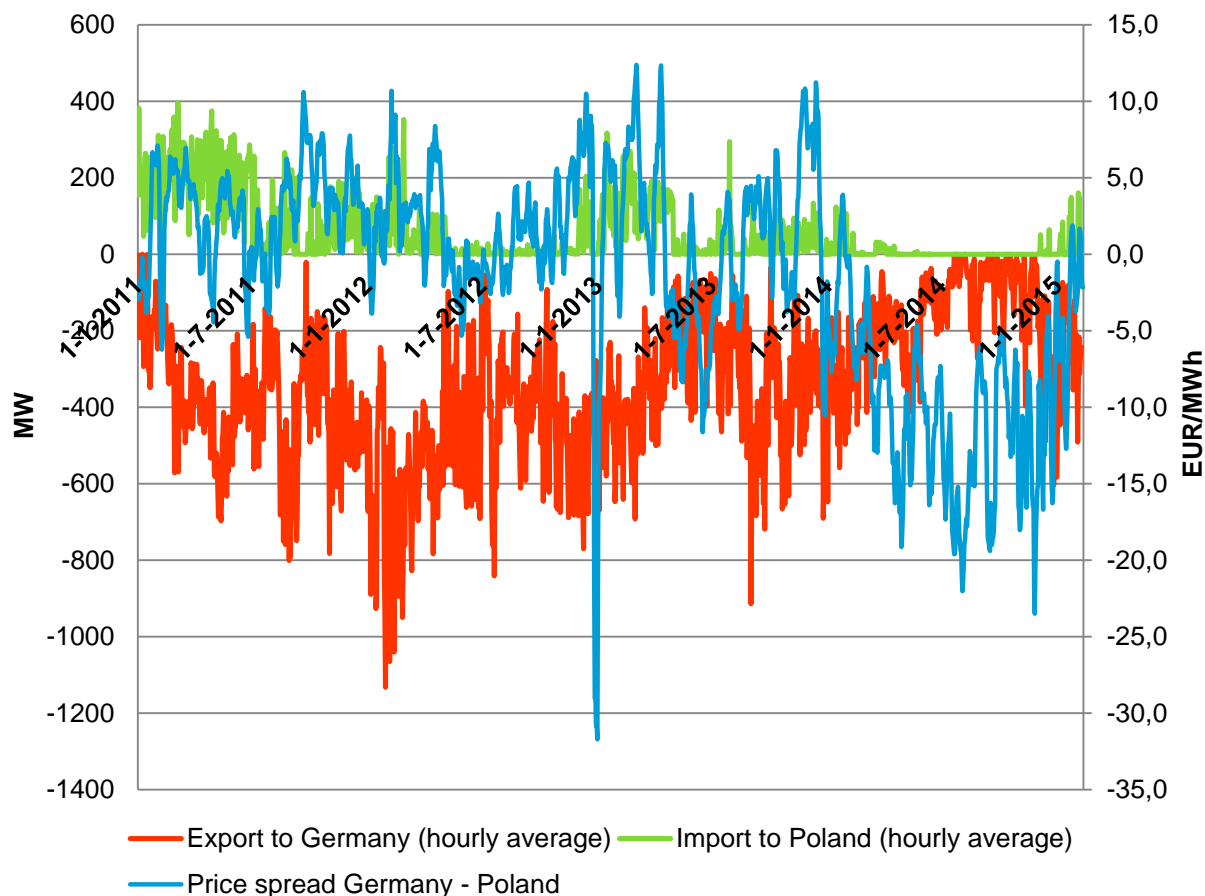


Cross-border trading – the Polish case



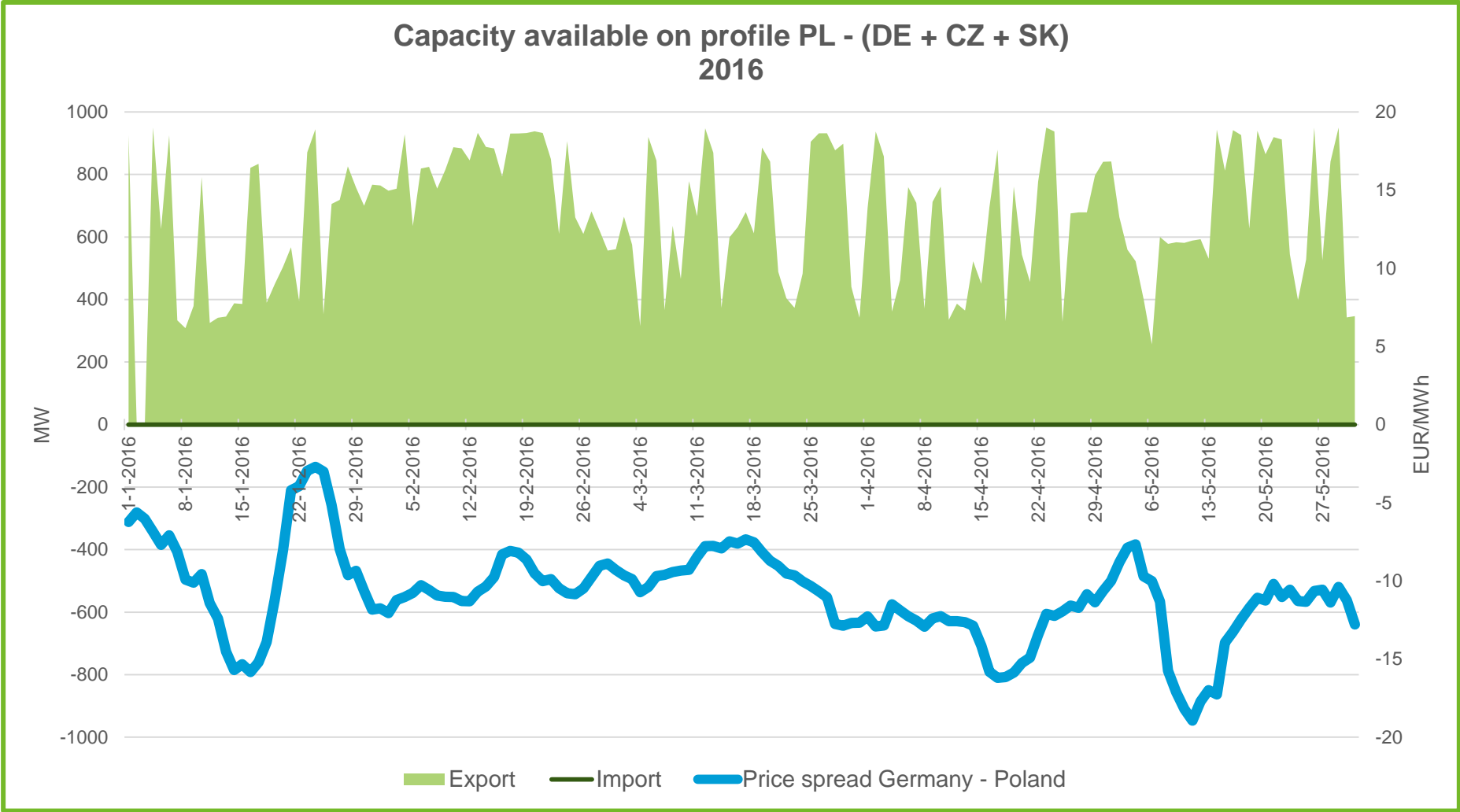
Cross-border trading with Germany

Electricity prices [EUR/MWh] and allocated PL-DE cross-border capacity [MW]



- **Power prices in Poland permanently higher** than in Germany since 2014
- **Operational reserve capacity fee** since 2014
- **No market coupling with implicit auctions before mid of 2018**
- **Physical Phase Shifters** to be installed on Polish-German border - it should allow **at least 500 MW import capacity**
- **New 1500 MW interconnector with Germany delayed by 2030**

Cross-border trading with Germany/ Czech Republic/ Slovakia in 2016





Thank you!

Marian Kilen