



General overview of the Polish energy sector

Polish-Japanese Cooperation in the Energy Sector - Smart Communities
29th November 2013

Polish Power System

Key figures 2012





Installed capacity: **38 GW**



Available capacity: **37.7 GW**



Maximum demand: **25.8 GW**



Gross electricity generation : **162 TWh**



Gross consumption: **159 TWh**

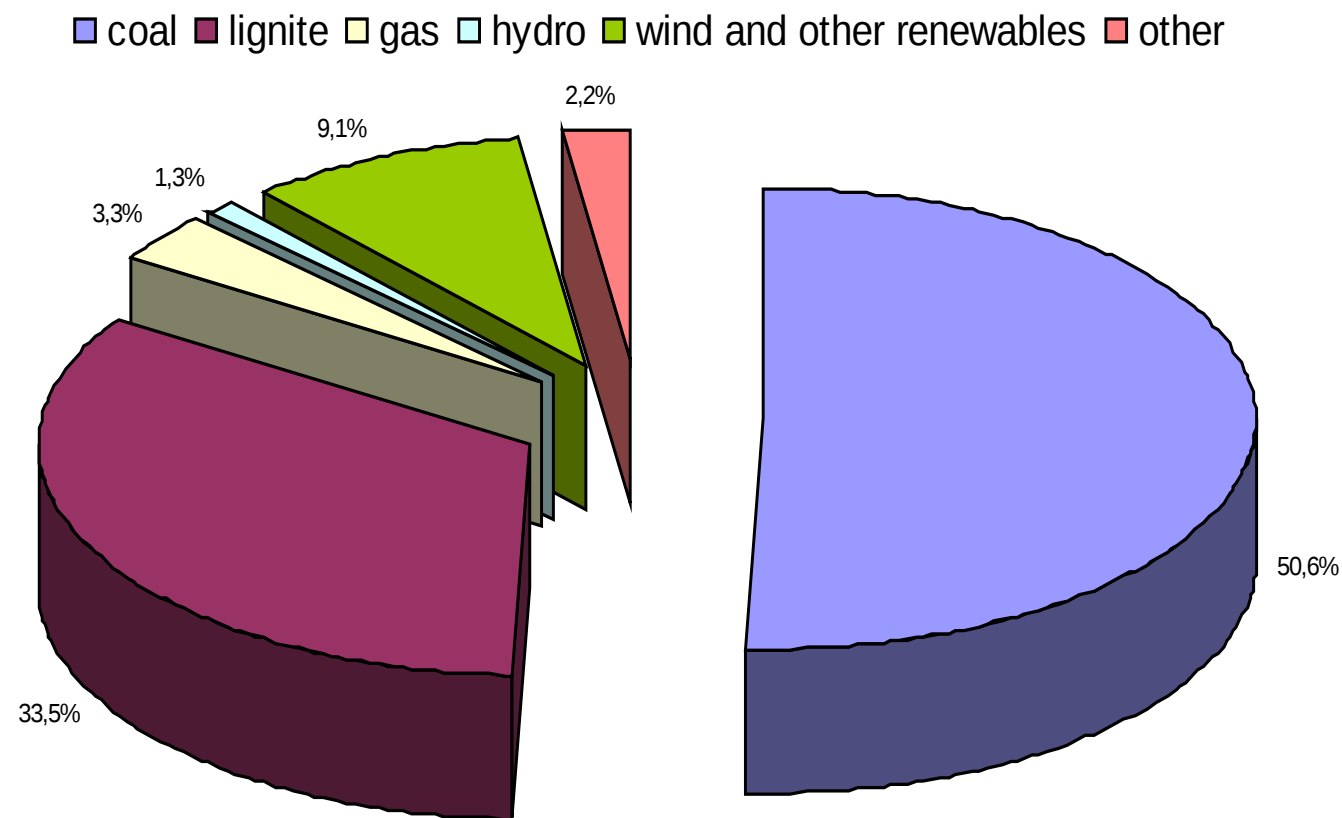


Length of transmission electric lines (750kV and 220 kV): **13 500 km**



Length of distribution electric lines (110 kV and low lines): **774 200 km**

Energy mix 2012 (electricity only)



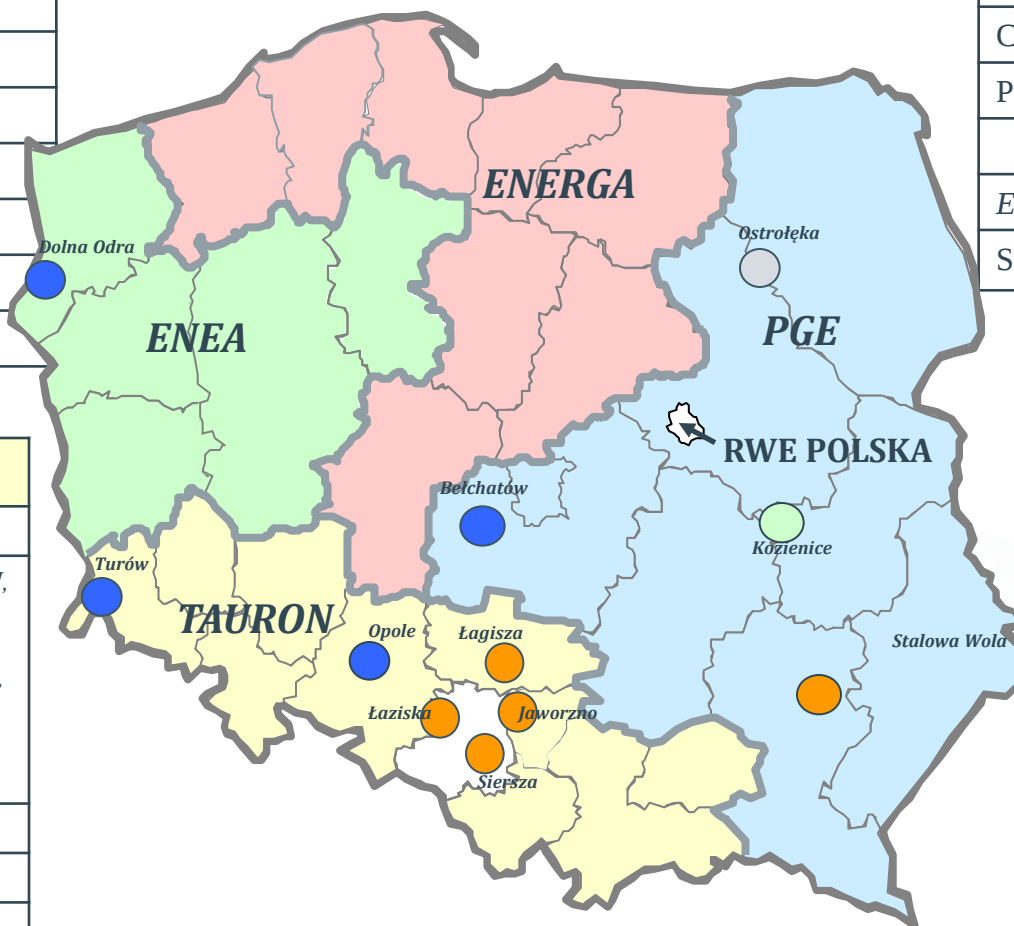
Consolidated energy groups (generation and supply)



MINISTRY
OF
ECONOMY

ENEA
Generation
<i>Kozienice</i>
Cap.: 2 880 MW
Production: 12,5 TWh
Supply
<i>ENEA</i>
Supply: 15,1 TWh

TAURON
Generation
<i>PKE (Łagisza, Jaworzno III, Siersza, Łaziska, Halemba, Blachownia, Ec Katowice, Ec Bielsko-Biala, PEC Katowice)</i> <i>Stalowa Wola, EC Tychy, EC Nowa</i>
Cap.: 5 572 MW
Production: 23,8 TWh
Supply
<i>TAURON</i>
Supply: 30,3 TWh

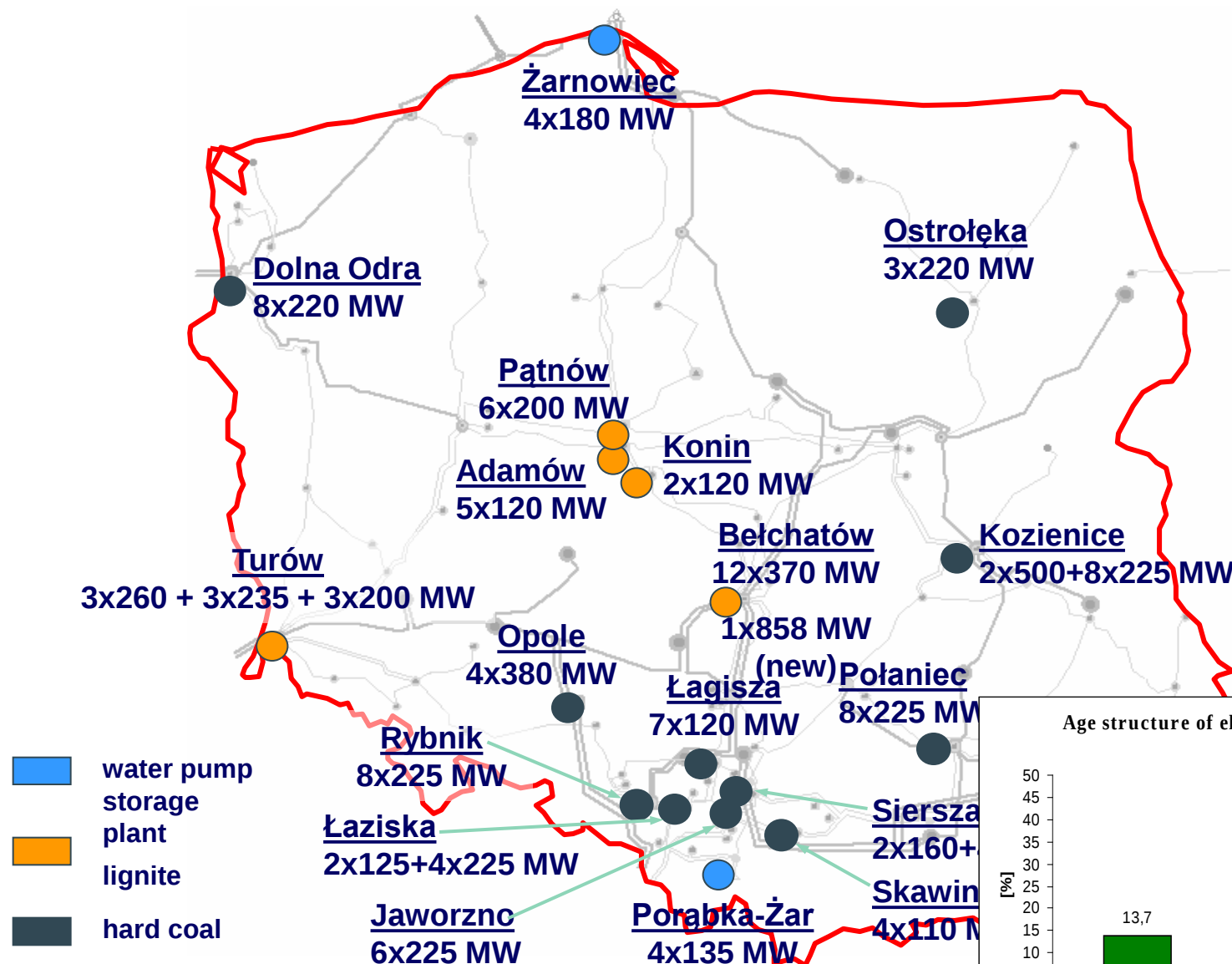


ENERGA
Generation
<i>Ostrołęka, EC Elbląg, EC Kalisz</i>
Cap.: 1 150 MW
Production: 4,6 TWh
Supply
<i>ENERGA</i>
Supply: 17,8 TWh

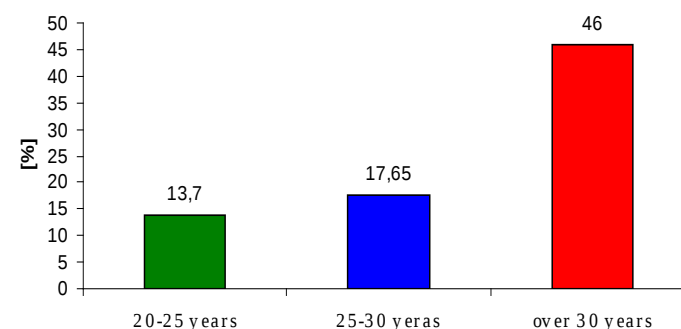
PGE
Generation
<i>GiEK SA (Belchatów, Turów, Dolna Odra, EC Rzeszów, EC Lublin-Wrotków, EC Gorzów, EC Bydgoszcz, EC Kielce, En. Zgierz)</i> <i>Opole</i>
Cap.: 12 144 MW
Production: 57,5 TWh
Supply
<i>PGE Obrót</i>
Supply: 29,5 TWh

**Privatized Power Plants: ZE PAK ,
Połaniec, Rybnik, Skawina**

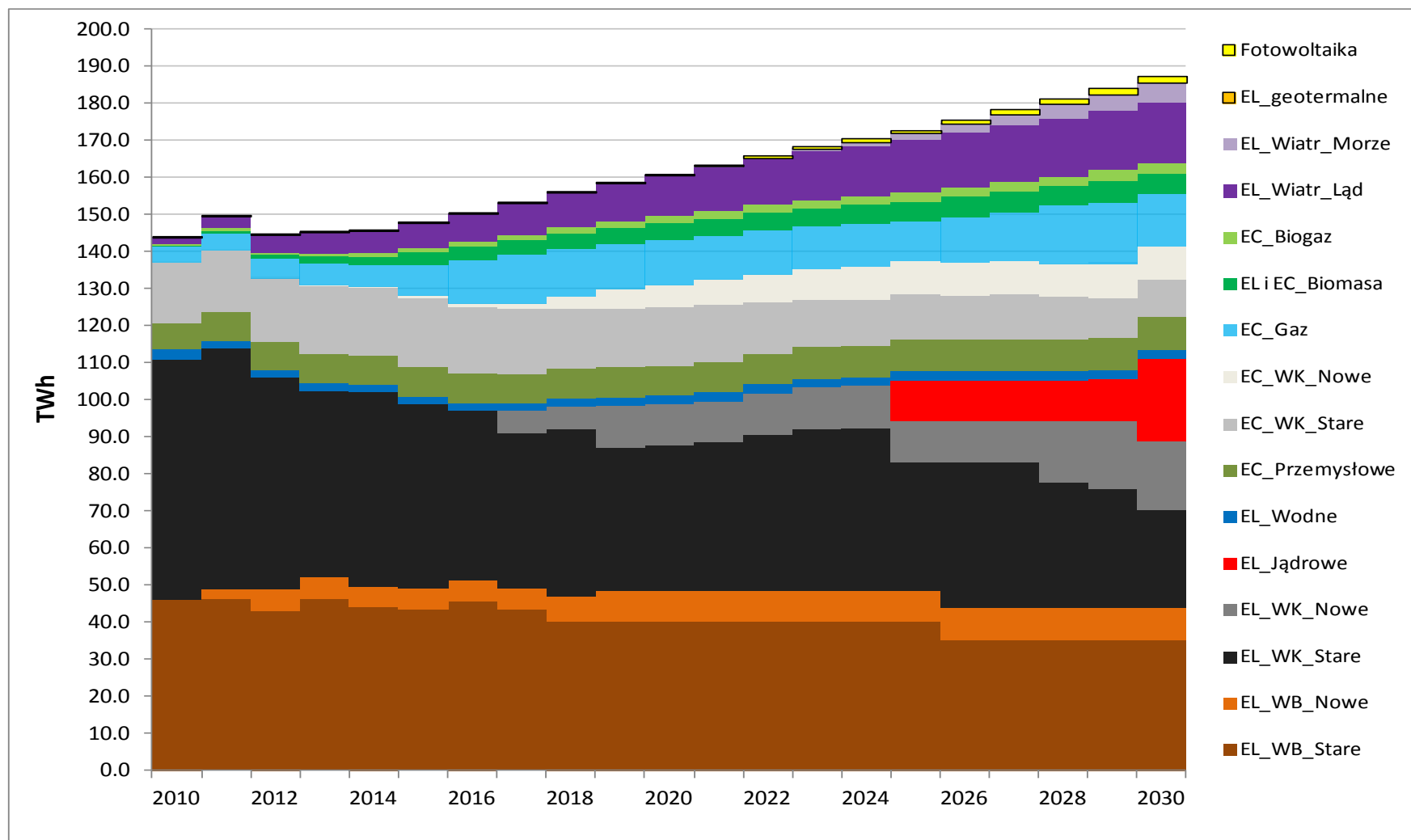
Major power plants in Poland



Age structure of electricity generation devices



Forecast net electricity production in Poland till 2030



Conclusions

- Polish energy sector is currently strongly dependent on coal (hard coal and lignite),
- We observe constant growth in energy generation from renewables (now 11% of electricity produced),
- Nuclear energy is to be a very important pillar of the Polish energy sector in future,
- Our main goal is to reduce emissions from the power sector without jeopardizing the country's energy security,
- Without any doubts there is a need to invest in development of new capacities, including those based on coal.

Thank you for your attention!

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