



Status of Coal-Fired Power Plants in Poland

2013 U.S.-Poland Energy Roundtable



Territory: 322 575 km²

Population: 38.5 mln

Capital city: Warsaw



Polish Power System

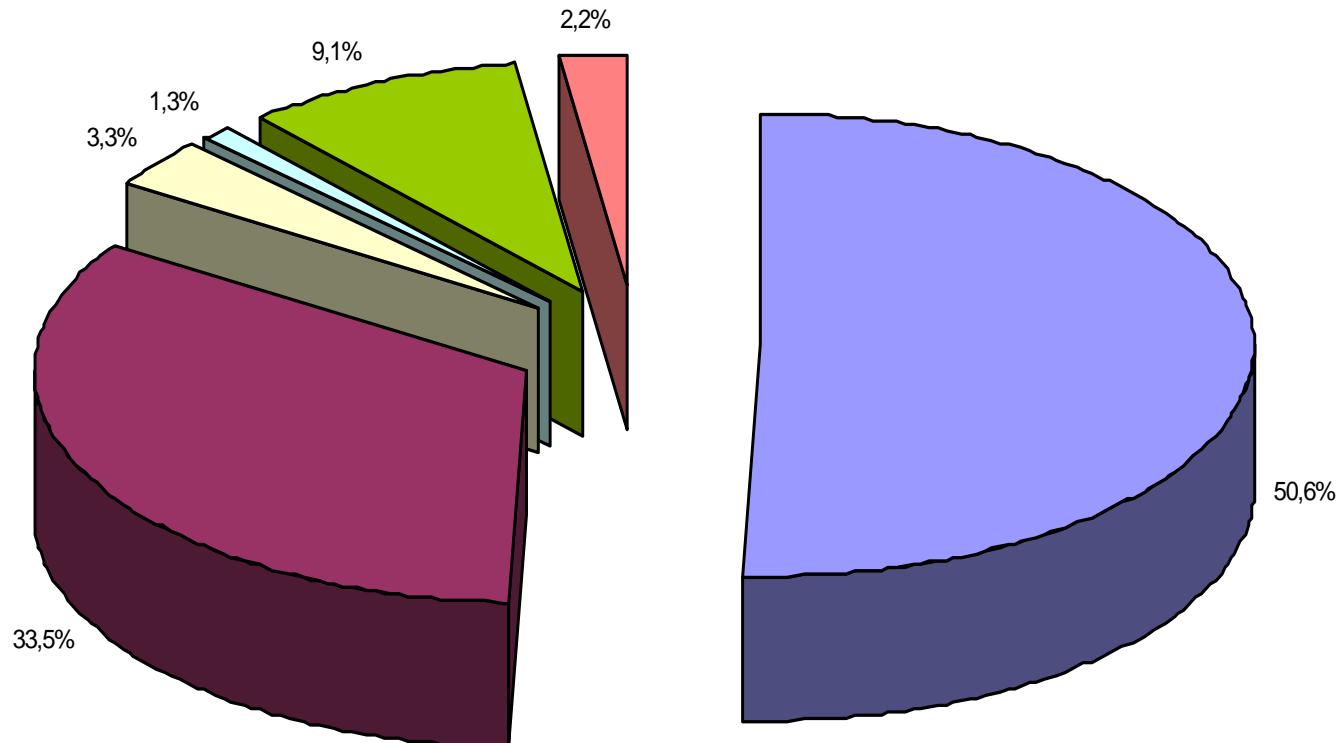
key figures 2012



-  **Installed capacity: 38 GW**
-  **Available capacity: 37.7 GW**
-  **Reliable capacity of domestic power stations: 28.5 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**

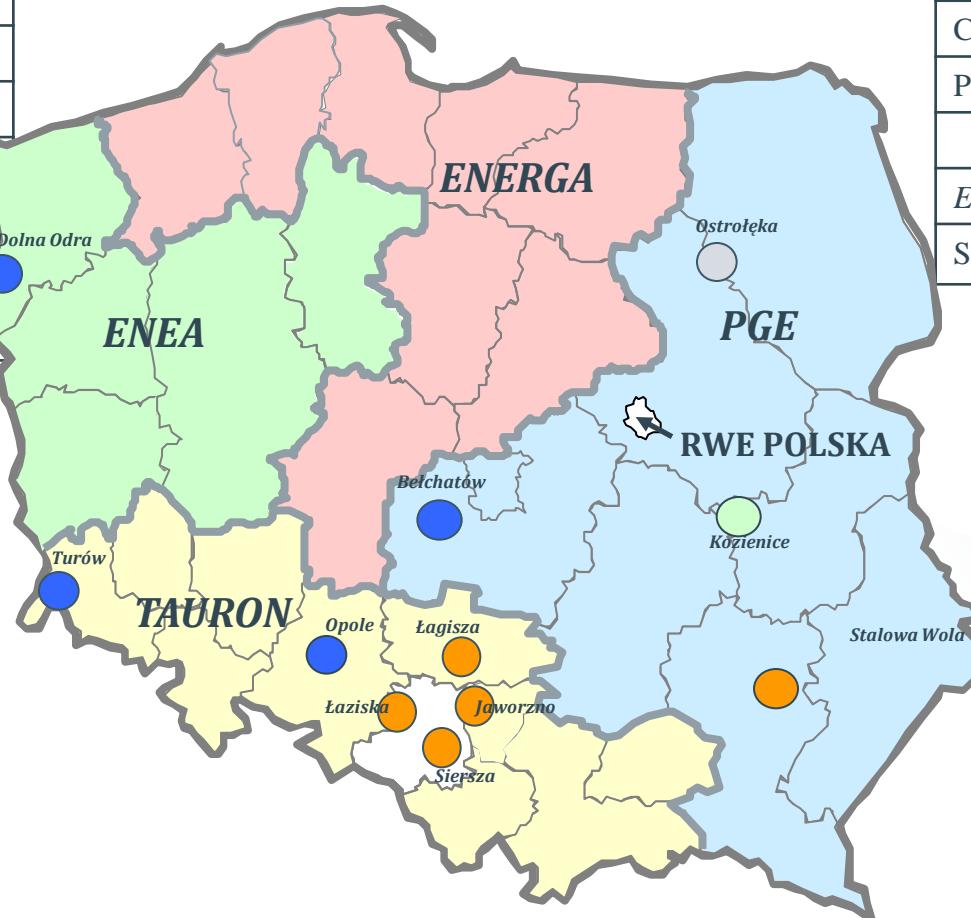
Energy mix 2012 (electricity only)

■ coal ■ lignite ■ gas ■ hydro ■ wind and other renewables ■ other



Consolidated energy groups (generation and supply)

ENEA
Generation
Koziennice
Cap.: 2 880 MW
Production: 12,5 TWh
Supply
ENEA
Supply: 15,1 TWh
TAURON
Generation
PKE (Łagisza, Jaworzno III, Siersza, Łaziska, Halemba, Blachownia, Ec Katowice, Ec Bielsko-Biała, PEC Katowice) Stalowa Wola, EC Tychy, EC Nowa
Cap.: 5 572 MW
Production: 23,8 TWh
Supply
TAURON
Supply: 30,3 TWh

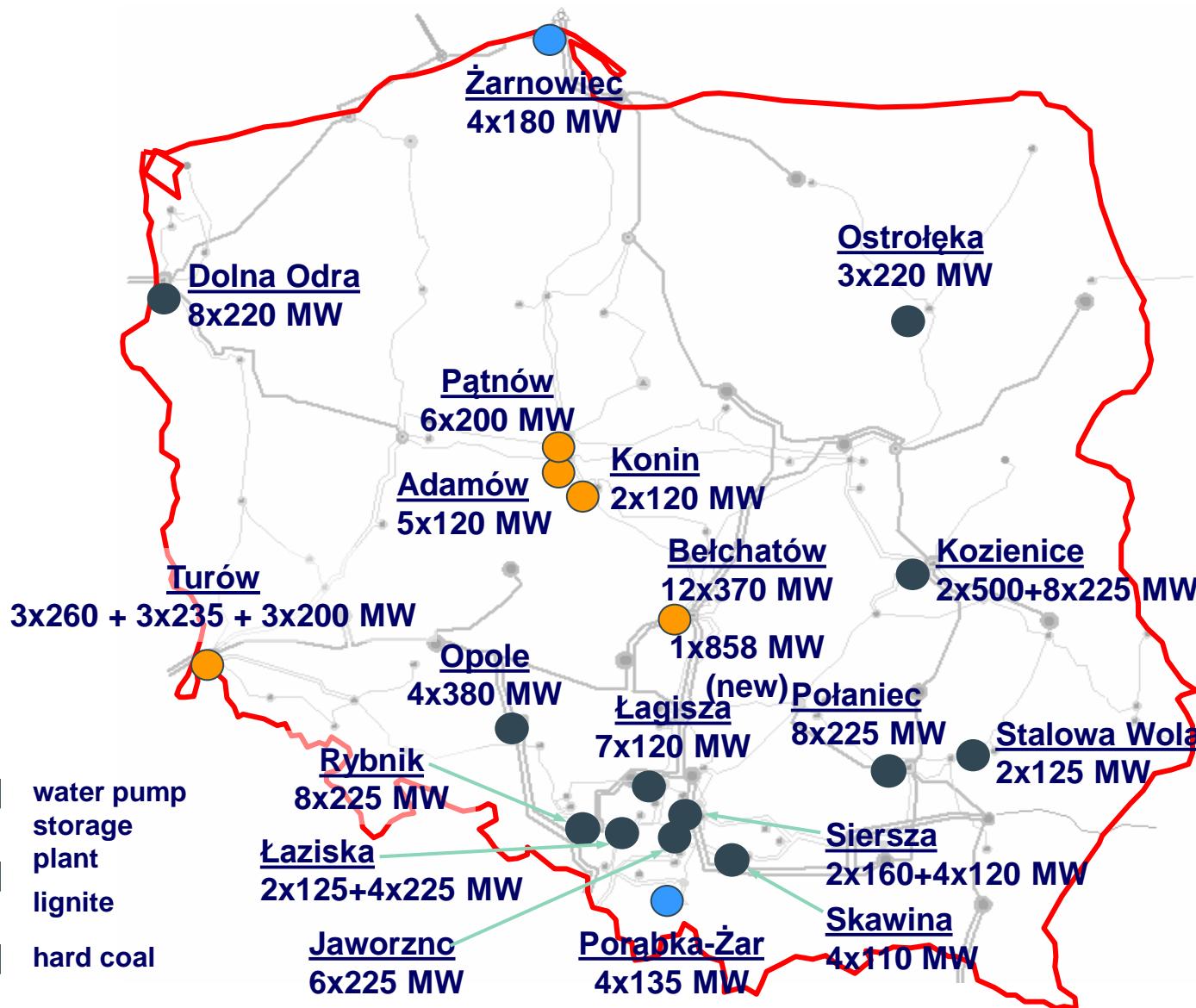


**Privatized Power Plants: ZE PAK ,
Połaniec, Rybnik, Skawina**

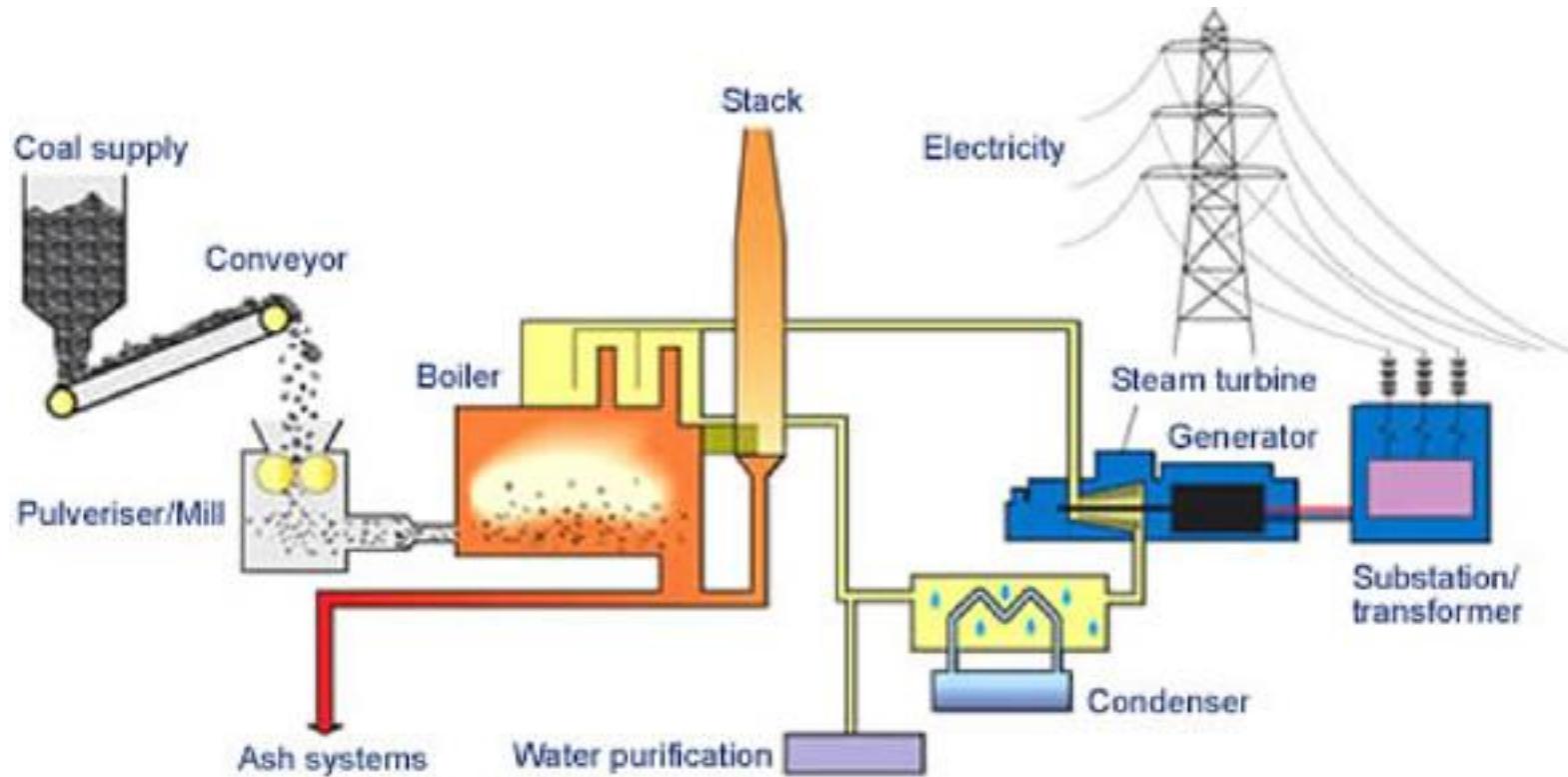
ENERGA
Generation
Ostrołęka, EC Elbląg, EC Kalisz
Cap.: 1 150 MW
Production: 4,6 TWh
Supply
ENERGA
Supply: 17,8 TWh
PGE
Generation
GiEK SA (Belchatów, Turów, Dolna Odra, EC Rzeszów, EC Lublin-Wrotków, EC Gorzów, EC Bydgoszcz, EC Kielce, En. Zgierz) Opole
Cap.: 12 144 MW
Production: 57,5 TWh
Supply
PGE Obrót
Supply: 29,5 TWh



Major power plants in Poland



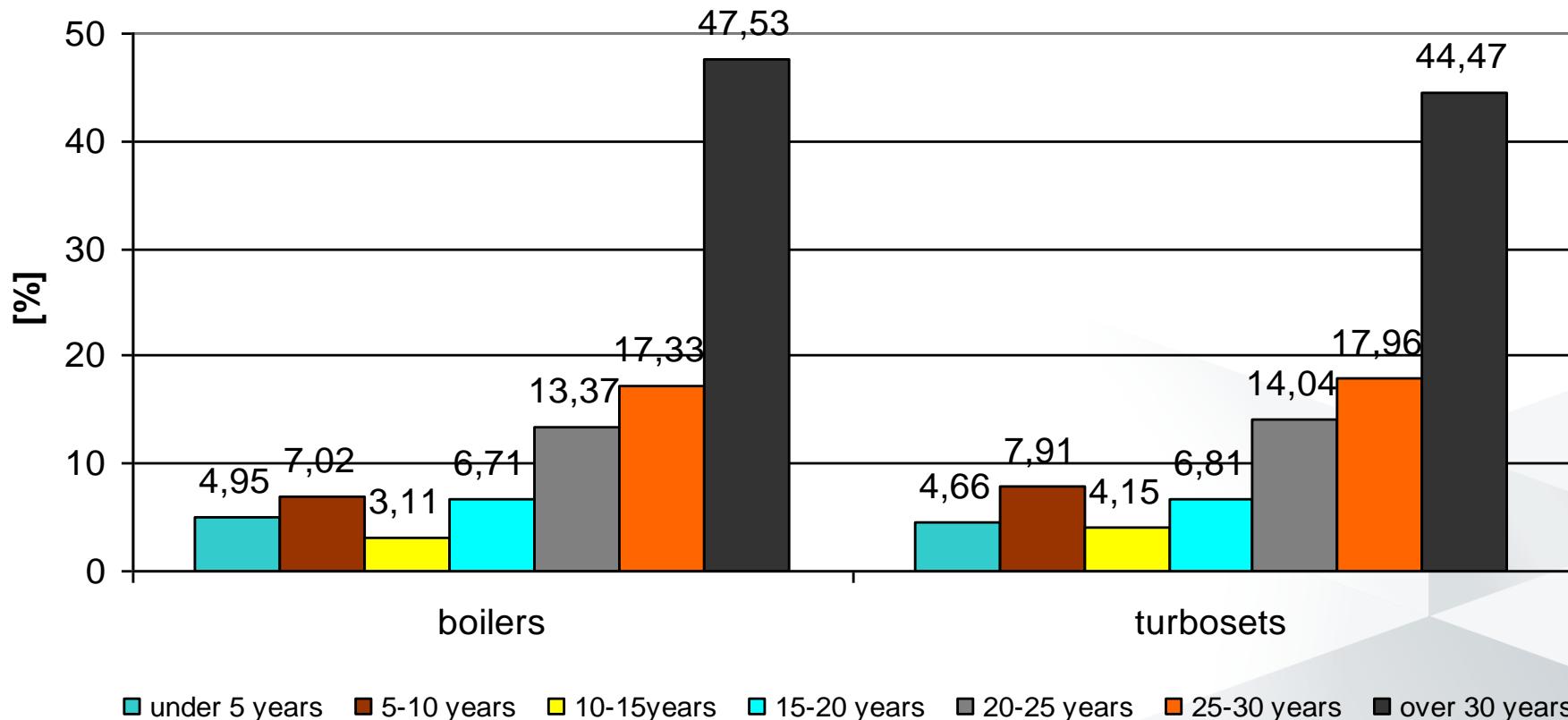
Generation of electricity



Electricity generation from hard coal and lignite

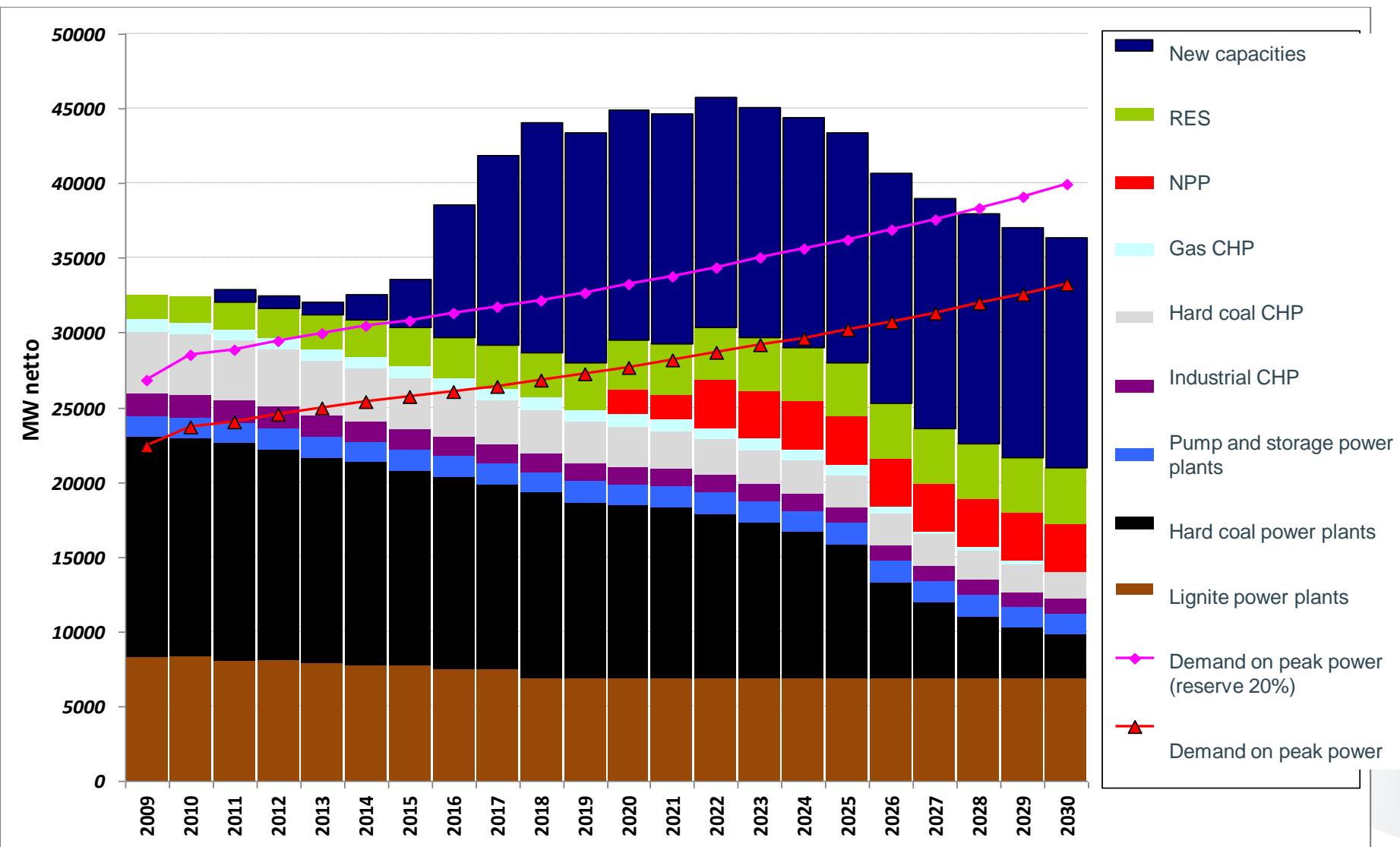
Electricity generation [TWh]						
Years	lata					
	2007	2008	2009	2010	2011	2012
0	1	2	3	4	5	6
Total generation	159.3	155.3	151.7	157.7	163.5	162
Hard coal	92.8	85.6	83.2	87.9	87.3	82
Lignite	51.0	53.2	50.2	48.7	52.5	54.2
Hard coal+lignite	143.8	138.8	133.4	136.6	139.8	136.2

Age structure of electricity generation devices



The development of generation capacity

(forecast reflects: modernization and decommission of „old” units,
increase of new capacities is based on connection conditions)



Losses and increase in power generation from coal based on estimates of energy producers

The installed capacity will decrease by 2015 by about 1100 MW.

By 2025 total decrease will reach a level of 2500 MW

At the same time it is planned to install 10 600 MW of new capacities till 2025

It is planned that total increase in installed capacity till 2025 will reach a level of 8100 MW



Thank you for your attention

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