

Security of Energy Supplies

EU-Russia Oil & Gas Trading



DR. JAROSŁAW ĆWIEK-KARPOWICZ
POLISH INSTITUTE OF INTERNATIONAL AFFAIRS (PISM)

Natural Gas

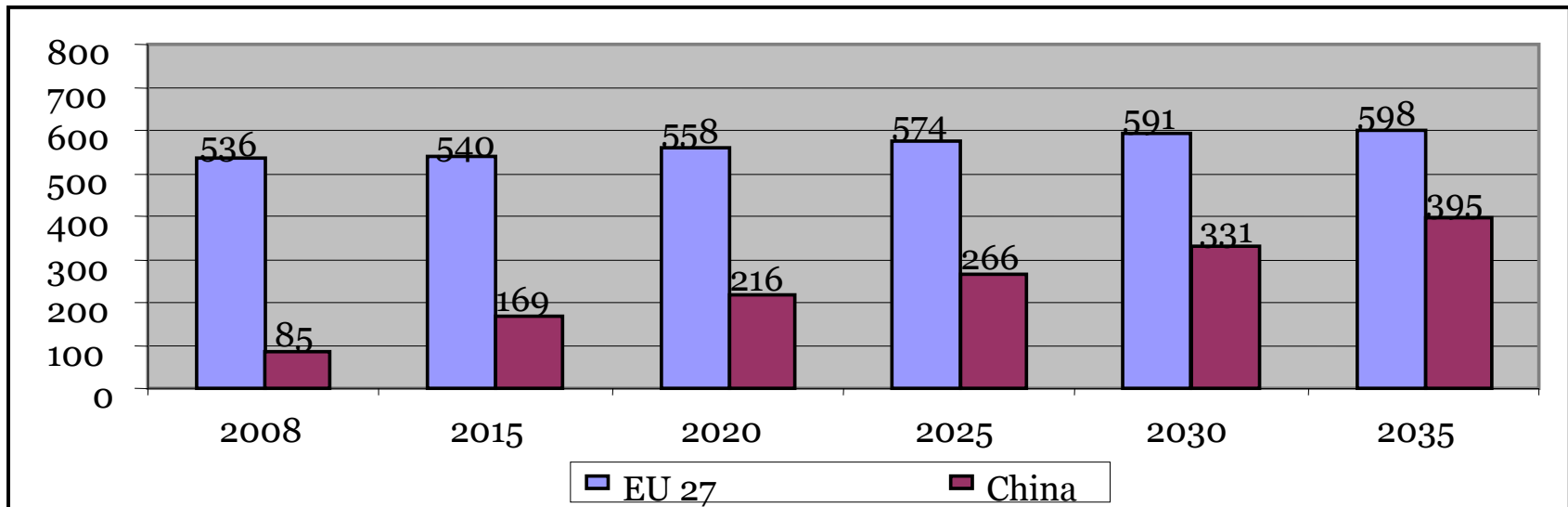


EU gas market: many advantages for exporters

- 1st gas importer and the 2nd gas consumer on the world
- Growing dependence on the external gas supplying (65% and more)
- High average gas prices

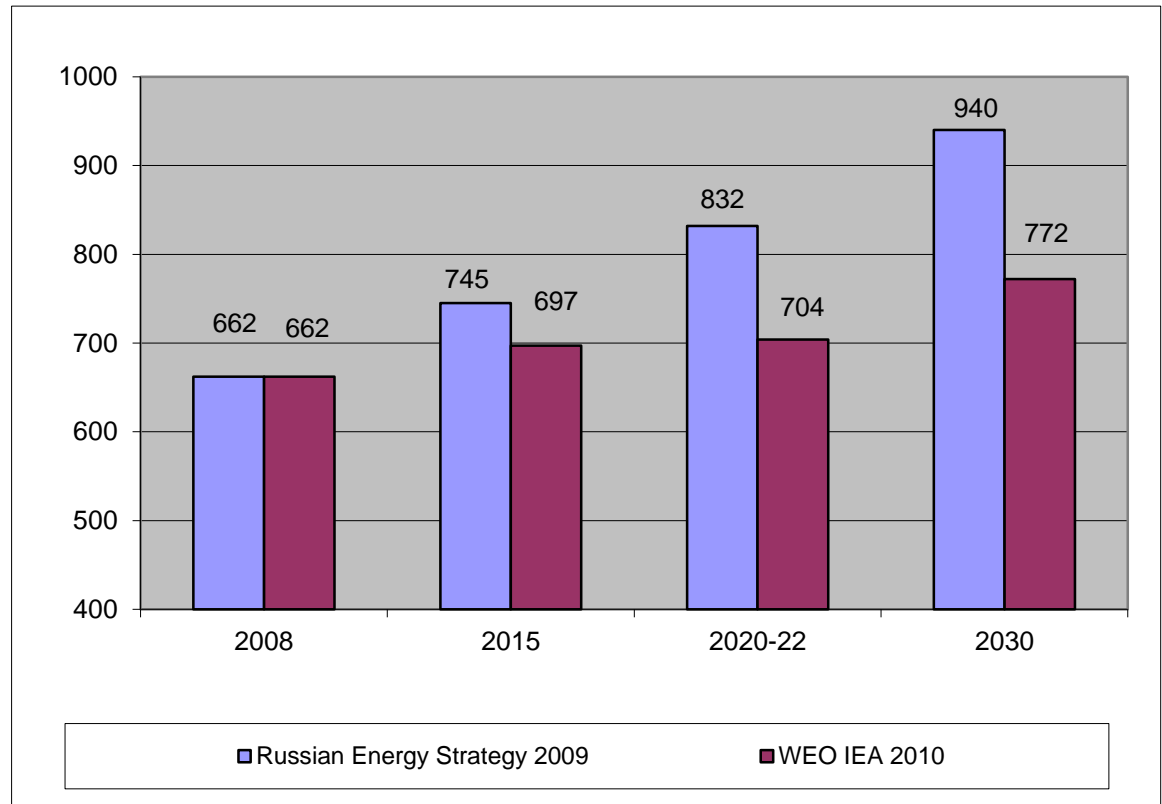
	Natural gas demand	Bcm
1	United Kingdom	94
2	Germany	81
3	Italy	76
4	France	47
5	Netherlands	44
6	Spain	34
7	Belgium	19
8	Poland	15
9	Romania	13
10	Austria	10

Forecast of the natural gas demanding: EU and China



Is Russia a predictable gas supplier?

- + The biggest global proven reserves of conventional gas (44 000 bcm)
- + Longest pipeline system at the world (158 200 km)
- + Huge internal market (ap. 400 bcm /year)



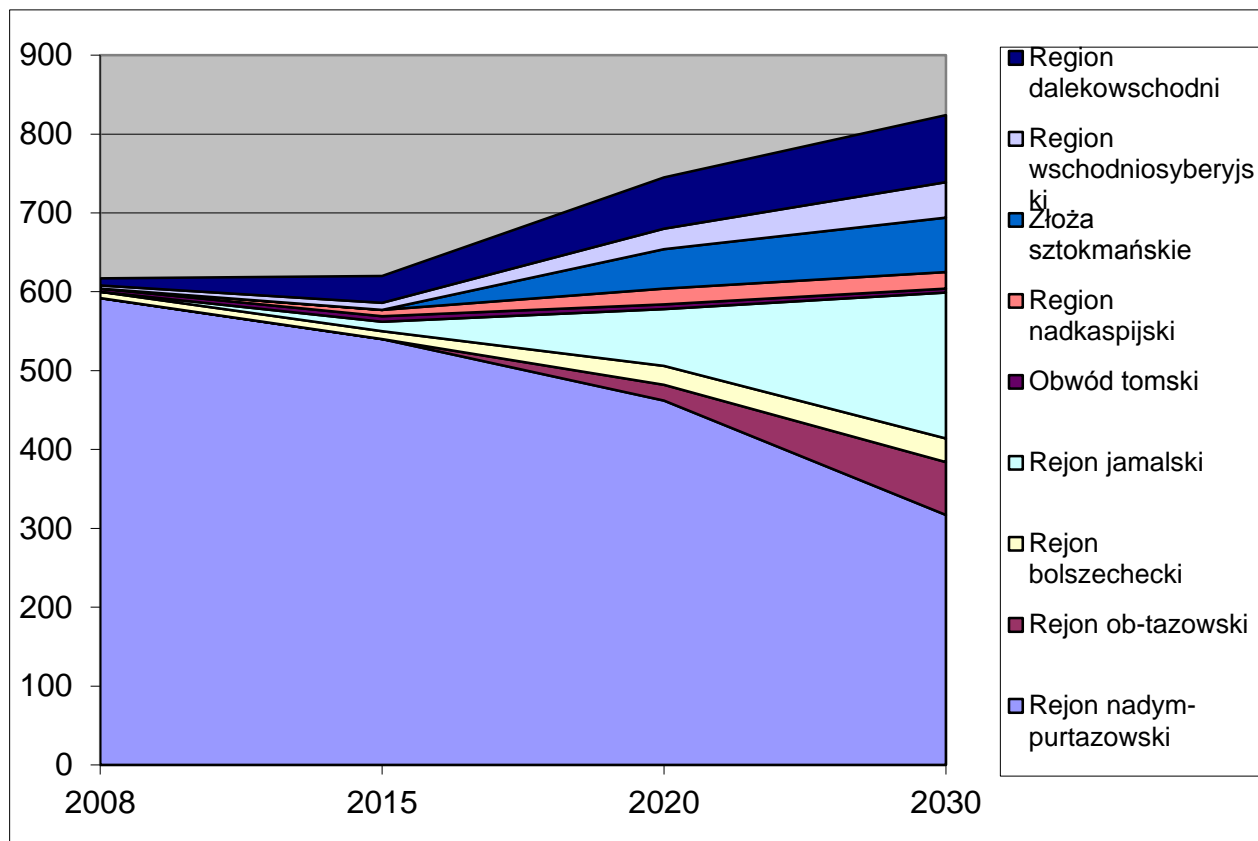
Is Russia a predictable gas supplier?

- Postponed investment of Shtokman project

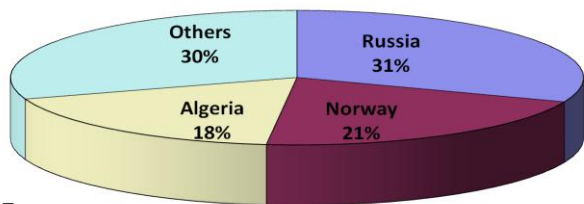
- 30 bln USD per year for keeping high level of production

- Decrease of Gazprom's capitalisation (from \$350 to \$100 bln, 2008-2013)

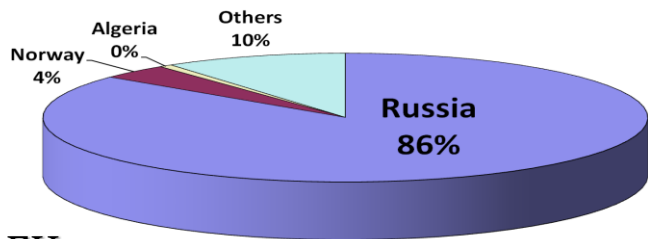
- Antitrust investigation against Gazprom



Different price of Russian gas in Europe

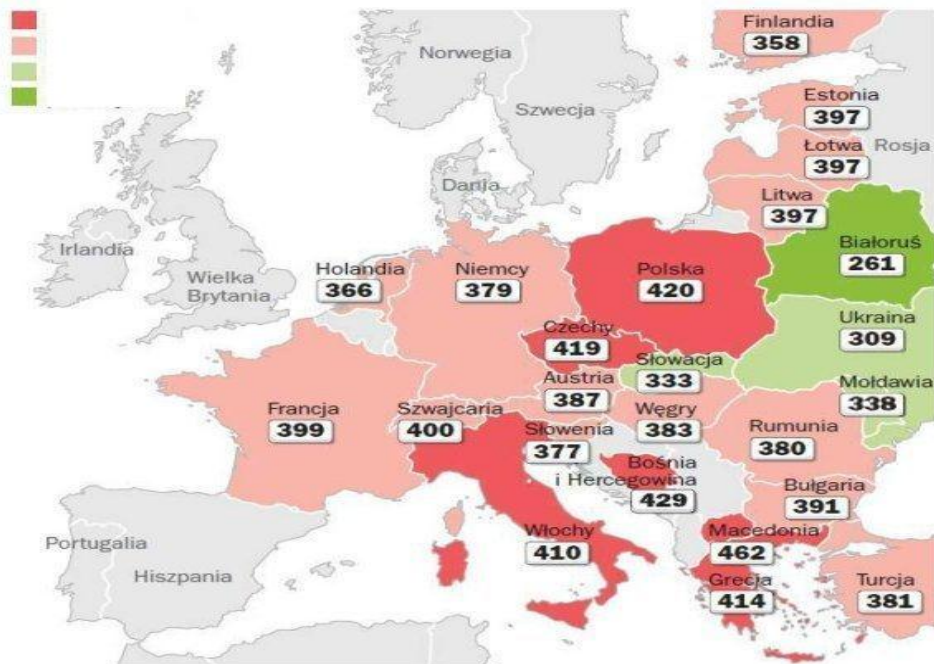


EU 15



EU 10

Over 400
350-400
300-349
Less than 300

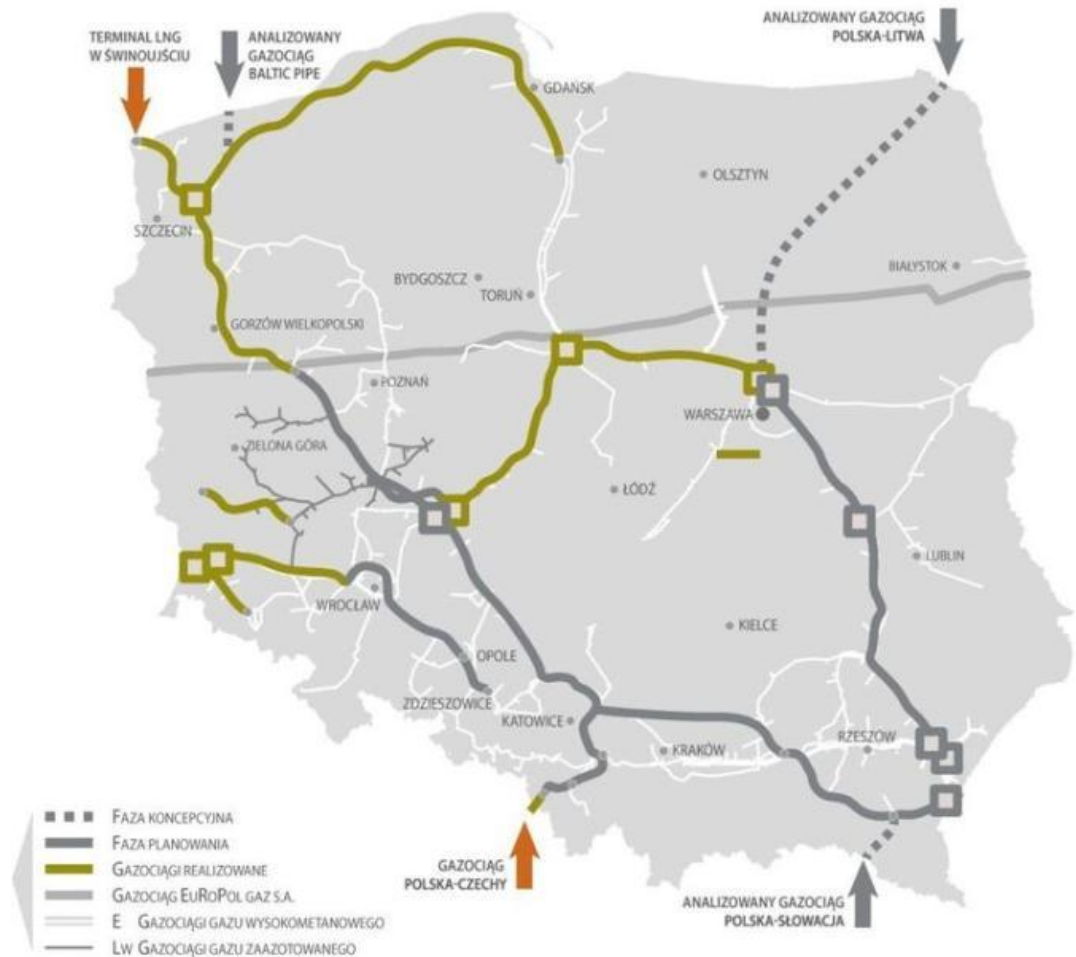


© GAZETA WYBORCZA

Russia's gas price for all EU countries above the spot price since 2009 (with a few exceptions in January 2012)

Poland's security of external gas supplies

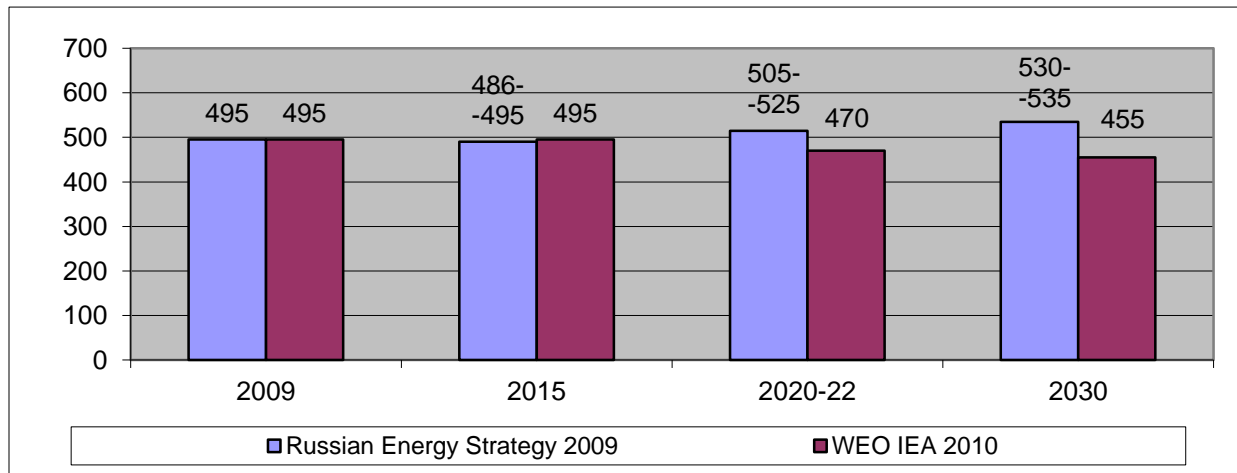
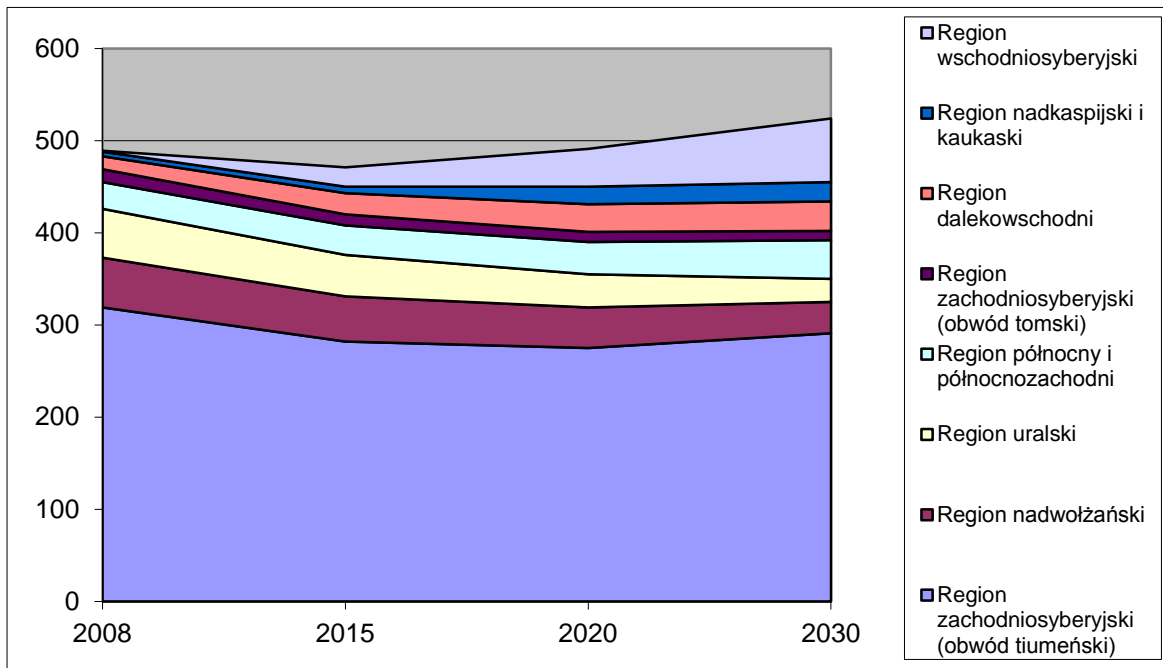
- ✓ Świnoujście LNG terminal: first in CEE and Baltic Sea regions
- ✓ Operational since July/December 2014
- ✓ 5 bcm capacity (max 7,5 bcm)
- ✓ PGNiG-Qatargas contract for 1,4 bln per year (2014-2020)
- ✓ EU financial support in 40%



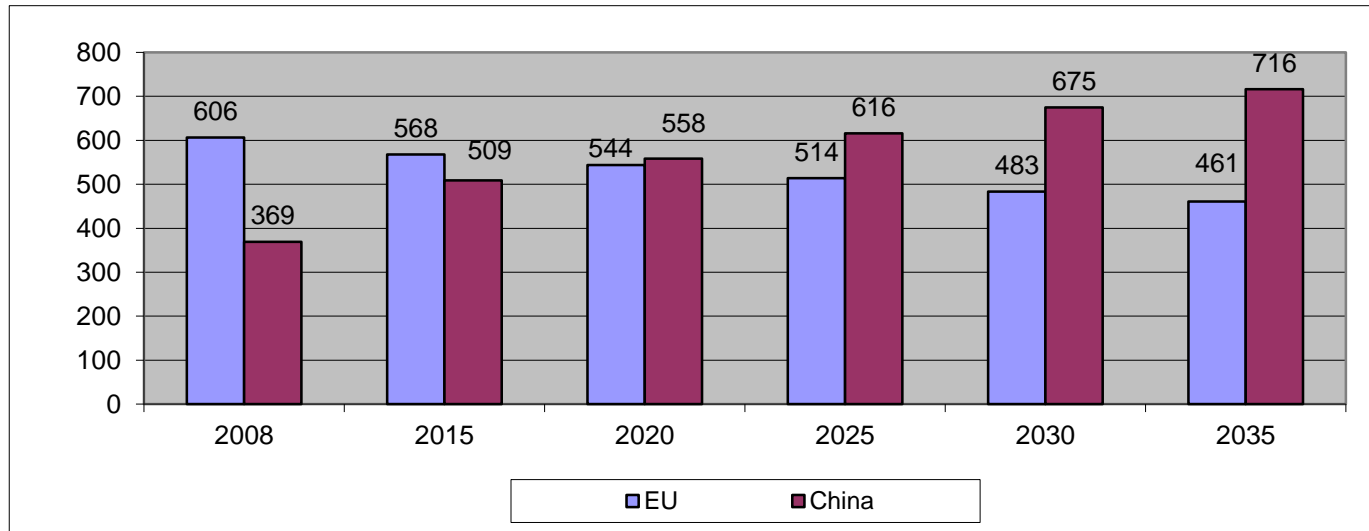
Crude Oil



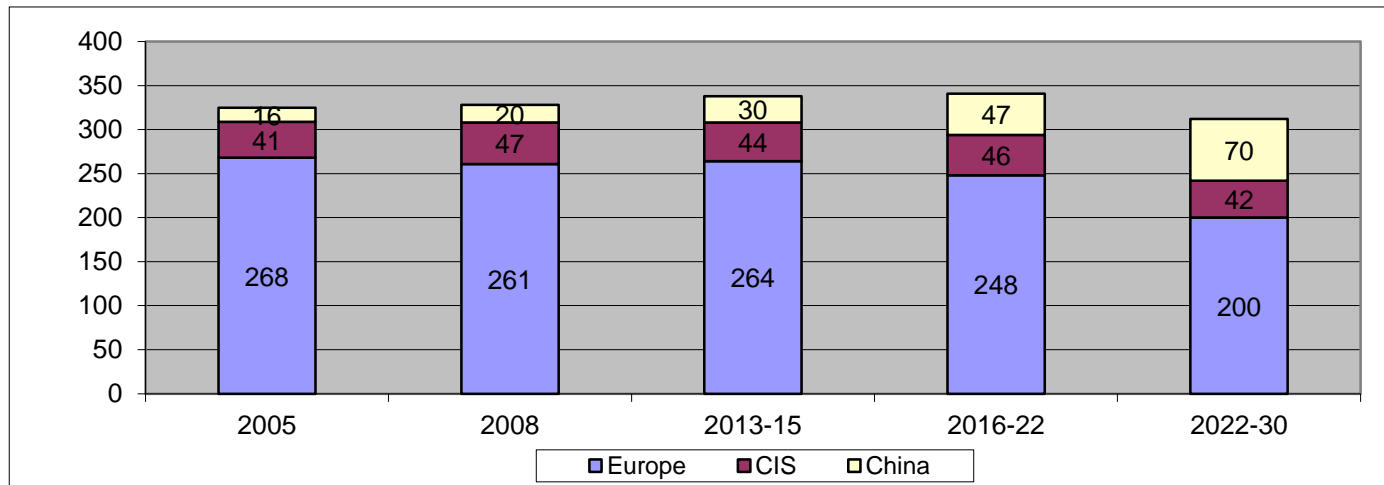
Crude oil production in Russia



Crude oil demand in the EU

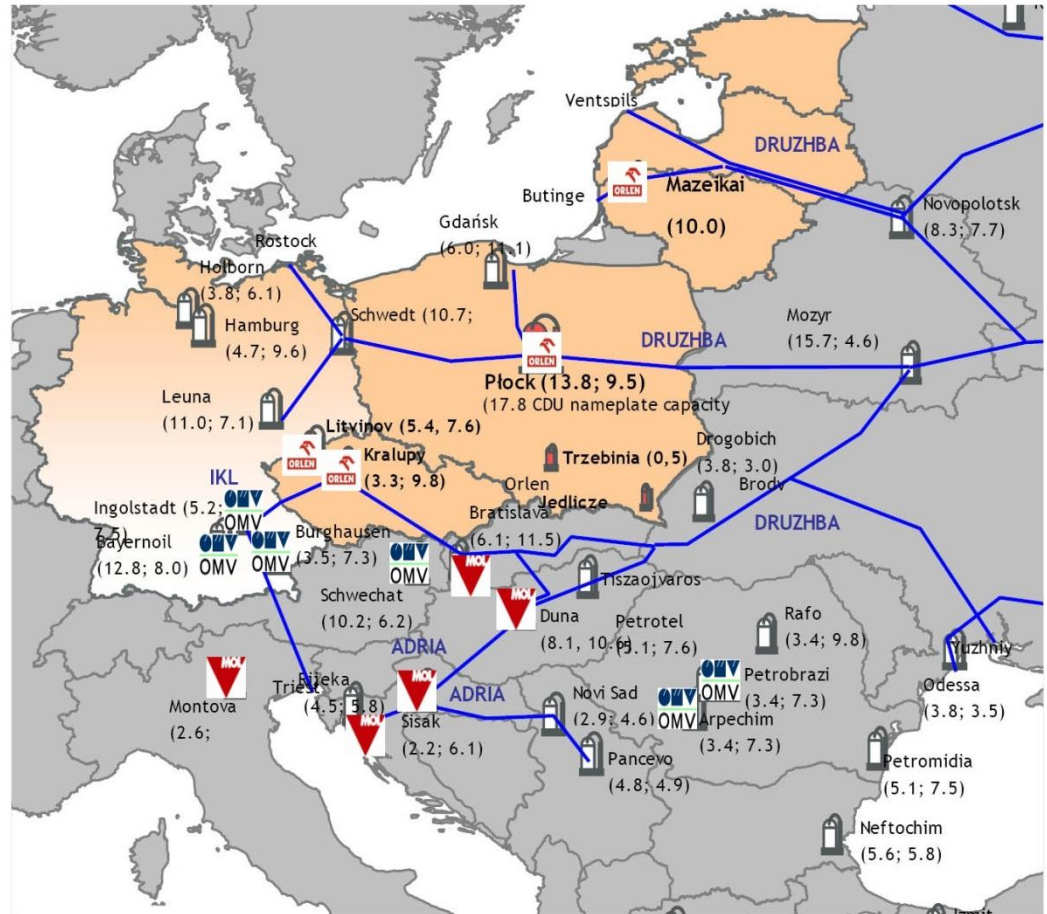


Russian crude oil supplies to Europe & Asia



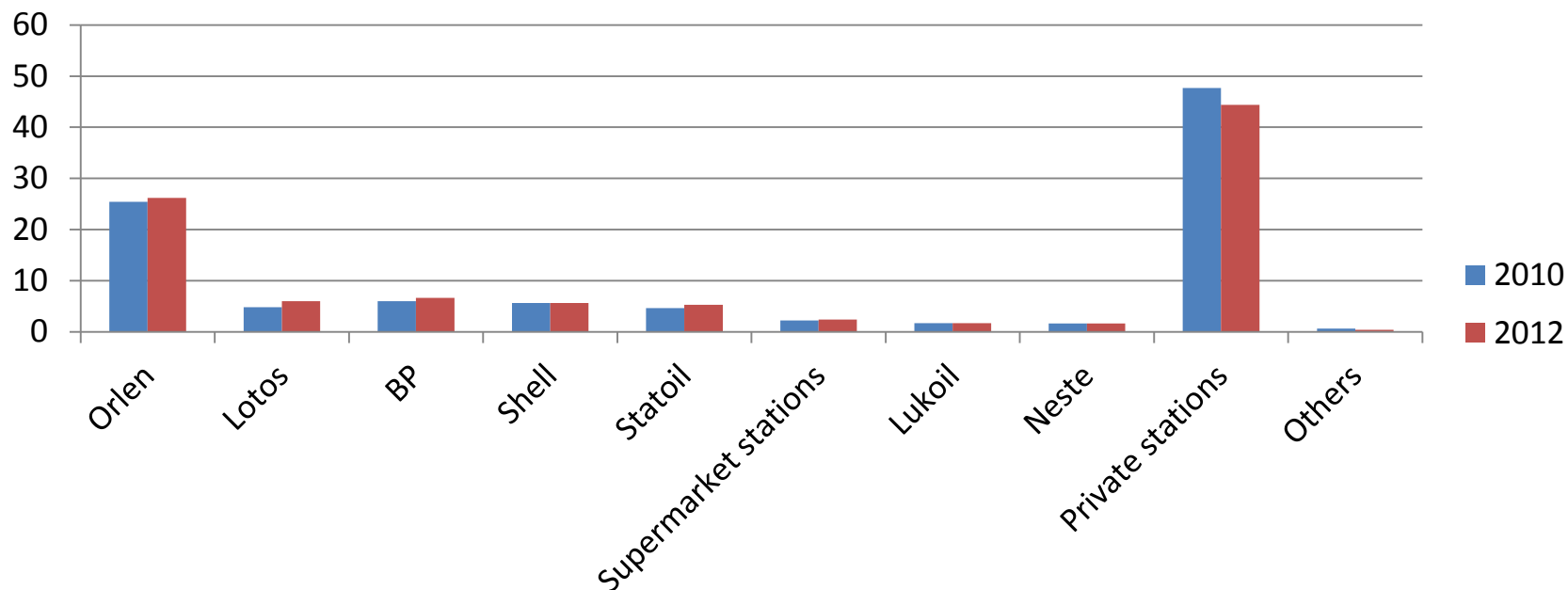
Poland's Crude Oil & Refinery Products Market

- Plock (Orlen), Gdansk (Lotos) and 5 small refineries (24 mln t/y)
- Oil terminals in:
Gdansk (34 mln t/y)
Gdynia (3,5 mln t)
Szczecin-Swinoujscie (1,5 mln t)
- 22 storages (2 mln t)
- Orlen expansion in Czech Rep. (refineries in Kralupy and Litvinov); Lithuania (Mozejki)



Poland's retail oil market

- 80-85% of crude oil in the long-term contracts (2-3 years)
- First direct contracts with suppliers (Rosneft) not with traders
- Most of the crude oil imported to Poland via Druzhba pipeline, but oil terminal in Gdansk may take all of them (back-up)
- About 7 000 filling stations, increasing share of NOCs
- Imports of diesel (9-18%) and LPG (70-80%)



Thank you for attention!



DR JAROSŁAW ĆWIEK-KARPOWICZ
CWIEK-KARPOWICZ@PISM.PL

**POLSKI INSTYTUT SPRAW
MIĘDZYNARODOWYCH (PISM)**
UL. WARECKA 1A, 00-950 WARSZAWA
TEL. 22 556 80 00, FAX 22 556 80 99
WWW.PISM.PL