



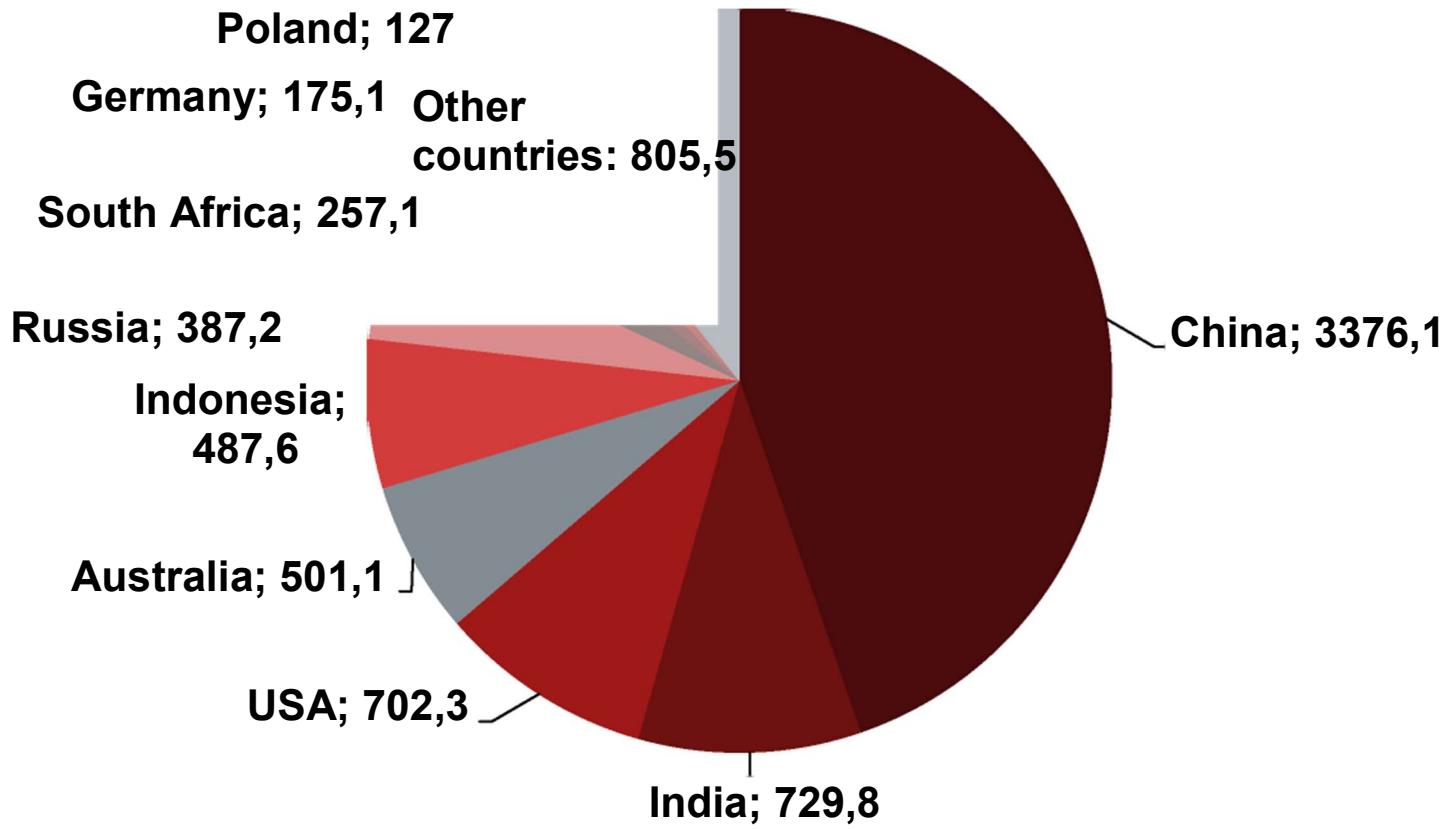
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Implementation of climate policy as a challenge for transformation and energy security and competitiveness of the European Union



Social Pre_COP24; Brussels

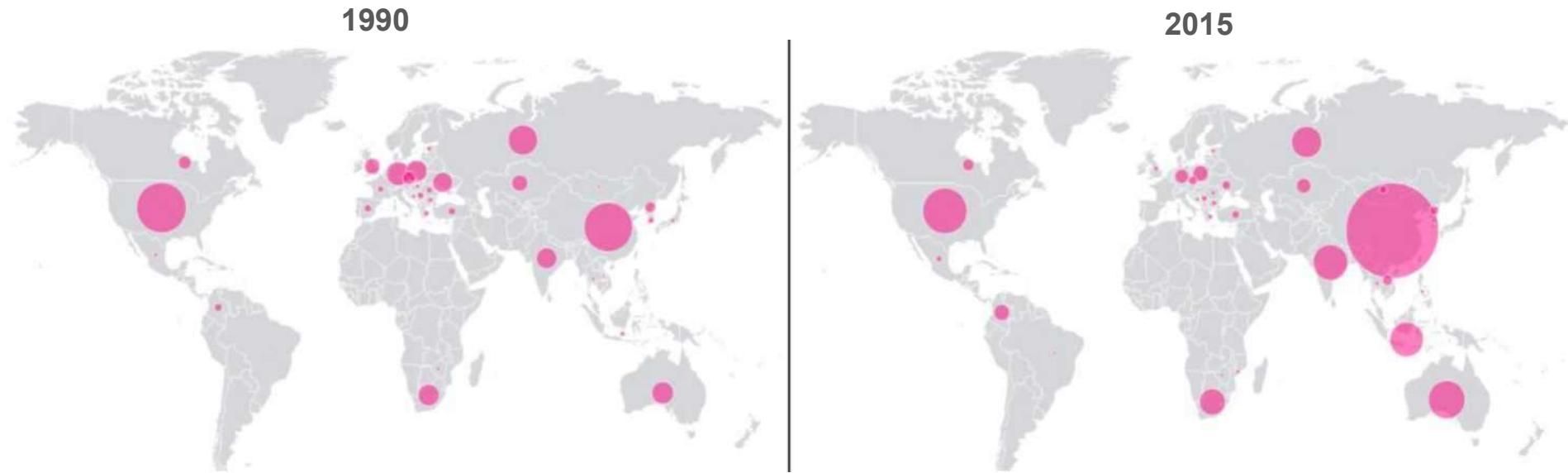
Coal production in 2017 in individual countries [Mt]



Source: Euracoal

Total global coal consumption in 2017 amounted to 7.55 billion tons, of which China is responsible for almost 45% of coal production, and Germany and Poland in total for 4% of total production.

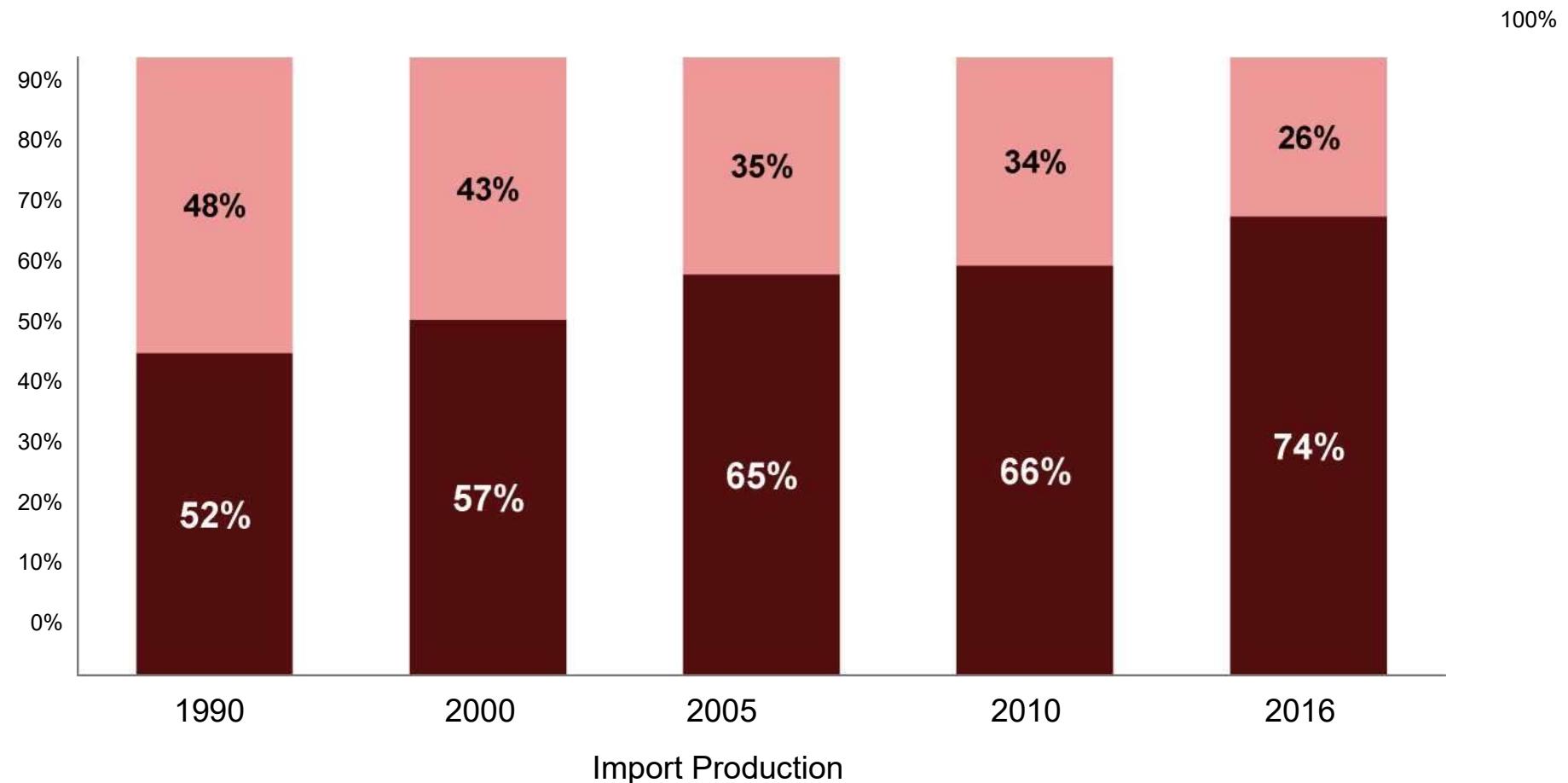
Comparison of coal production sites in the world in 1990 and 2015.



Source: International Energy Agency

The climate policy pursued does not yield results in the form of decarbonisation, but only causes the transfer of coal production outside the European Union

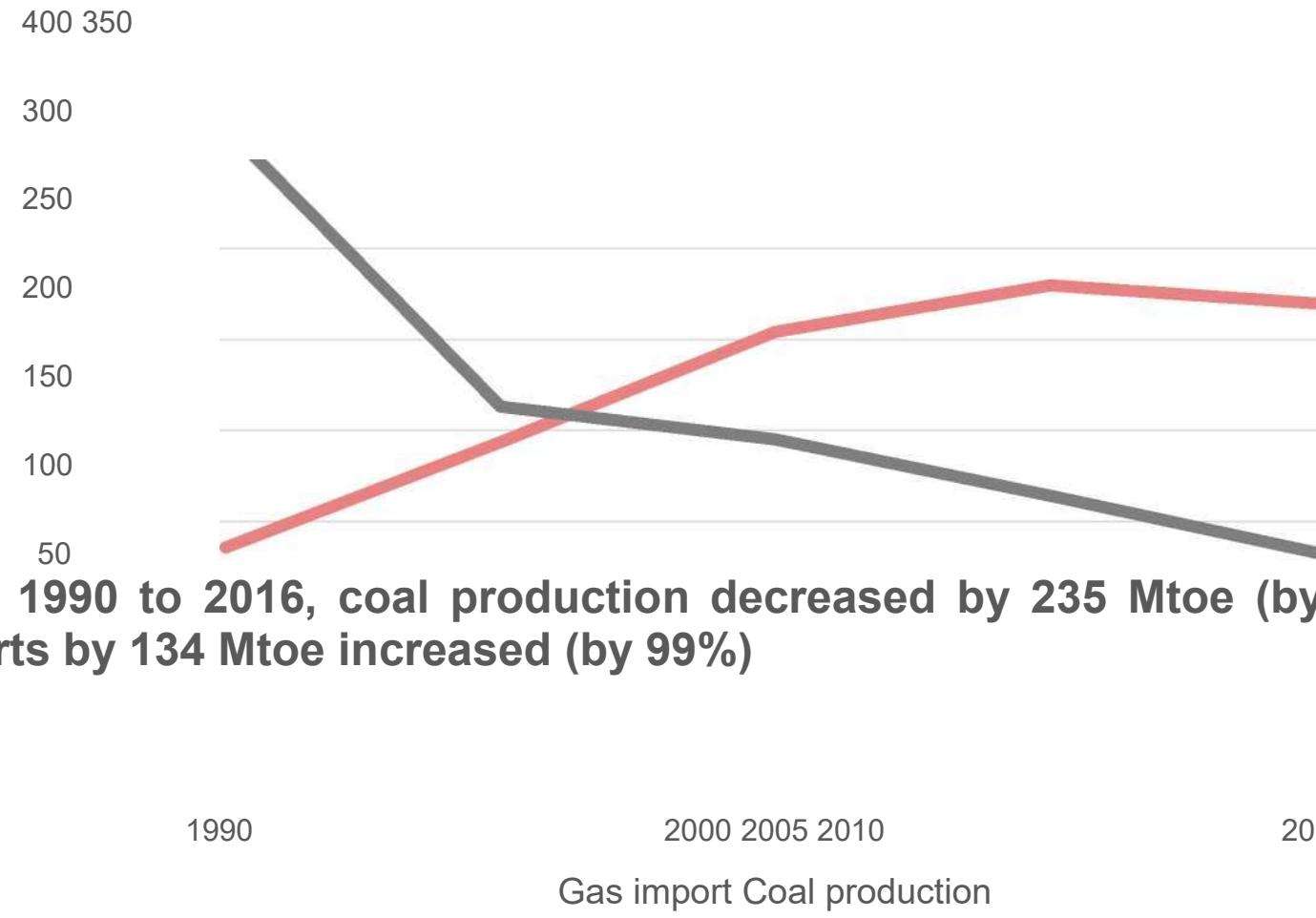
Percentage of dependency on imports and production of fossil fuels in the European Union in years 1990 - 2016



Source: Eurostat

The European Union's dependency on fossil fuels imports (coal, oil, gas) increased from 52% in 1990 to 74% in 2016.

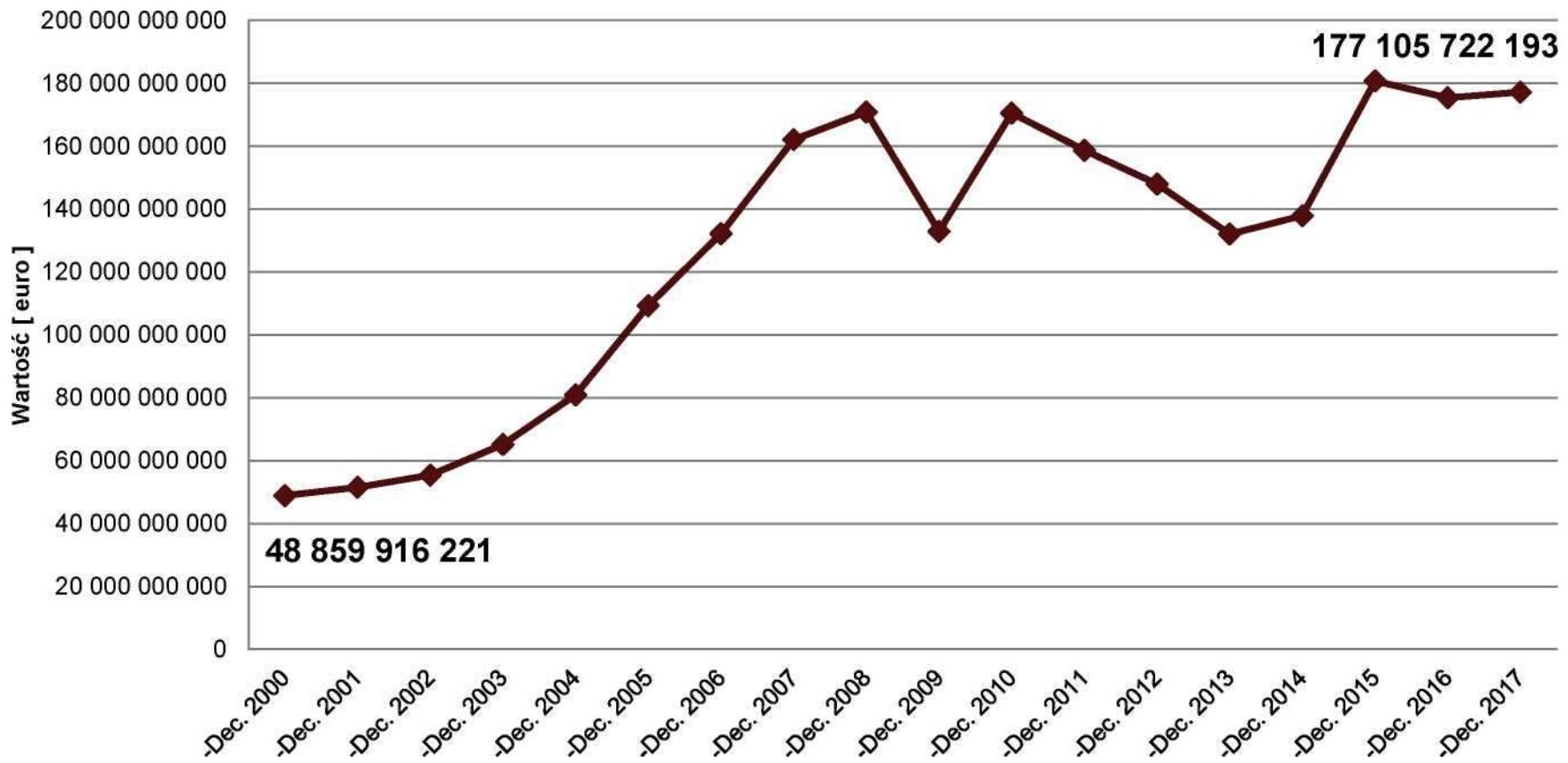
The most important changes in the structure of production/fuel imports in the European Union since 1990.



From 1990 to 2016, coal production decreased by 235 Mtoe (by 64%), and gas imports by 134 Mtoe increased (by 99%)

Source: Eurostat

Import-export balance to the European Union from China in the years 2000-2017



Source: Eurostat

A negative trade balance means relocation of production and jobs outside the European Union.

The reduction of coal consumption from the state's own resources results in its import from outside the European Union

Coal imports by European Union countries in 2017

The volume of imports corresponds to:

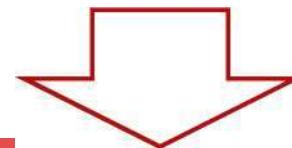
The number of mines:

The number of mine employees:

The total number of lost jobs:

The annual value of lost jobs:

173 million tons



Ok. 58

approx. 175,000.

approx. 700,000.

approx. EUR 12.6 billion

The EU is the fourth largest coal importer in the world (after China, India and Japan) in terms of quantity

For a medium mine producing approx. 3 million tons of coal per year

Average employment in the mine approx. 3,000 employees (the same with an average capacity of approx. 1 000 t/employee)

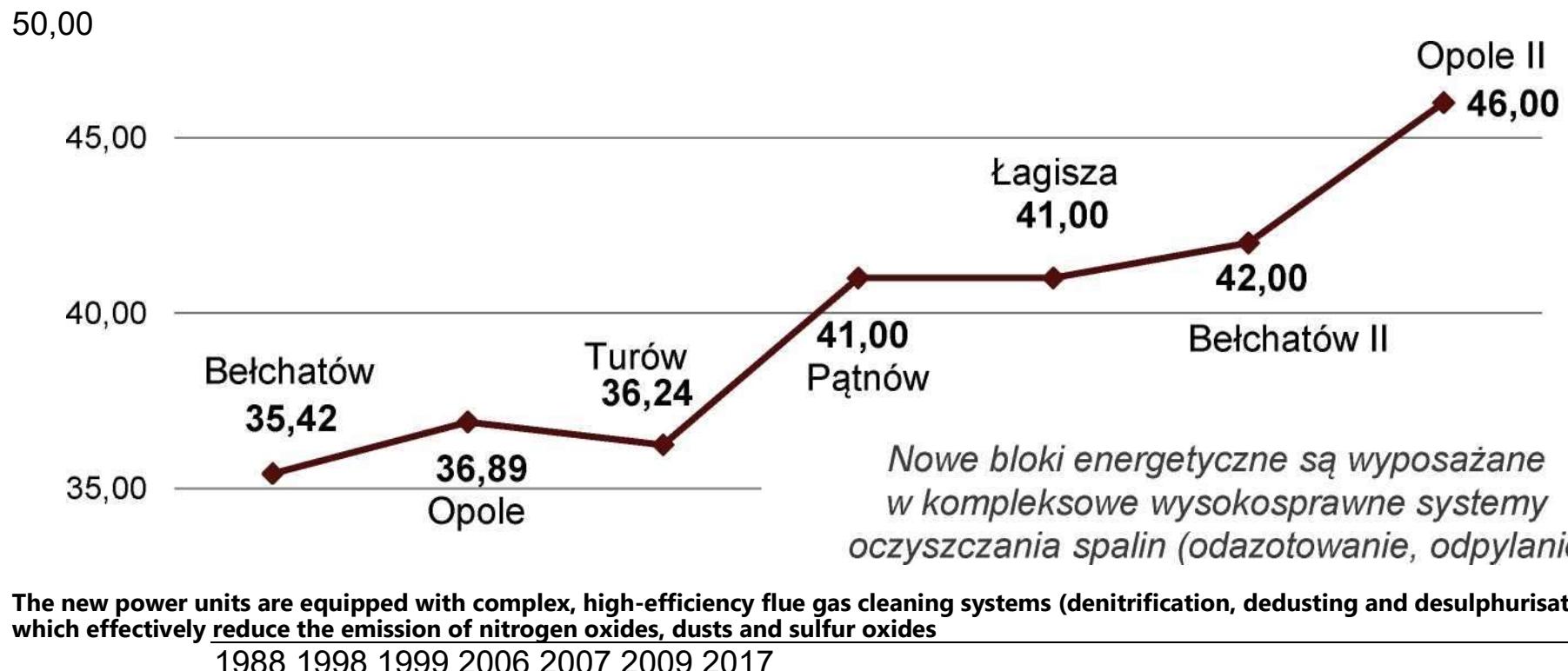
There is a minimum of 3 jobs in the mining-related industry for 1 job in the mining industry

Assuming an average remuneration for 1 job in the amount of approx. 1 500 EUR per month

Source: Eurostat, own calculations

In 2017, 173 million tonnes of coal were imported into the European Union, which means a transfer of around 700,000 jobs out of the EU and transferring out nearly EUR 13 billion in this way, which is PLN 56 billion.

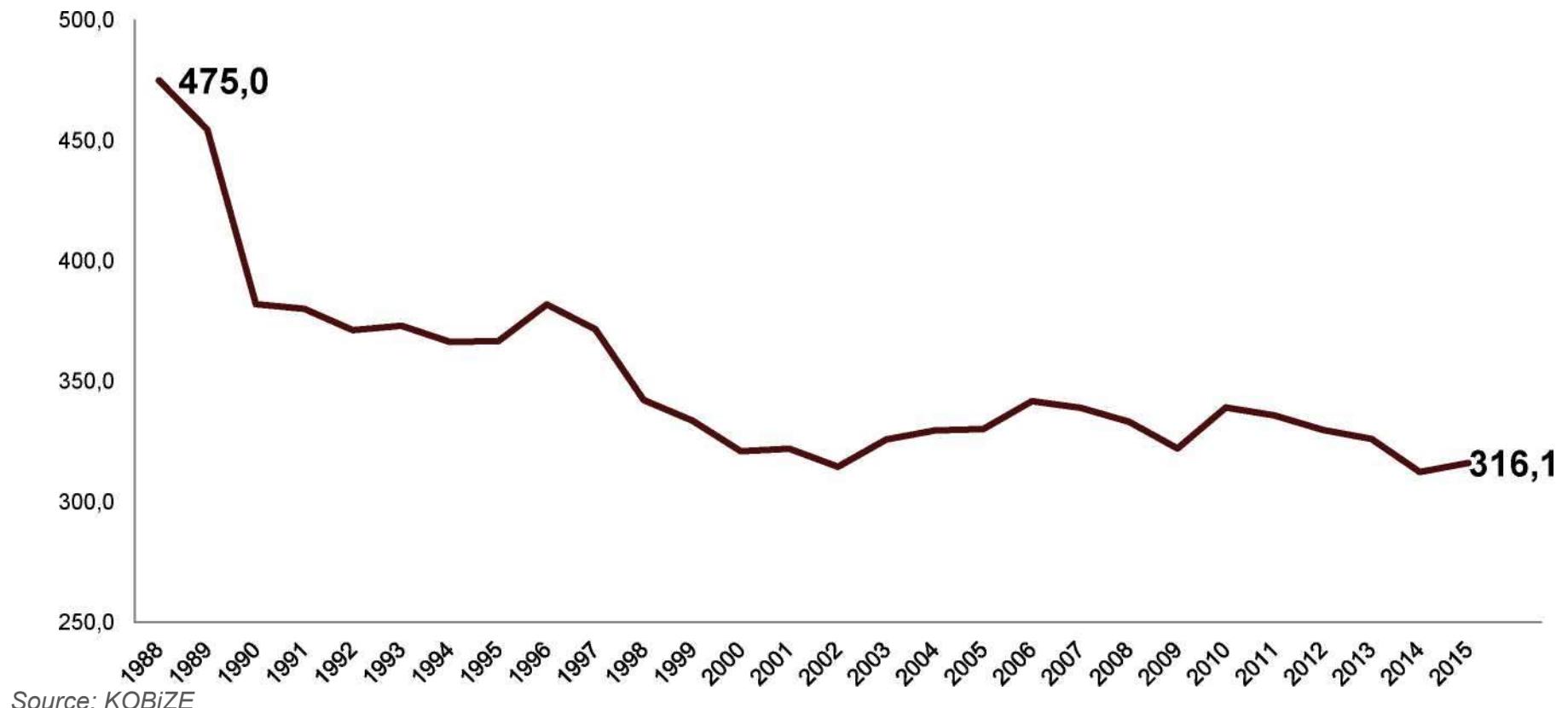
The increase in the efficiency of coal-fired units in Poland in the years 1988 - 2017 [%]



Source: Z. Dziemidowicz, P. Szyszka, I. Krupa: *The blocks on the horizon. Technical requirements of new generating units at PGE Elektrownia and Opole S.A.*. Thermal and Professional Energy 11/2011

**The efficiency of coal blocks in Poland has increased by 10% since 2000.
An increase in efficiency of the power plant by 1% leads to 2-3% reduction of CO₂ emissions.**

Greenhouse gas emissions in the energy sector in Poland in the years 1988 - 2015 [Mt CO₂ eq.]



Since 1988, greenhouse gas emissions from the energy sector have decreased by more than 33%



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Thank you for your interest



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