

# COOPERTION PERSPECTIVES

## NCBR - JCOAL

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# National Centre for Research and Development

- Governmental agency supervised by the Minister of Science and Higher Education
- Since 2011 has been implementing 3 EU Operational Programmes: Human Capital, Innovative Economy, Infrastructure and Environment
- 2014 – 2020 new Operational Programme Intelligent Growth
- 260 employees and approx. 2340 collaborating experts
- Budget in 2014 - EUR 1,3 M

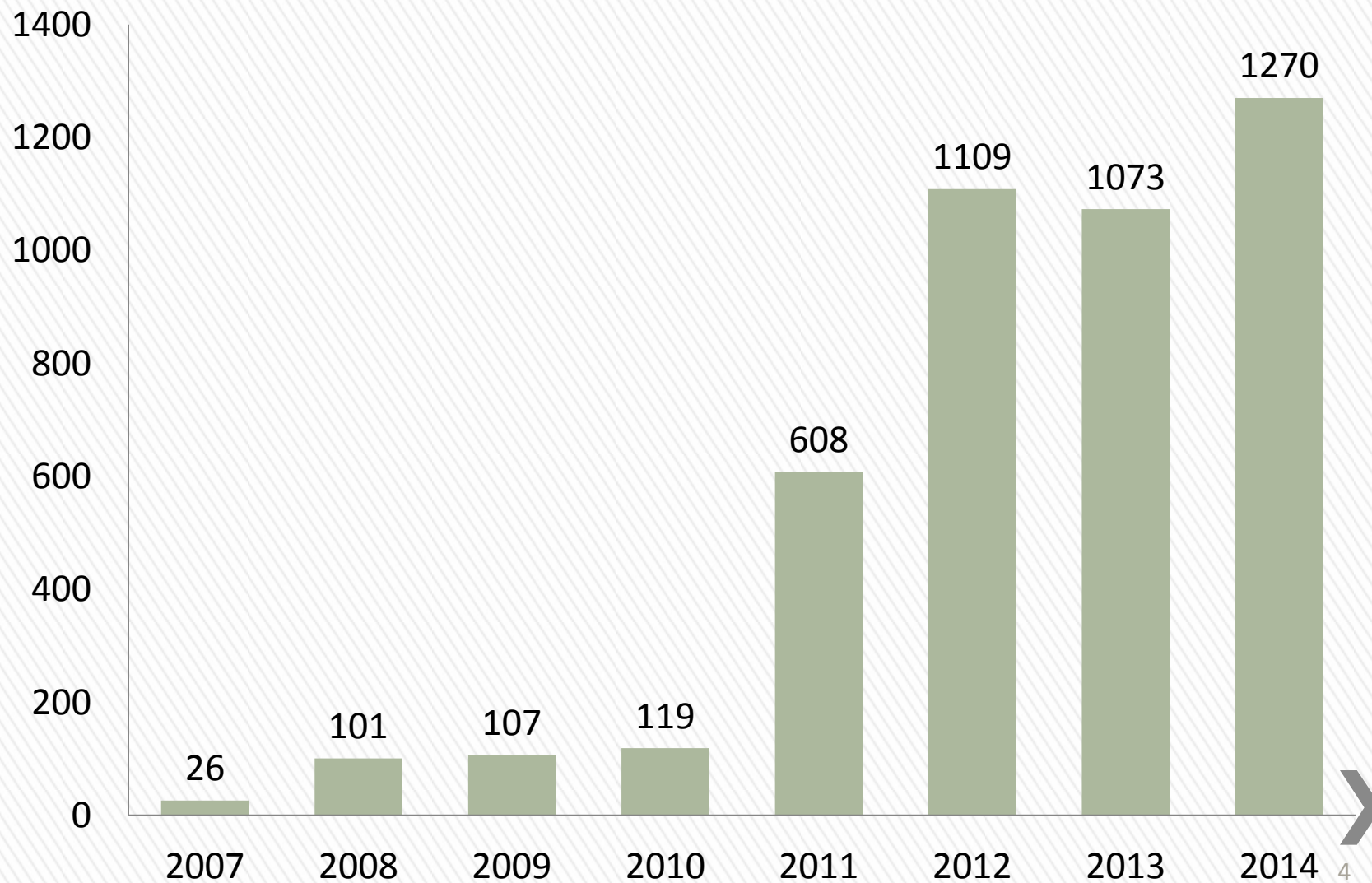


## Mission and tasks

- Implementation of strategic R&D programmes defined by the Government
- Support of commercialisation and other forms of transfer of research results to industry
- Applied research programmes
- National security and defence programmes
- Support of young researchers
- International cooperation
- Facilitation of science-business cooperation



# NCBR budget 2007-2014, in M EUR



# ENERGY AS R&D PRIORITY



## ENERGY RELATED PROGRAMMES

**Strategic Program: Advanced Technologies of Clean Energy Generation**

**NCBR funding (2010 -2015): 300 M PLN (EUR 72 M)**

**Companies: 60 M PLN (EUR 14,5 M)**

**Scope:** High energy efficiency(coal combustion, gasification, biomass);  
Reduction of pollutants emission to the atmosphere

**Strategic project: Technologies supporting the development of safe nuclear power**

**NCBR funding: 50 M PLN (EUR 12 M)**

**Scope:** Nuclear safety, waste management, thermonuclear fusion,  
methods of enriching uranium ores

**Strategic project: Integrated System for Reducing Energy Consumption in the Maintenance of Buildings**

**NCBR funding: 26,7 M PLN (EUR 6,4 M)**

**Scope:** Reduction of the energy consumption of buildings + use of renewable energy sources



# JOINT UNDERTAKINGS

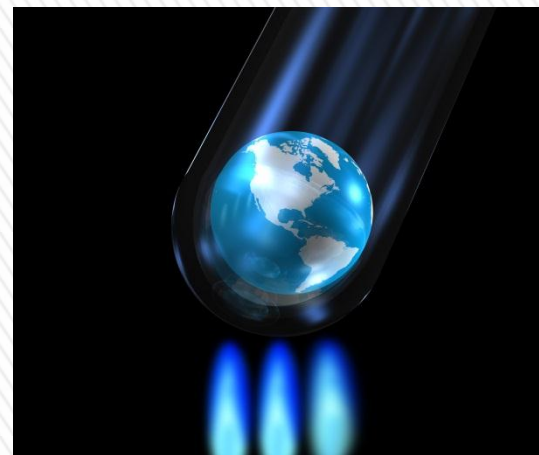
## BLUE GAS

Joint undertaking of (ARP S.A. - Industrial Development Agency )

- develop technologies related to shale gas extraction in Poland and their implementation by companies operating in Poland
- encourage entrepreneurs to invest in R&D activities

Budget:

- 500 M PLN (EUR 120 M)
- 125 M PLN (EUR 30 M) - NCBR
- 125 M PLN (EUR 30 M) - ARP S.A.
- 250 M PLN (EUR 60 M) - contribution of industry (Lotos, Orlen, PGNiG and others)



# JOINT UNDERTAKING - GEKON



Joint undertaking of NCBR and NFOŚiGW (National Fund for Environmental Protection and Water Management)

- pro-ecological technologies:

Environmental aspects of exploration and gas extraction from non-conventional sources; energy efficiency and energy storage; rational use and protection of water; clean energy; novel technologies for production of fuels, energy and materials from waste and recycled waste.

Budget:

- 400 M PLN (EUR 96 M)
  - 200 M PLN (EUR 48 M) - NCBR
  - 200 M PLN (EUR 48 M) - NFOŚiGW

# International Cooperation

## NCBR - partner in more than 30 international R&D initiatives

- **European Programmes** - multilateral partnerships with European R&D funding agencies and ministries (FP7; Horizon 2020)
- **Bilateral Programmes** - Luxembourg, Germany, Israel, Singapore, Taiwan, Japan, Polish-Norwegian Research Programme (Norway Grants)
- **317 ongoing international R&D projects** - funding for Polish entities EUR 100 M





# NCBR-JCOAL Cooperation

- **MoUnd between NCBR and JCOAL** on bilateral research cooperation was signed on 3 October 2013
- **Areas of cooperation:**
  - Highly efficient next generation power technologies;
  - Carbon Capture and Storage technologies;
  - Efficiency improvements for coal fired power plants (refurbishment);
  - Advanced materials for high temperature use in power plants;
  - Lignite upgrading (eg. lignite drying);
  - Coal Gasification;
  - Coal to liquid;
  - Coal to SNG;
  - Sustainable coal resources management.



# NCBR-JCOAL Cooperation

- **NCBR will launch a call for bilateral project proposals (legal requirement concerning the mode of project funding by NCBR)**
- **Eligibility criteria:**
  - Proposal must be within the thematic scope of the NCBR-JCOAL MoU
  - Proposal must contain a Japanese partner institution eligible for funding at JCOAL
  - Polish project partner must have an established cooperation with JCOAL based on an agreement/MOU
  - Eligible applicants: research entities , industry



# NCBR-JCOAL Cooperation

- **Application and Evaluation procedure:**
  - Formal based on eligibility criteria mentioned above and further national requirements
  - Peer-review by experts
  - NCBR decision based on the outcomes of peer-review
  - the procedure from the call launch to the NCBR's decision – about 3 months (depending on time available for the submission of proposals – about 1,5-2 months)
- **Funding**
  - Proposals recommended for funding – project contract with NCBR on the basis of which funding is transferred



**Thank you very much for your attention**

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