



Invest in the environment together

The National Fund for Environmental Protection and Water Management

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Adaptation to Climate Change and
Environmental Risks**

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1. Financing system of environmental protection in Poland

1. Environmental Protection Funds:

- National Fund for Environmental Protection and Water Management
- 16 Voivodeship Funds for Environmental Protection and Water Management

2. Foreign aid, including the European Union

3. Funds from local governments, including counties and communes

4. State budget and voivodeship budget

5. Bank for Environmental Protection (BOŚ) and other banks

6. Other (agencies, foundations, private funding)



2. National Fund for Environmental Protection and Water Management

- 29 years of experience in financing environmental protection and water management projects
- established during the transformation of 1989
- leader of the environmental financing system in Poland
- implementation of environmental protection policy
- current level of financing environmental protection **1.2–1.4** bn EUR annually
- applying EU and World Bank standards for environmental funding





3. Activity of the National Fund from 1989 to 2017

Financial support for environmental projects, from 1989-2017 – **20,4** bn EUR, including:

1. National funds – **11.1** bn EUR, including:

- loans – **5.8** bn EUR
- subsidies – **5.0** bn EUR
- equity investments – **0.3** bn EUR

2. Foreign funds – **9.3** bn EUR



4. Activity of National Fund between the years 1989 - 2017

The number of signed contracts:

1. National Fund (1989-2017) – 28 484

2. Foreign funds – 2 826, including:

- ISPA/The Cohesion Fund 2004-2006 – **90**
- Operational Programme Infrastructure and Environment 2007-2013 – **1 142**
- Other foreign funds (1994-2016), among them EFP PHARE, SIDA, SPO WKP – **450**
- Operational Programme Infrastructure and Environment 2014-2020 – **729** (until 10.09.2018 - 935)
- European Economic Area Financial Mechanism and Norwegian Financial Mechanism – **415**

Total number of contracts: 31 310



5. Achievements of the National Fund until 2017

1. Management of water and sewage system – 4 075 projects, including:

- construction and modernisation of more than **1 600** wastewater treatment plants
- construction and modernisation of more than **83** thous. km of sewerage networks

2. Management of waste – 1 236 projects, including:

- building of 7 waste incineration plants with full capacity of **1.1** mln tons/year
- increasing the amount of recovered waste (including recycling) **5.4** mln tons/year

3. Air and climate protection – 3 913 projects, including:

- **reduction of emissions:**
 - reduction of sulphur dioxide **800** thous. tons/year
 - reduction of carbon dioxide by **14.8** mln tons/year
 - reduction of dust by **260** thous. tons/year
 - producing energy from renewable energy sources – **2.1** TWh/year
- **increasing energy efficiency:**
 - energy savings – **3.4** TWh/year
 - thermomodernisation has been implemented in **4 228** public buildings

6. Investments in wastewater management outside of Poland, in the catchment area of the Bug river

- The National Fund is allowed to co-finance projects outside of Poland if they have influence on the condition of environment in Poland and are approved by the Minister of the Environment
- The National Fund participates in improving the quality of Bug river waters by co-financing and supporting WWTP:
 - in Brest (HELCOM hot spot) in 2009-2014
 - in Lviv (HELCOM hot spot), pending





7. Investments in wastewater management outside of Poland, in the catchment area of the Bug river

General activities:

- **The Priority program Investment in wastewater management outside the country in the catchment area of the Bug river:**
 - types of projects: modernization of WWTP
 - Preferential loan
 - granted and repaid in PLN
 - loan amount: from 0.24 mln EUR
 - co-financing period: the loan may be granted for a period not longer than 20 years
- **National Fund participates in many events organized in Belarus and Ukraine, for example: Lviv EcoForum, the Self-Government Day Conference or the International Water Forum. Sharing our experiences and promoting ecological solutions in Belarus and Ukraine is one of the most important international activities of National Fund**

8. Investments in wastewater management outside of Poland, in the catchment area of the Bug River

- **Case study – Brest WWTP – two projects**

- 26.10.2009 Agreement for a grant – *Reducing the ecological threat caused by the accumulation of sediment in the sedimentary lagoons located in the flood risk area of the Bug river in the Brest Wastewater Treatment Plant* – amount of 0.4 mln EUR
- 21.11.2011 Agreement for a grant – *Modernization of secondary settlers in the Brest wastewater treatment plant* – amount of 0.9 mln EUR

- **Case study – Lviv WWTP**

05.10.2017 Memorandum of Cooperation signed between the National Fund, Lviv city and Lvivvodokanal, under the auspices of the Ministry of Ecology and Natural Resources of Ukraine. The main objective of the Memorandum is the implementation of necessary actions to ensure effective and complex treatment of city wastewater for minimizing pollution of the Bug River.



9. Cooperation



Technical visits in Lviv of NFEP&WM Experts:

- 24 – 27.10.2017
- 10 – 12.01.2018
- 23 – 25.05.2018

Result:

Assumptions to prefesaibility study of modernization WWTP in Lviv

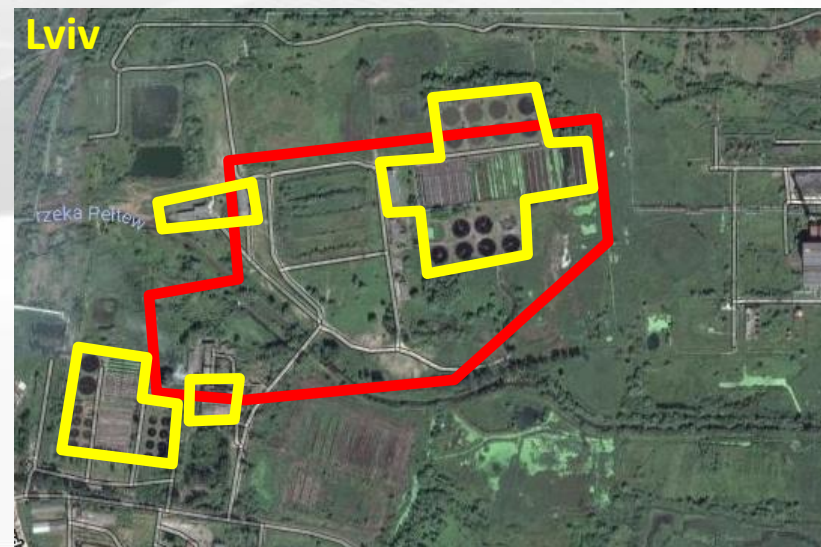
Main features:

- Global approach, the goal was not to focus on specific equipment or processes,
- Problem of completion of basic data,
- Proove of principal influence of sewerage network on WWTP,
- Weak monitoring of industrial wastewater,
- Limited human resources.



10. Comparison existing Lviv WWTP to Warsaw WWTP

- KOC 1-2 – 1 419 570 PE
- KOC 3-4 – 1 281 000 PE
- Sum PE – 2 705 570 PE
- Comparing to Czajka WWTP in Warsaw – 2 100 000 PE





Thank you for your attention

Departament of Adaptation to Climate Change and Environmental Risks

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