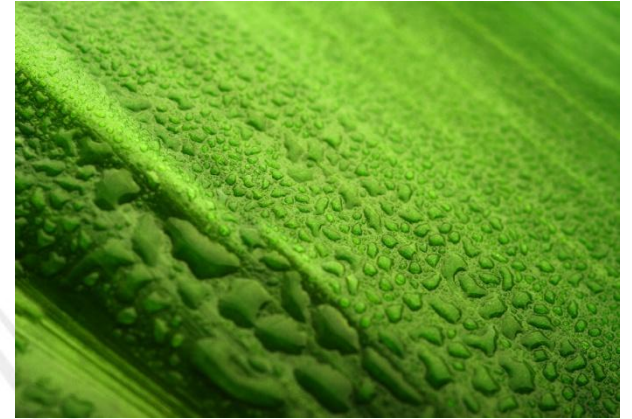




# Financing energy efficiency in Poland



**Marcin Jamiołkowski**

Department of Industrial Projects  
NFEP&WM

Washington DC, April 24, 2013



# Agenda

1. Rationale
2. National Fund
3. Priority Programmes
4. Conclusions

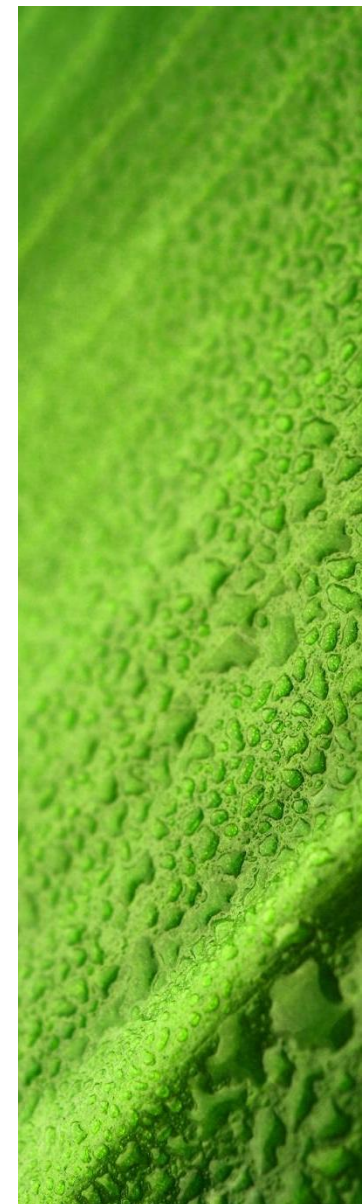


**Massive potential in energy efficiency in Poland**



# Rationale

- Environmental targets
- Climate & energy policy
- Potential (53 TWh by 2016)
- Energy prices
- Aging infrastructure





# Rationale

**Energy deficit: 6-7 GW by 2020**

**Required investments: USD 28-37 BLN**



# National Fund

- Established in 1989
- Legal personality
- 550 staff (207 engineers)

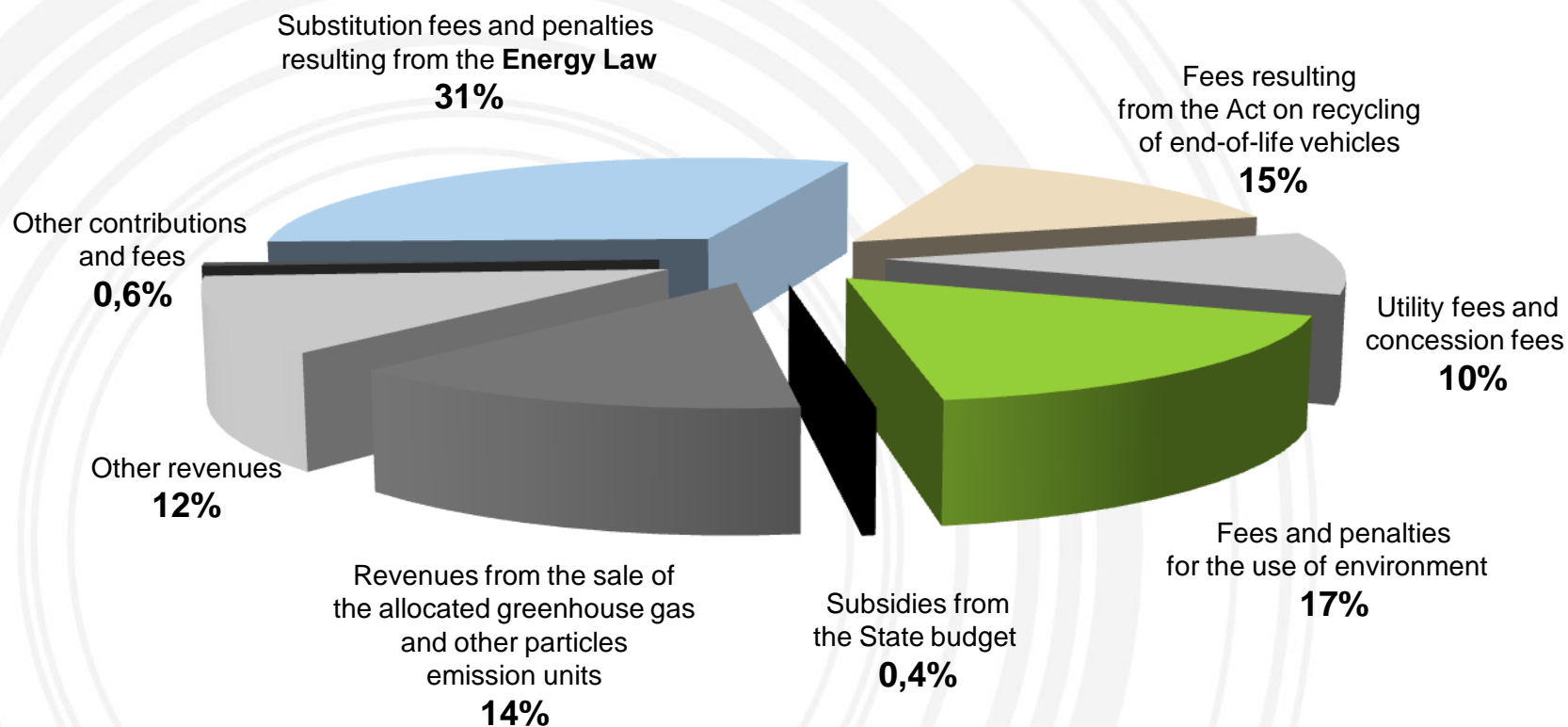


**Over 20 years experience in  
environmental protection financing**



# National Fund – revenue structure

**Total: EUR 12 108 MM**

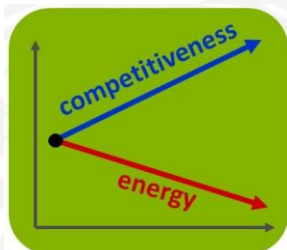


# Portfolio

- Subsidies
- Loans (investment, bridge)
- Interest rate subsidies
- Capital investments & Equity
- Interest rate or bonds price redemption subsidies
- Partial repayment of bank loan capital
- Awards



# Priority Programmes



Efficient use  
of energy



Smart Grids

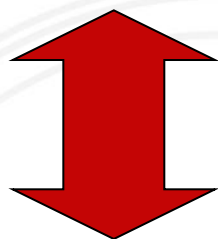
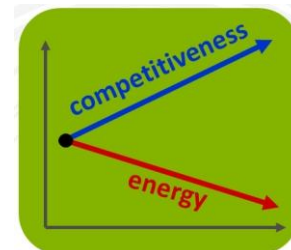




# Efficient use of energy

**AUDITS**

**Grants (PLN 40 MM)**



up to 70%-75% of project's cost

**INVESTMENTS**

**Loans (PLN 780 MM)**

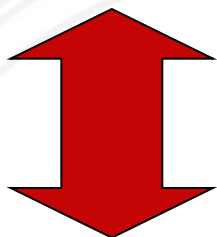
**Goal: energy savings up to 1 000 GWh/year**

# Smart Grids

Budget: PLN 340 MM



*Education, documentation* → **Grants up to 70%**



*Investments (incl. RES)* → **Grants up to 50 %**

**Goal: energy consumption optimization in pilot areas**

# Energy-efficient lighting systems

**Budget:**

**Grants – PLN 160 MM (GIS)**

**Loans – PLN 196 MM (NFEP)**



- Energy Audits**
- Street lightning systems modernization**
- Intelligent control & management systems**



**Grants up to 45%**



**Loans up to 55%**



**Goal:** Lowering CO<sub>2</sub> emission through the increase of street lighting systems energy efficiency

# Low-emission public transport

**Budget: PLN 80 MM**



## ***Obligatory measures:***

- Purchase of CNG buses
- Drivers trainings

## ***Additional measures:***

- Infrastructure (e.g. fuel stations, P&R Parkings)
- implementation of urban transport management systems
- implementation of urban bike system

**Grants  
up to 100%**

**Goal:** CO<sub>2</sub> emission reduction & mitigation through the lowering of energy & fuel consumption in public transport.

# → Generator for ecological concepts



**Budget: PLN 400 MM**



***Beneficiaries: enterprises & research consortia***

***Areas: RES, ESS, recycling, unconventional gas***

**Complex financial instrument for financing RD  
and implementation of innovative eco-technologies**



# New Priorities



**ESCO**



**Low-energy  
houses**



**European Bank**  
for Reconstruction and Development



**Energy efficiency  
in SMEs**



**Other**

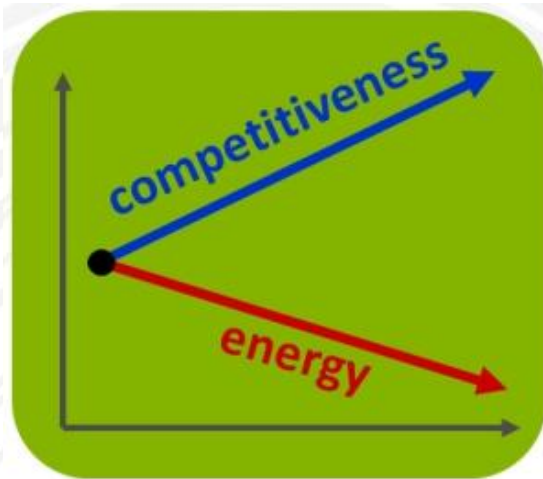


# **MFF 2014-2020**

- 1. Low-emission economy**
- 2. Energy efficiency & RES**
- 3. Eco-innovation**



# Conclusions



**ENERGY EFFICIENCY  
IS A  
TOP PRIORITY**

**Investment need:  
USD 28-37 BLN**

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