

# Landscape of climate finance: From supporting recovery globally to recent advances in the CEE region

*Online webinar*

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Conservation and Nuclear Safety (BMU).*

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# **Polish Landscape of Climate Finance: Energy & Buildings Sectors**

## About WiseEuropa

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**WiseEuropa Institute** is an independent think-tank based in Warsaw that focuses on socio-economic and foreign policy both at the national and European level.

WiseEuropa research areas include:



**Social policies and  
labour market**



**Macroeconomic,  
industrial and  
institutional  
policies**



**Digital economy  
and innovation**

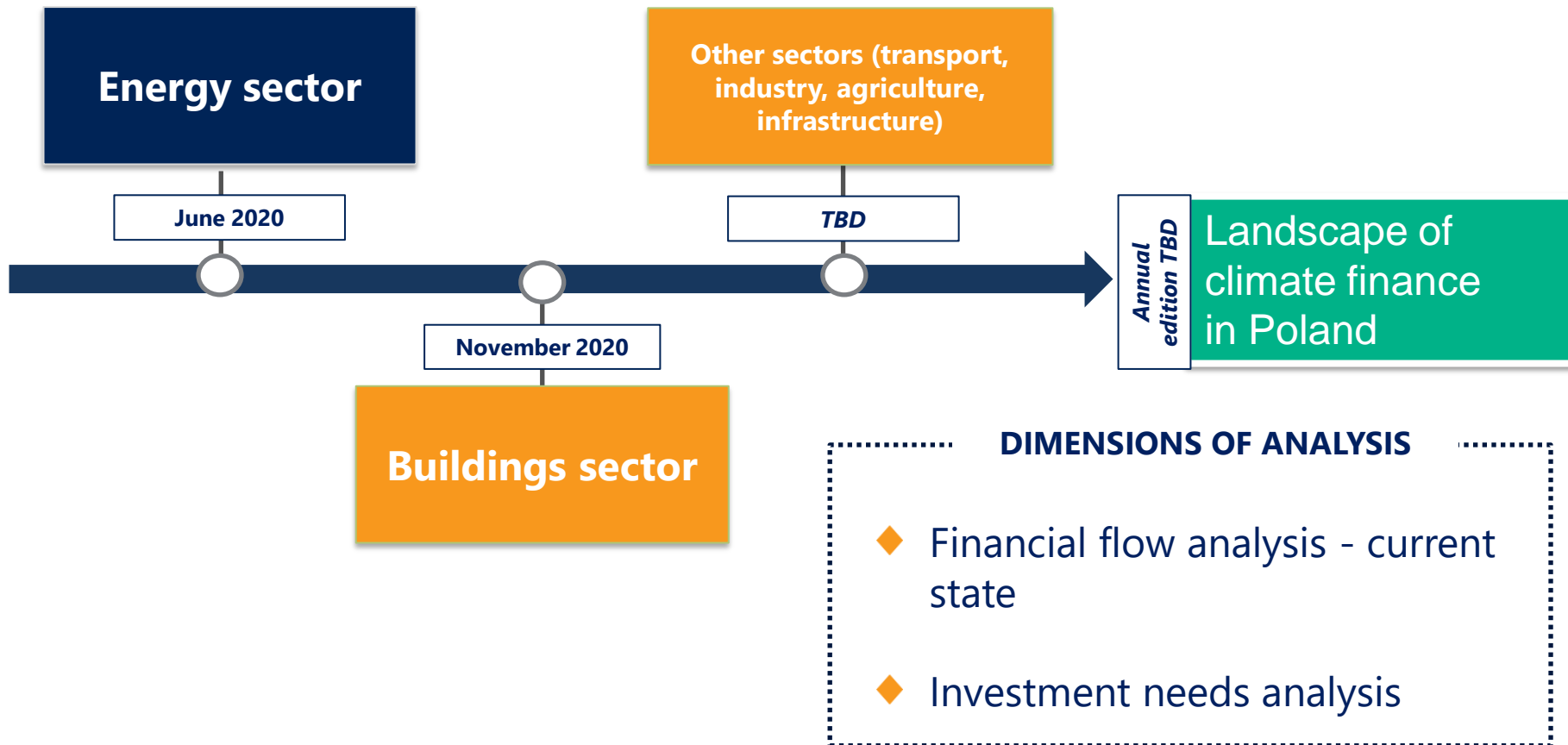


**European and  
global political  
and economic  
affairs**



**Energy, climate  
and environment**

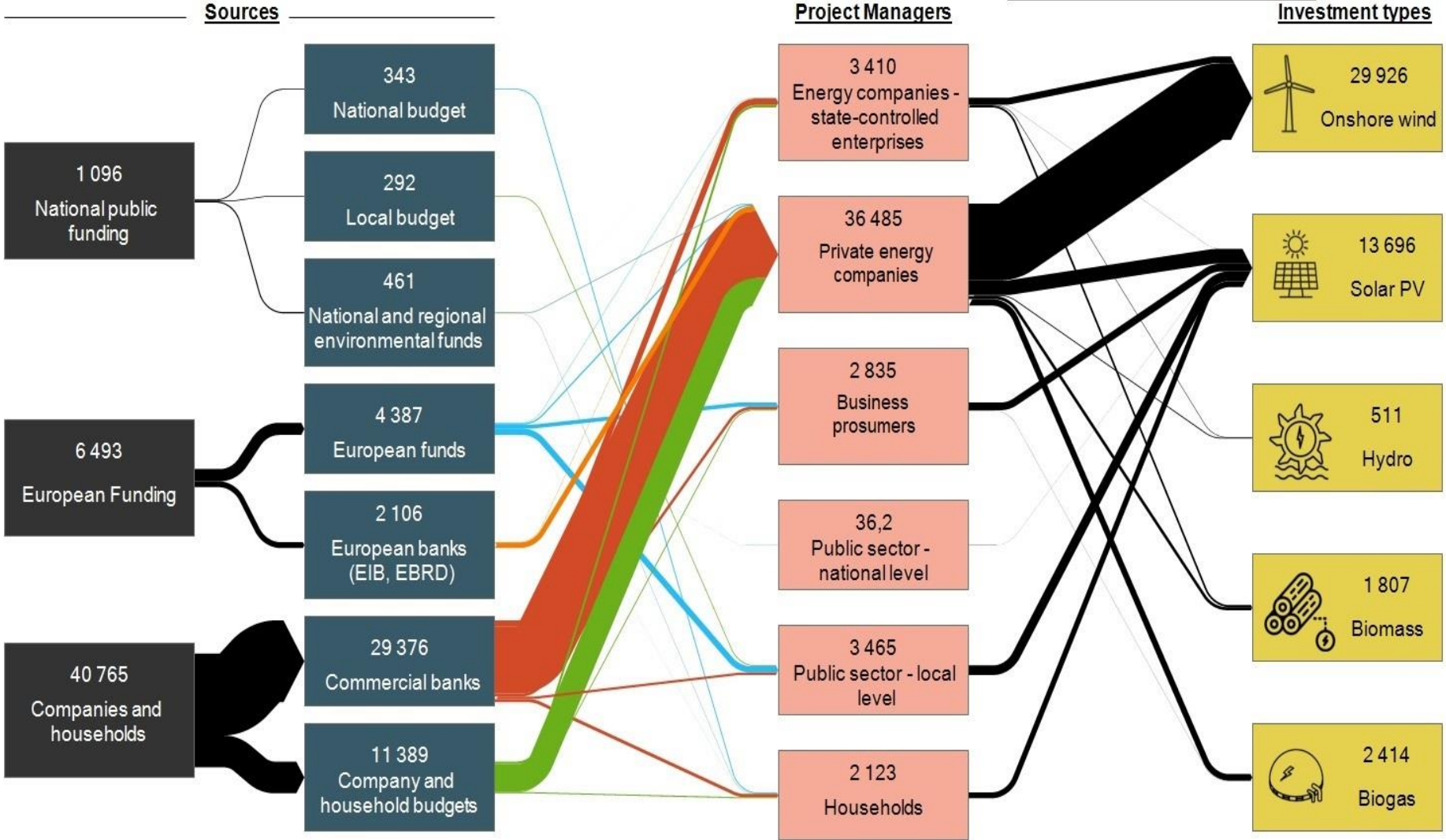
## Next steps



# **Landscape of climate finance in Poland, renewable energy sector (2013-2019)**

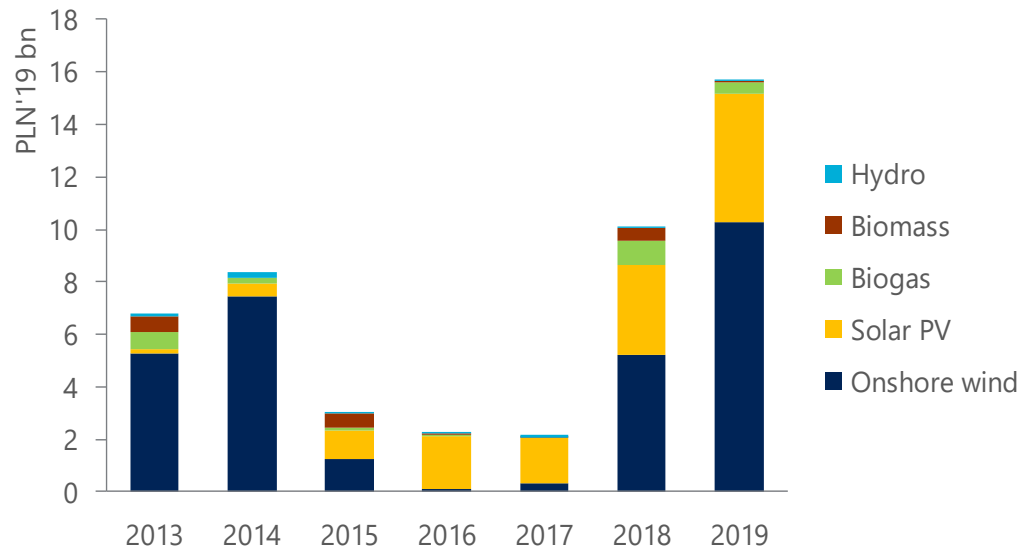
# Landscape of climate finance in Poland, renewable energy sector

(amounts in million PLN, total flow on the 2013-2019 period)



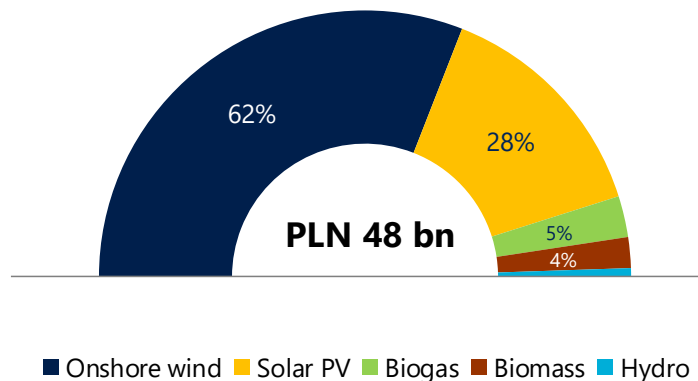
# Renewable energy technologies in 2013-2019

## Low-emission investments by investment types in 2013-2019

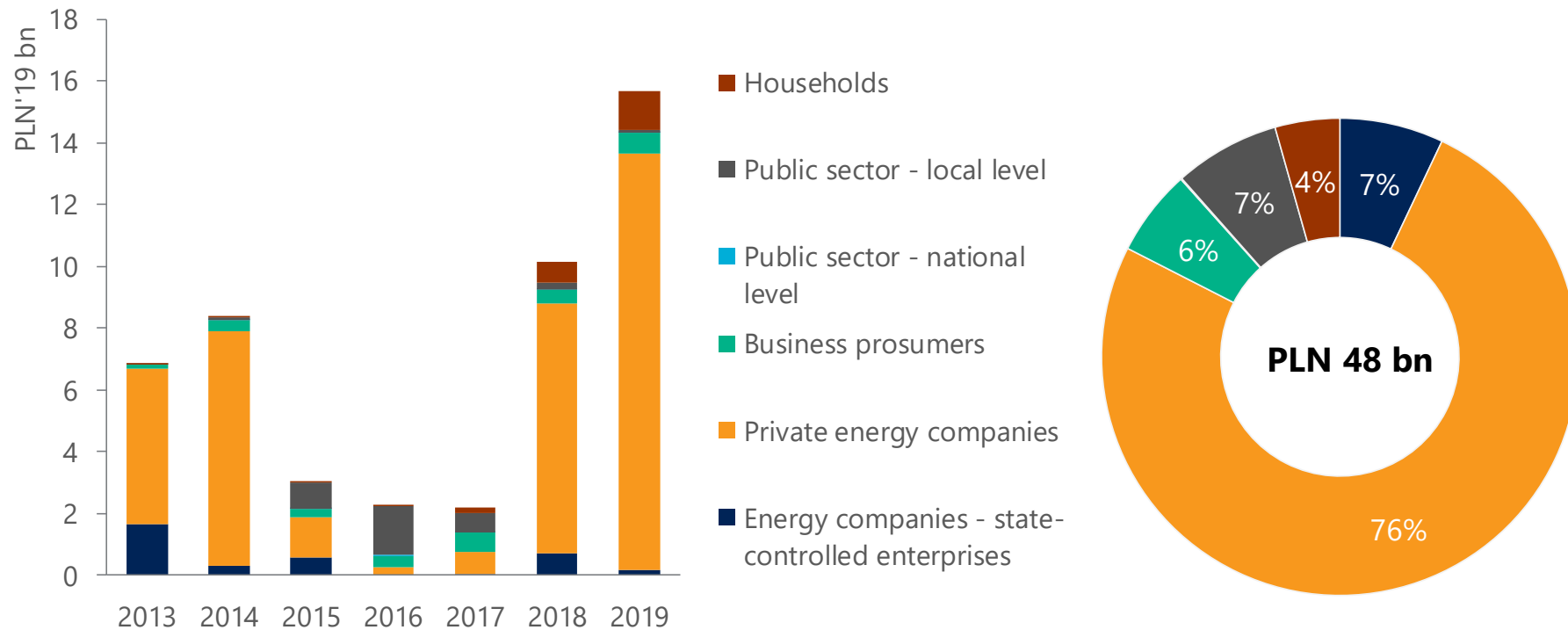


- Low-carbon investments in 2013-2019 in the energy sector amounted to PLN 48 billion
- Investment decline in 2015-2017 vs. investment boom in 2018-2019 → **high dynamics of investment growth in renewable energy is possible**

## Cumulative expenditures by investment types in 2013-2019



# Share of project developers in financing low-carbon investments in the energy sector

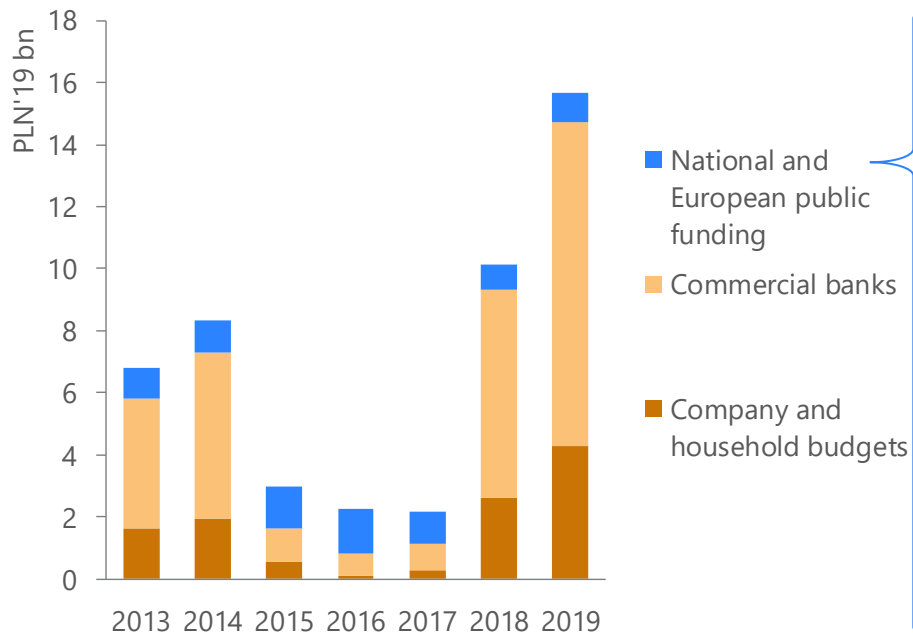


- 75% of all investments in renewable energy technologies in 2013-2019 were conducted by energy sector companies (excluding state-controlled energy companies)
- From 2016, involvement of a public sector at the local level was steadily decreasing, while households and business prosumers **began to play an increasingly important role.**

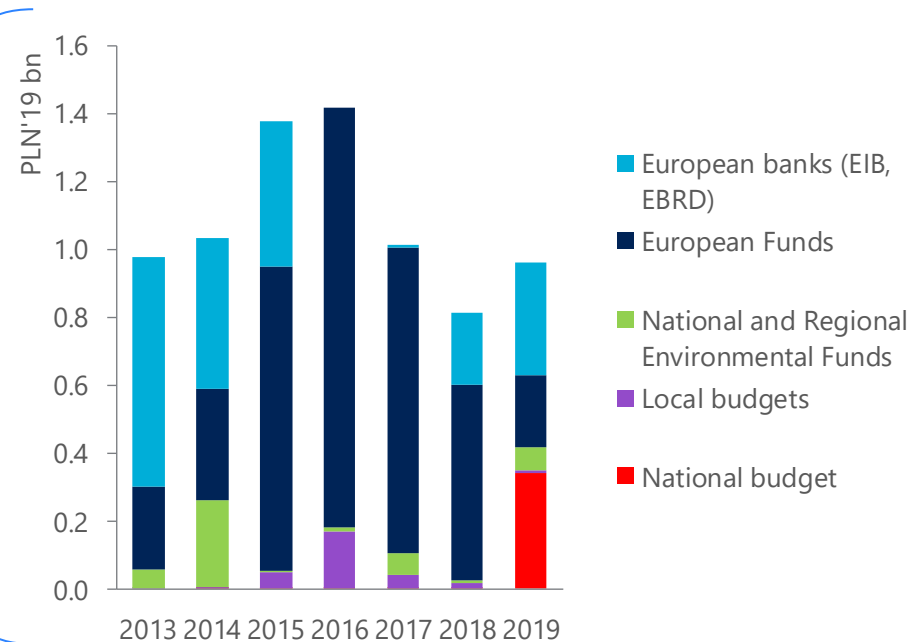


# Sources of financing in 2013-2019

## Investments in renewable energy sources by key financial sources



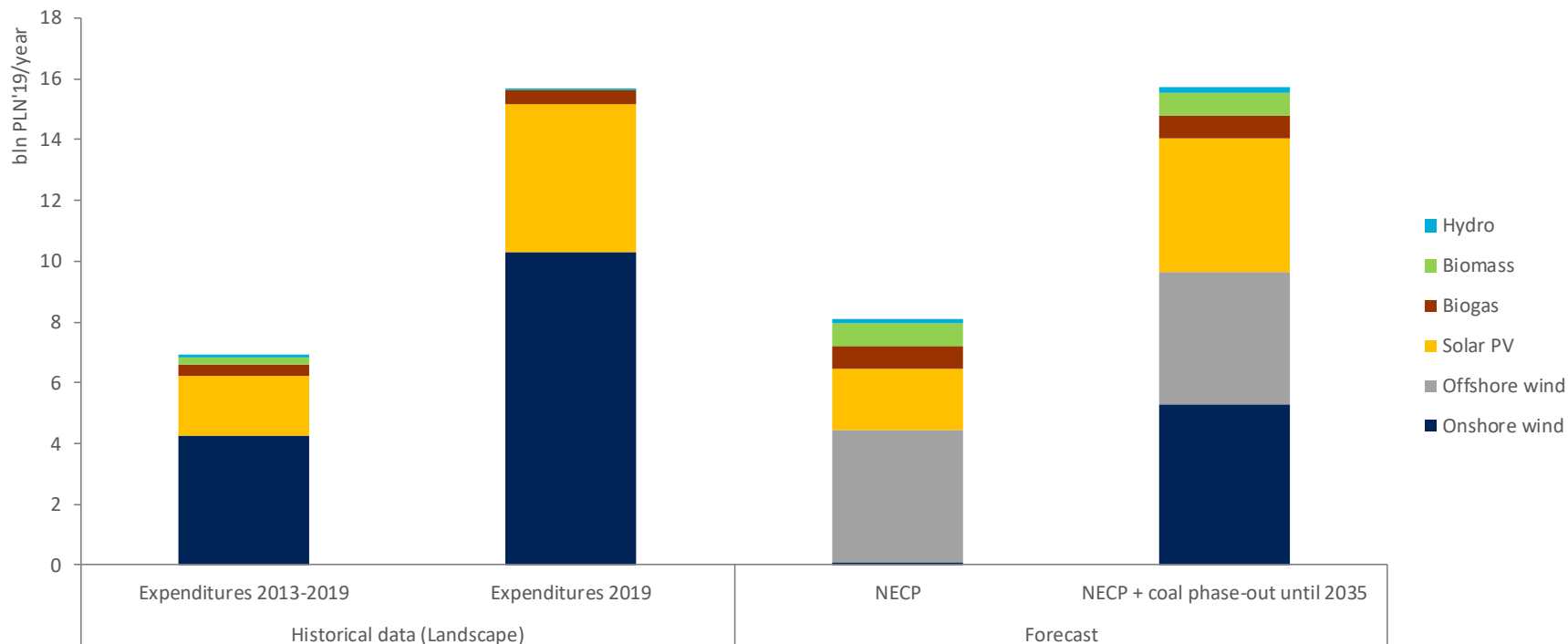
## Structure of renewable energy investments from domestic and European public sources



- The share of capital from the private sector in financing low-carbon investments in the energy sector increased 10-fold compared to 2017.
- From public funding sources, European funds played the largest role in 2013-2019.

# Medium term perspective: investment needs up to 2035

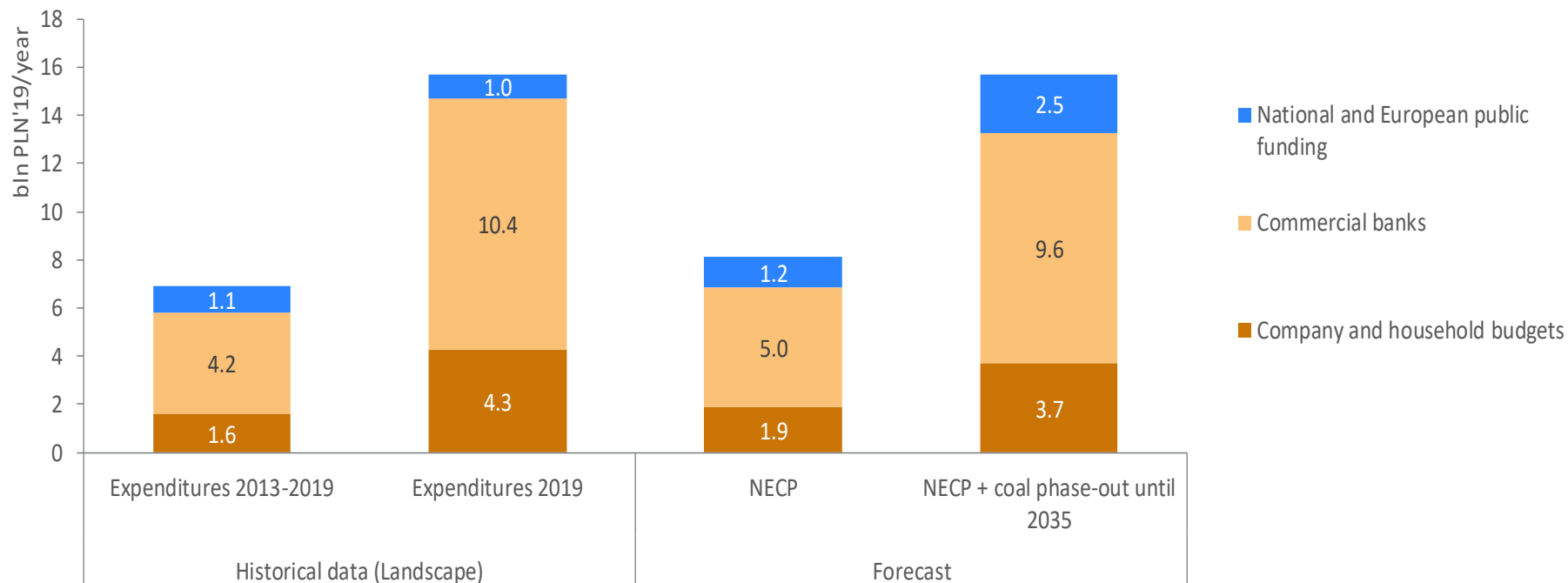
## Average annual expenditures on investments in RES in power sector by technology – historical data and forecasts until 2035



Source: WiseEuropa based on data collected for the purpose of Landscape preparation, data presented in NECP (MAP 2020) and enervis analysis (2020) and own estimates.

# Medium term perspective: investment needs up to 2035

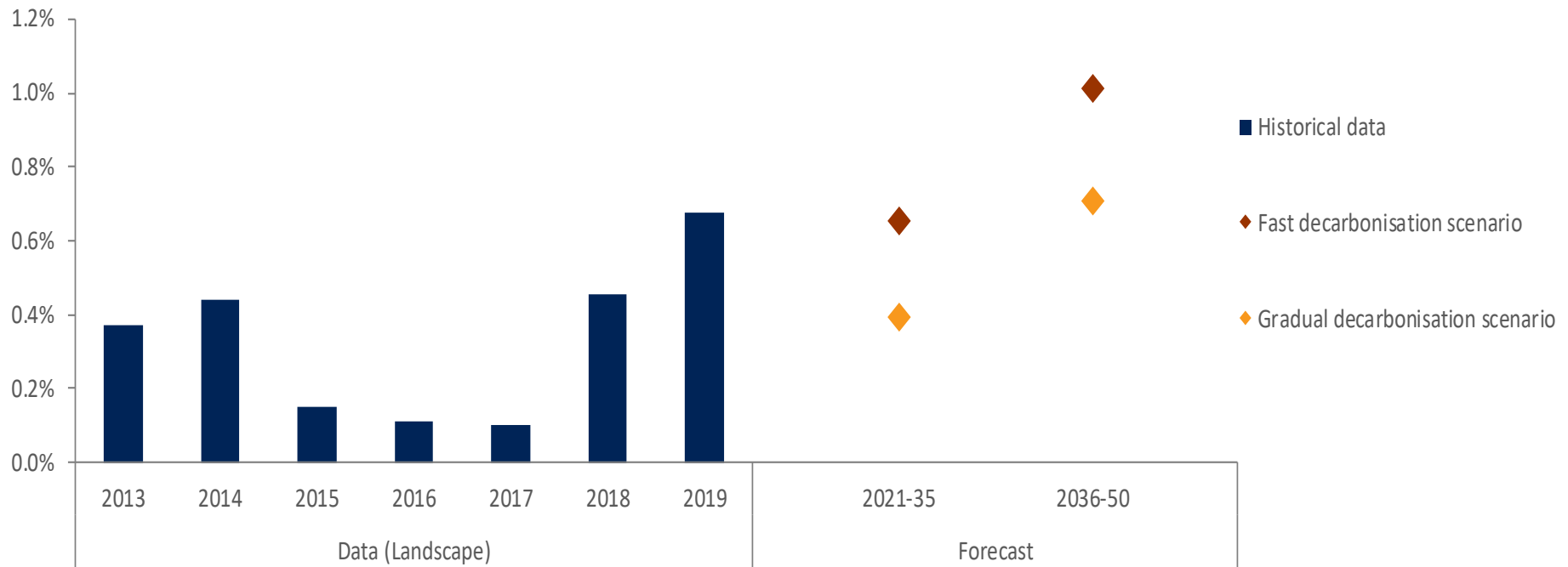
## Average annual expenditures on investments in RES in power sector by source of financing – historical data and forecasts until 2035



Source: WiseEuropa based on data collected for the purpose of Landscape preparation, data presented in NECP (MAP 2020) and enervis analysis (2020) and own estimates.

# Long-term perspective: investment needs up to 2050

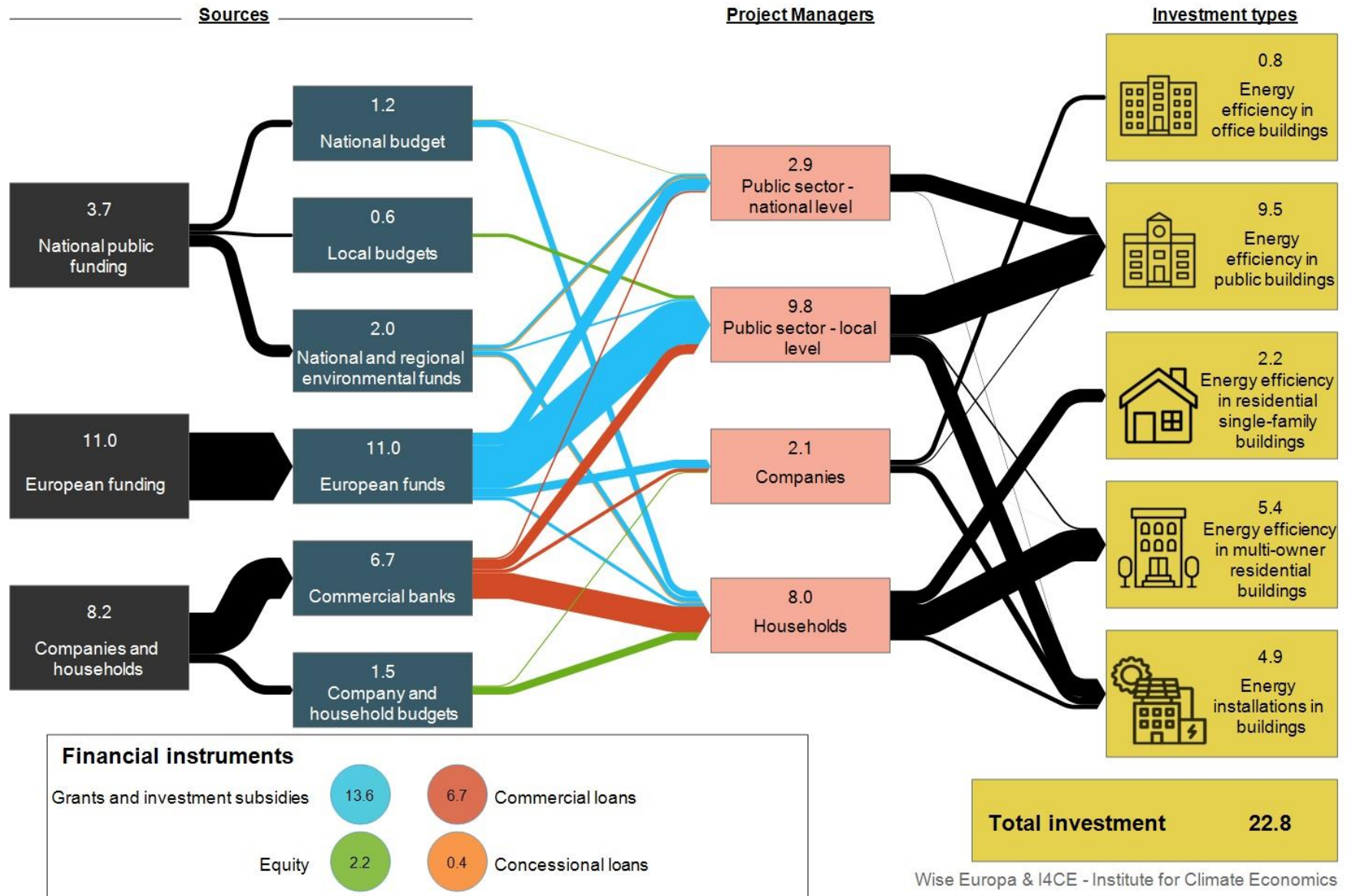
## Average annual expenditures on investments in zero-carbon capacities in power sector as % of GDP – historical data and forecasts until 2050



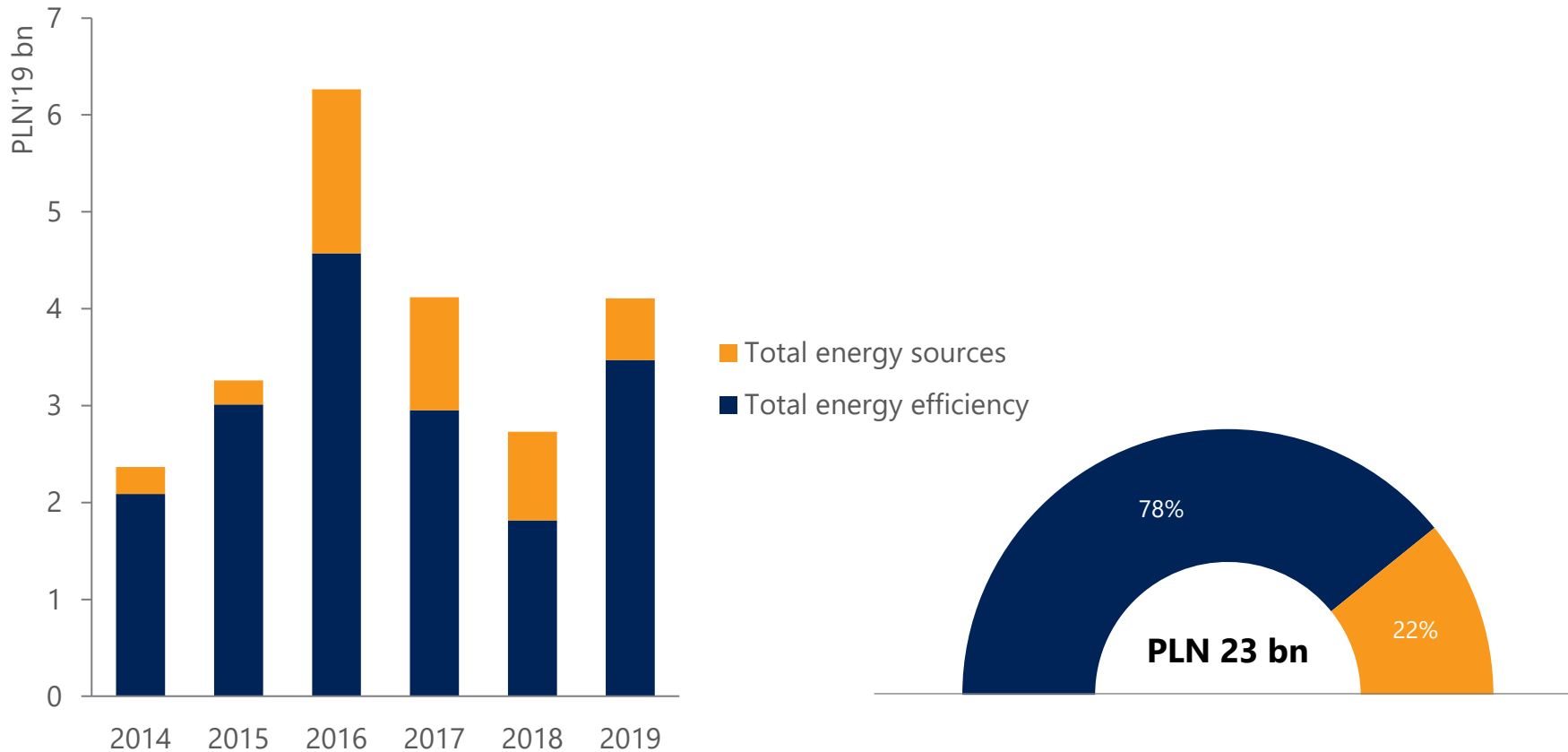
# **Landscape of climate finance in Poland, buildings sector (2014-2019)**

# Landscape of climate finance in Poland, buildings sector

(amounts in billion PLN, total flow on the 2014-2019 period)



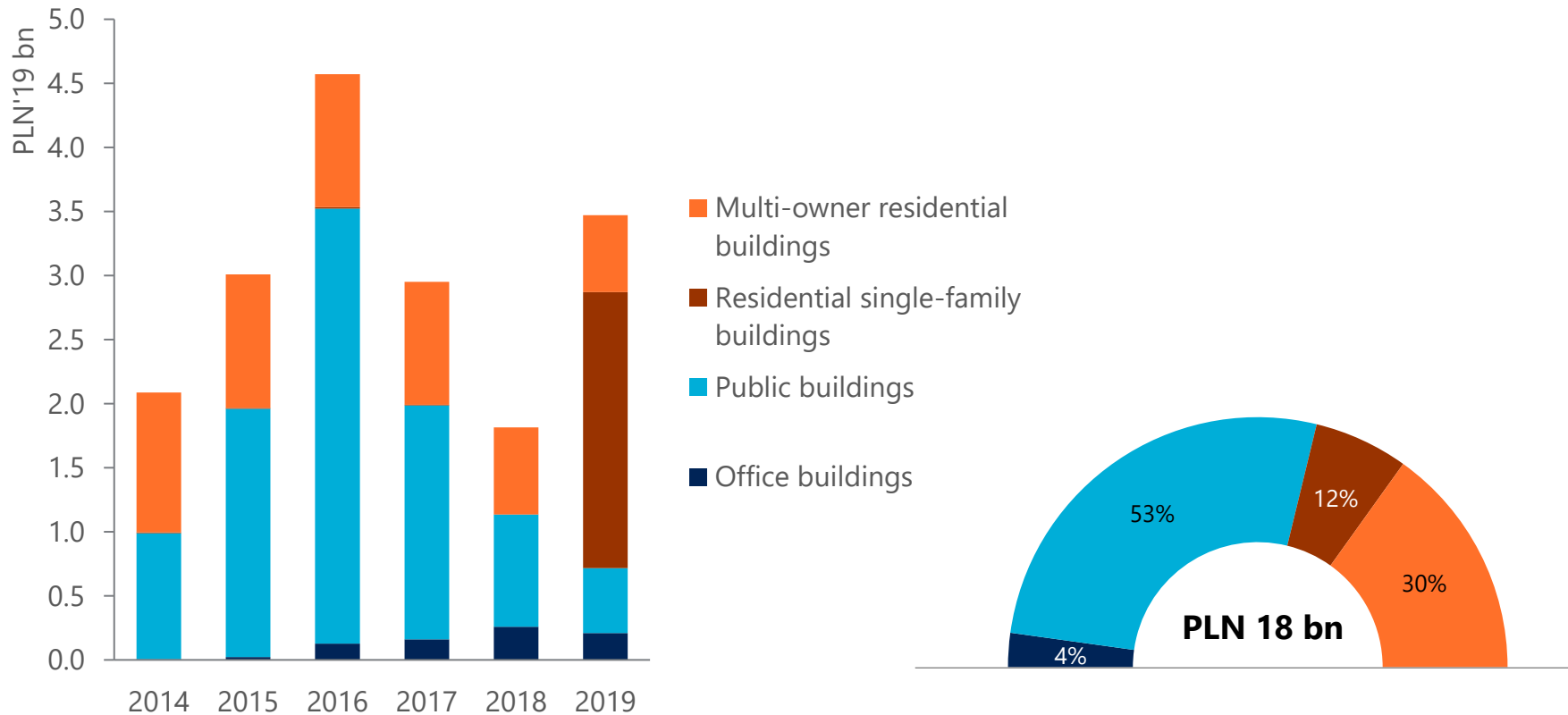
# Dynamics of investments in the renovation of building resources (left panel) and their cumulative value (right panel) in 2014-2019



- Low-emission investments in the buildings sector in 2014-2019 amounted to almost PLN 23 billion
- Investments in energy efficiency amounted to over PLN 18 billion

# Energy efficiency - dynamics

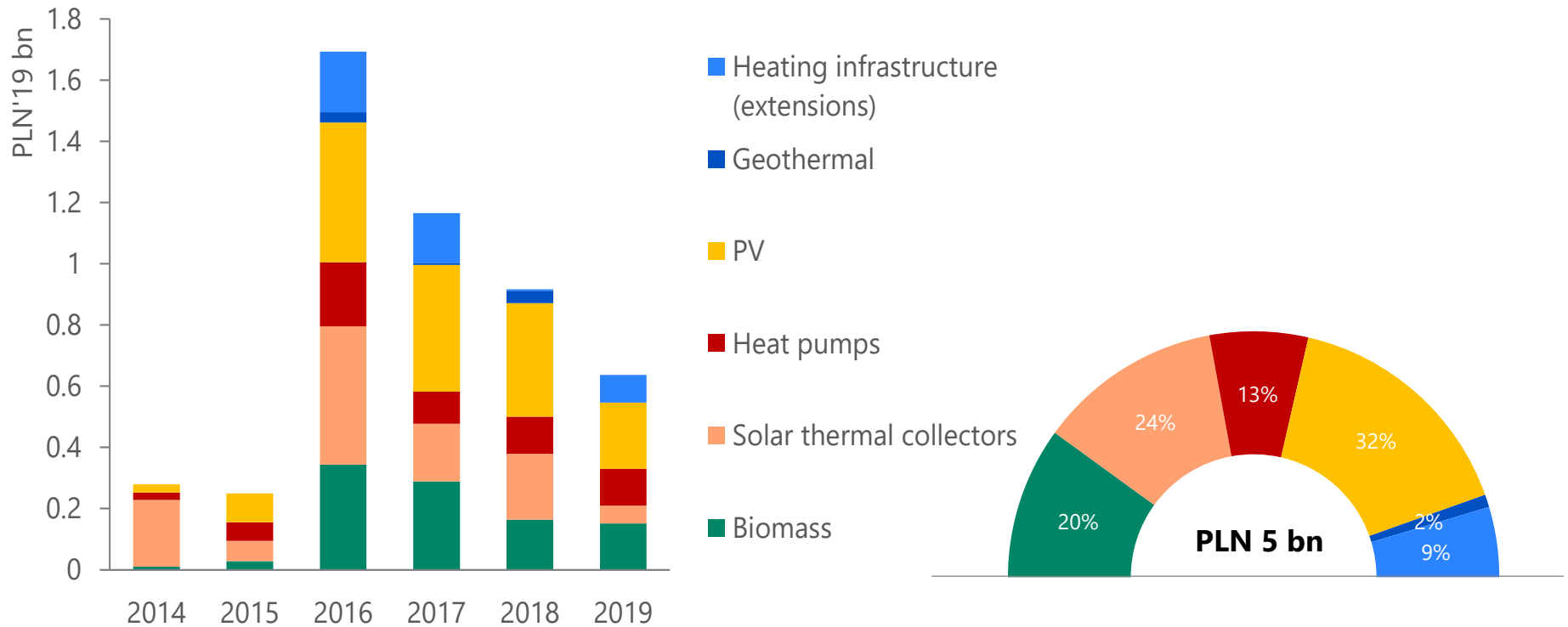
Dynamics of investments in improving the energy efficiency of buildings (left panel) and their cumulative value (right panel) in 2014-2019





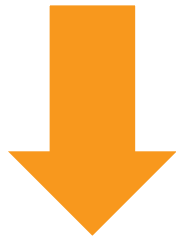
# Low-emission energy sources in buildings - dynamics

Dynamics of investments in low-emission energy sources (left panel) and their cumulative value (right panel) in 2014-2019



# Green Recovery

## Energy sector related objectives of the National Recovery Plan [?]



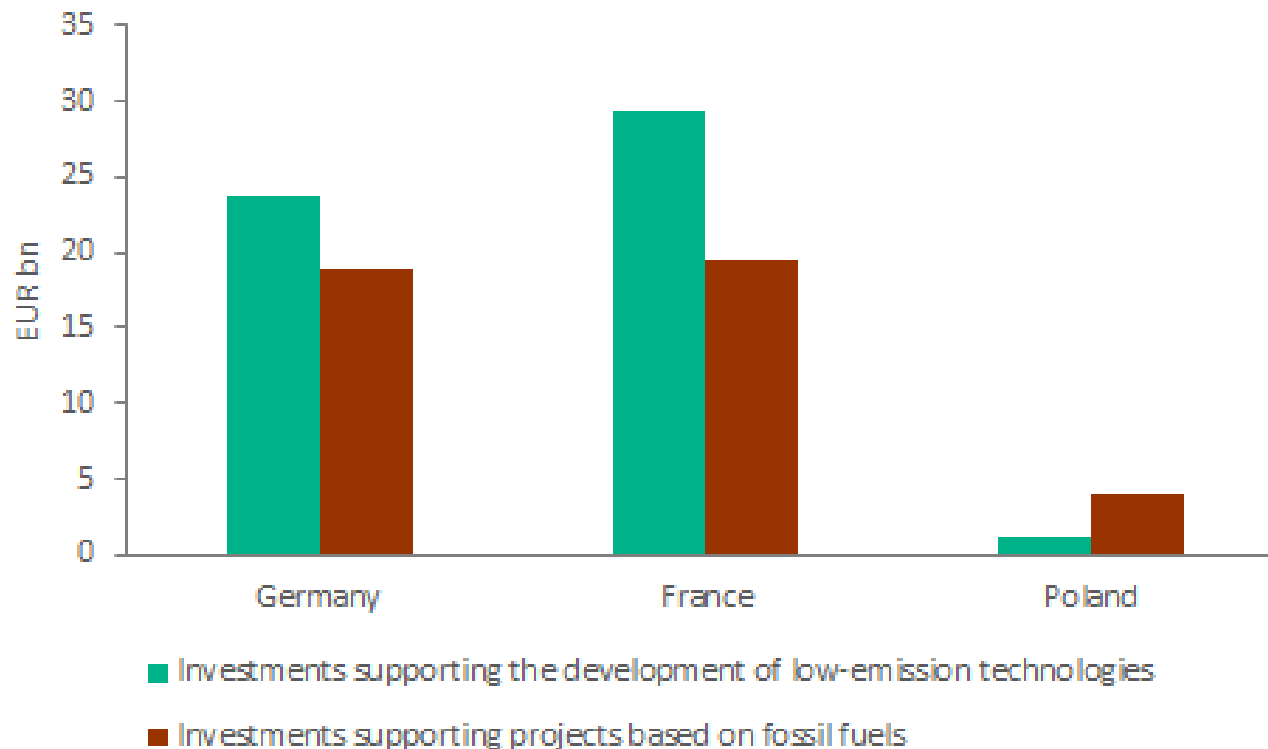
Renewables  
(focus on wind)



Buildings sector

# Green renewal. How to use a pandemic for a real transformation of the economy?

## Estimated volume of public investments related to the energy sector implemented in response to the economic crisis caused by the pandemic in Germany, France and Poland



Source: WiseEuropa study based on Energy Policy Tracker



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Thank you for your attention

[zofia.wetmanska@wise-europa.eu](mailto:zofia.wetmanska@wise-europa.eu)



## Alternating Current

Landscape of climate finance  
in the Polish energy sector

Deep transformation of the Polish energy system is possible without the need to increase the current investment levels in renewable energy, provided that the rate of investments in solar energy is maintained and investments in wind energy become unlocked. Access to finance is not a limiting factor for a significant reduction of GHG emissions in the Polish energy sector by 2035.

Edited by Maciej Bukowski



## Sustainable finance in Poland

The state of play and  
prospects for progress

The debate on sustainable finance and ESG integration in Poland is still in its early stages. It requires further discussion not only to present the ongoing actions at the EU level but also to introduce the topic in a more structured and comprehensive manner to the public and to the representatives of the financial sector.

Maciej Bukowski, Aleksander Śniegocki, Zofia Wetmańska



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## Klimatyczny efekt domina

Ryzyka transformacyjne dla  
polskiego sektora finansowego

Globalne trendy ograniczają liczbę podmiotów zdolnych do finansowania emisyjnych inwestycji oraz skupiają ryzyko klimatyczne na polskich instytucjach finansowych. Pilnie potrzebna jest systemowa refleksja nad tym wyzwaniem dla krajowego rynku finansowego.

Maciej Bukowski, Aleksander Śniegocki,  
Zofia Wetmańska, Joanna Wis-Bielewicz