

NARODOWY BANK POLSKI

Economic Analysis and Research Department

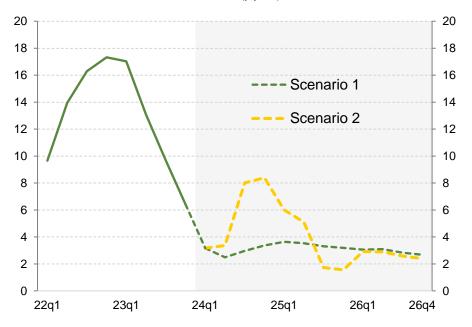
### Inflation and economic growth projection of Narodowy Bank Polski based on the NECMOD model

Warsaw / 11th March 2024 r.





# The inflation trajectory in the March projection is heavily influenced by forthcoming legal amendments that will impact energy and food prices.



#### CPI inflation (y/y, %)

**Scenario 1** – extension of the shielding measures reducing energy and food prices until the end of the projection horizon.

Scenario 2 – reinstatement of the 5% VAT rate on staple food products from April this year and a complete unfreezing of electricity and gas prices for households from 2024 Q3.

| CPI, y/y, % | 2022 | 2023 | 2024 | 2025 | 2026 |
|-------------|------|------|------|------|------|
| Scenario 1  | 14.4 | 11.4 | 3.0  | 3.4  | 2.9  |
| Scenario 2  | 14.4 | 11.4 | 5.7  | 3.5  | 2.7  |



#### Outline:

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Projection 2024 – 2026

Economic conditions

Economic perspectives

- **Projection 2024-2026**
- Economic conditions abroad

Uncertainty

abroad

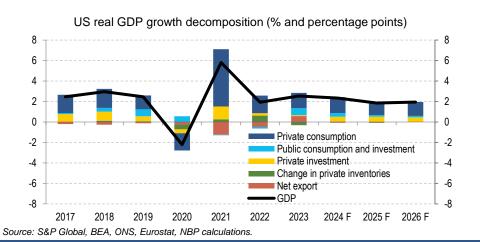
for Poland Inflation

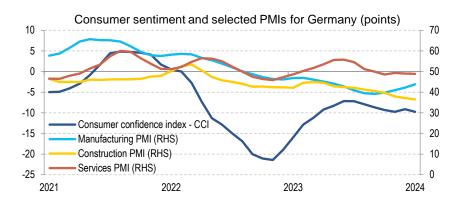


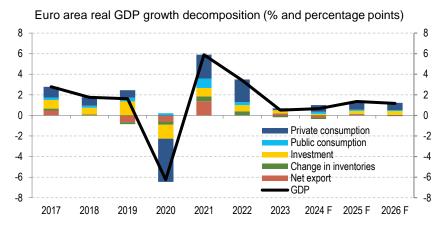
#### Slightly weaker-than-expected rebound in Eurozone growth in 2024-2025. Soft-landing scenario in the US

| GDP growth in the main economies – NBP forecast (%) |      |                        |                        |      |  |  |  |  |  |  |
|---|------|------------------------|------------------------|------|--|--|--|--|--|--|
|   | 2023 | 2024                   | 2025                   | 2026 |  |  |  |  |  |  |
| Euro area   | 0.5  | <mark>0.7</mark> (1.1) | <mark>1.3</mark> (1.4) | 1.2  |  |  |  |  |  |  |
| Germany   | -0.1 | <mark>0.2</mark> (0.9) | <b>1.2</b> (1.3)       | 1.0  |  |  |  |  |  |  |
| United Kingdom                                      | 0.1  | <mark>0.3</mark> (0.5) | 1.1 (1.1)              | 1.4  |  |  |  |  |  |  |
| USA   | 2.5  | 2.3 (1.3)              | 1.9 (1.8)              | 1.9  |  |  |  |  |  |  |
| China   | 5.2  | 4.8 (4.5)              | 4.5 (4.4)              | 4.0  |  |  |  |  |  |  |

Values from the November projection are given in brackets (seasonally adjusted). Indicators with values higher than in the November projection are marked green, and indicators with lower values are marked red.

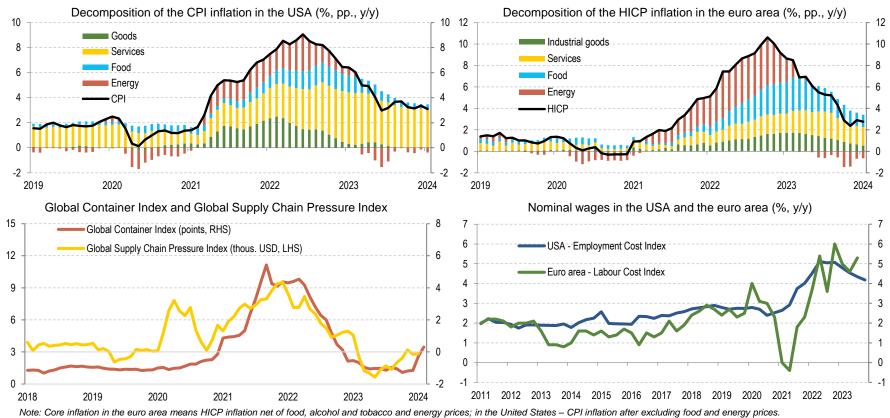








# Between 2024 and 2026, inflation will decline, while being constrained by the persistence of service price inflation.



Source: BLS, Eurostat, Refinitiv, FRBNY, Datastream.



#### Outline:

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Projection 2024 – 2026

Economic conditions

Economic perspectives

### **Projection 2024-2026**

Economic perspectives for Poland

Uncertainty

abroad

for Poland

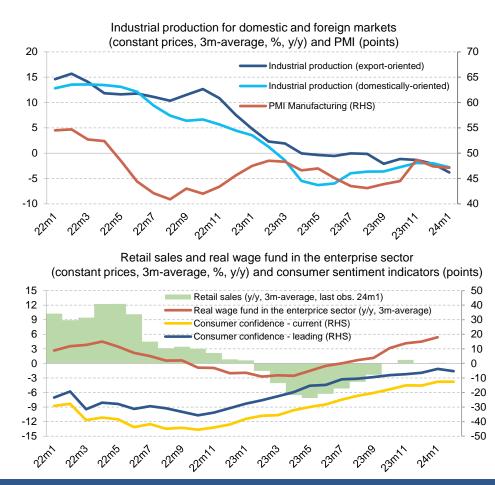
Inflation



### Gradual recovery of economic activity in H2 2023

|  | 23    | q3     | 23    | q4     | 23q4<br>Statistics<br>Poland<br>(29.02.2024) |
|--|-------|--------|-------|--------|--|
| GDP (y/y, %)                             | 0.5   | (0.4)  | 1.0   | (1.3)  | 1.0  |
| Domestic demand (y/y, %)                 | -5.2  | (-2.0) | -3.3  | (-0.4) | -2.3   |
| Household consumption (y/y, %)           | 0.8   | (-1.4) | 0.3   | (-0.7) | -0.1   |
| Public consumption (y/y, %)              | 3.3   | (5.9)  | 5.0   | (13.1) | 5.7  |
| Gross fixed capital form. (y/y, %)       | 7.2   | (7.6)  | 7.7   | (5.8)  | 8.7  |
| Change in inventories contrib. (y/y, pp) | -7.7  | (-3.5) | -6.1  | (-3.3) | -5.4   |
| Net exports contribution (y/y, pp)       | 5.9   | (2.4)  | 4.2   | (1.7)  | 3.3  |
| Exports (y/y, %)                         | -11.0 | (-4.3) | -3.0  | (-3.1) | 2.7  |
| Imports (y/y, %)                         | -20.3 | (-8.2) | -10.5 | (-6.8) | -2.8   |

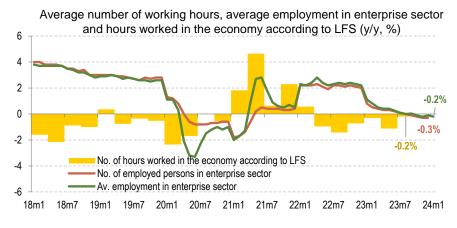
Values from the November projection are given in brackets (seasonally adjusted). Indicators with values higher than in the November projection are marked green, and indicators with lower values are marked red.

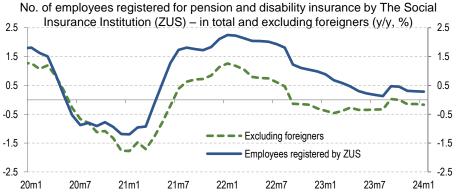


Source: Statistics Poland, IHS Markit, NBP calculations.

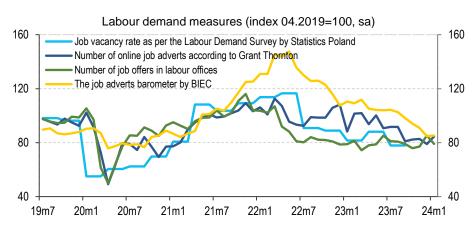


#### **Reduction in labour demand**





Source: Statistics Poland, The Social Insurance Institution (ZUS), NBP Quick Monitoring Survey, BIEC, Grant Thornton, NBP calculations.



Index of expected changes in employment over the next 3 months (Statistics Poland bysiness tendency survey) and in the next quarter (NBP Quick Monitoring Survey) 30 20 10 -10 -10

Statistics Poland business tendency index\*

2023

NBP Quick Monitoring Survey (RHS)

2022

\* Seasonally adjusted data. The index represents the difference between respective shares (in %) of answers indicating an increase and a decrease in expected employment. Statistics Poland data aggregated by the NBP.

2021

2020

2019

-20

-30

2018

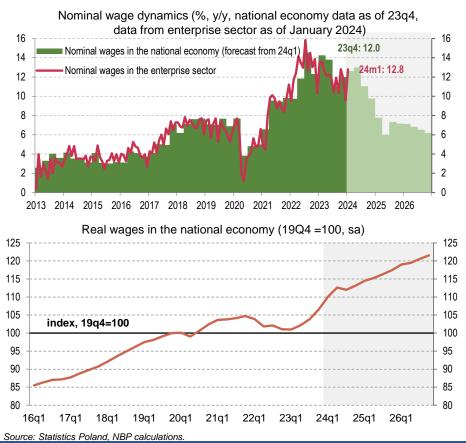
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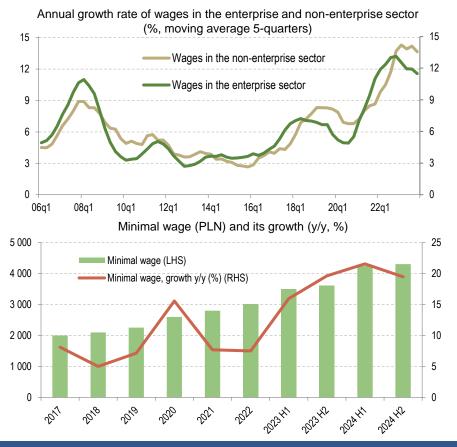
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2024

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# Nominal wage dynamics this year will be sustained by a high increase in the minimum wage and wage hikes in the general government sector; in real terms, wage growth will accelerate significantly.



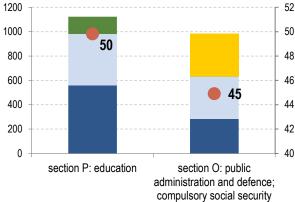




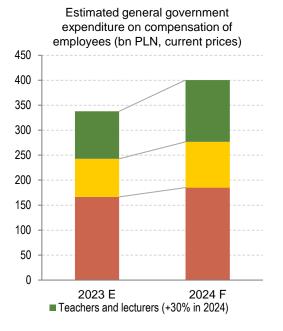
### A significant impact of the wage hikes in the general government sector

Number of employees in the education and public administration section (thous.) and share of employees covered with the highest pay rise in these sections (%) (estimates)

- national defence\*
- private sector
- public sector: other
- public sector: 20/30% rise
- % share of employees covered with pay rise (RHS)

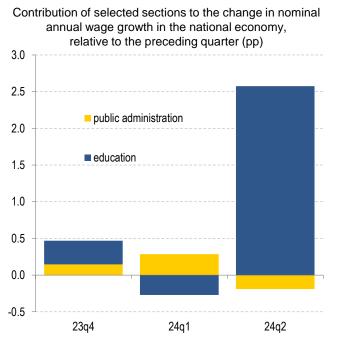


\* The share of employees in section O does not include national defence. National defence is subject to the announced pay rise, but it is not within the subjective scope of the forecast average salary in the national economy.



 Budgetary and extrabudgetary public administration, central level (+20% in 2024)
 Other exceeds a superconductive termination of the superconductive termination of te

Other general government employees



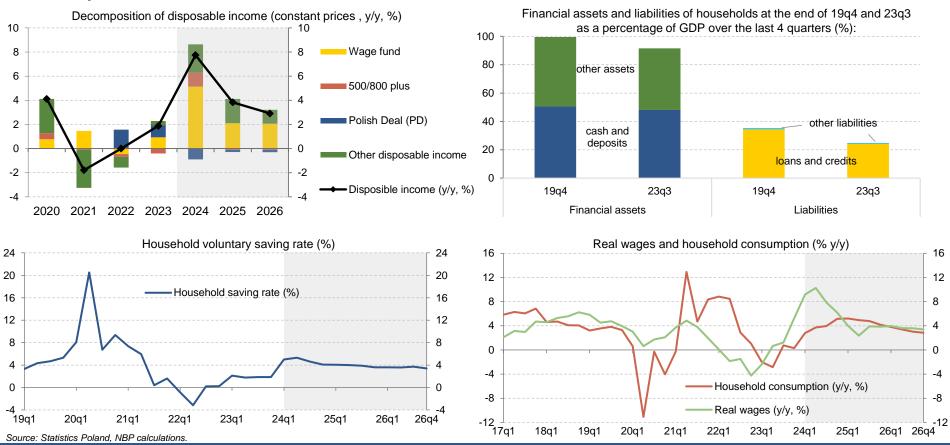
Note: Estimates assuming the payment of rises in education in Q2 this year with compensation from January and the payment of rises in the public administration in Q1 this year.

Source: Statistics Poland, NBP estimates.

E – estimates F – forecast

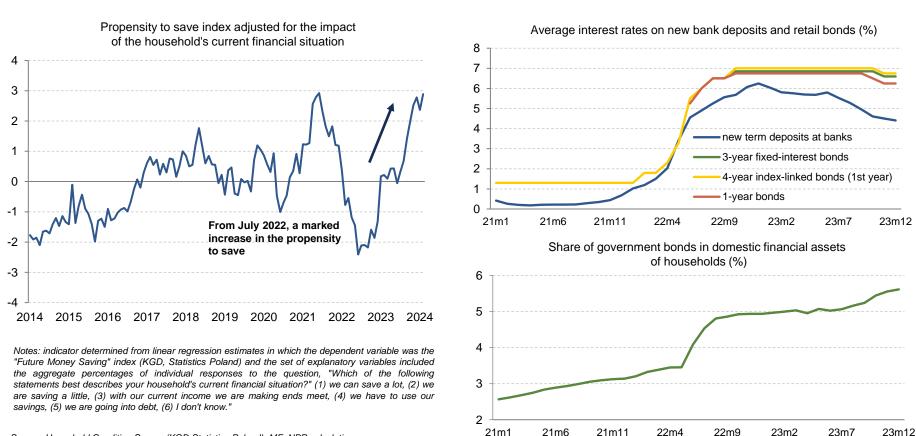


### In 2024, household consumption is expected to accelerate, driven by the favourable growth of real disposable income.





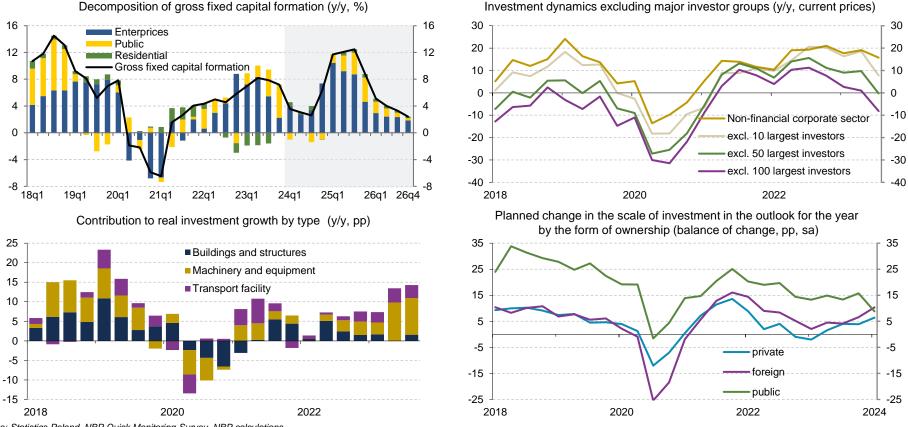
#### A growing propensity to save and an increased interest in bonds among households



Source: Household Condition Survey (KGD Statistics Poland), MF, NBP calculations.



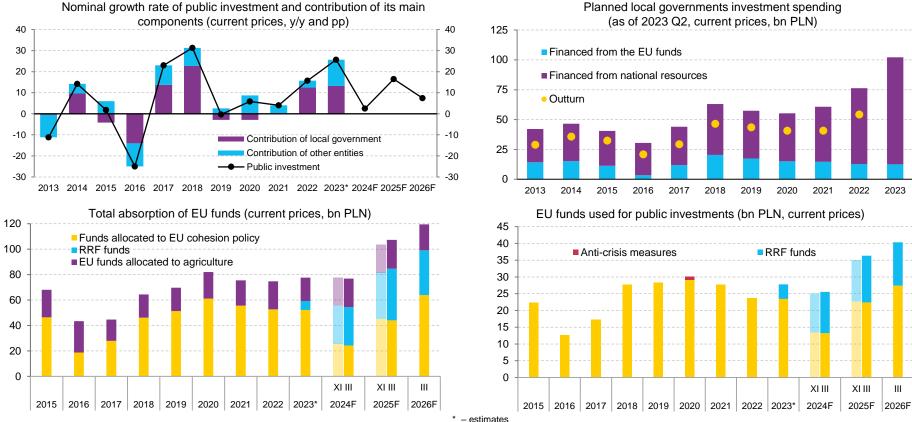
# The robust expansion of gross fixed capital formation in 2023 was driven by substantial investments from large companies, particularly in the transport and energy sectors.



Source: Statistics Poland, NBP Quick Monitoring Survey, NBP calculations.

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# Following a substantial rise in local government investment in 2023, public investment expected to slow down in 2024 due to the initial phase of the new EU perspective

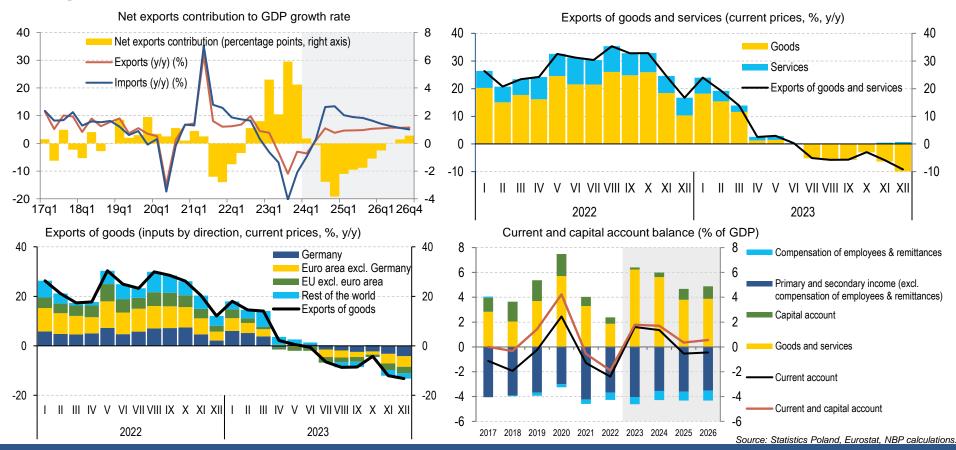


Source: Statistics Poland, Eurostat, MF, MFiPR, NBP calculations. All values presented in nominal terms.

F – forecast

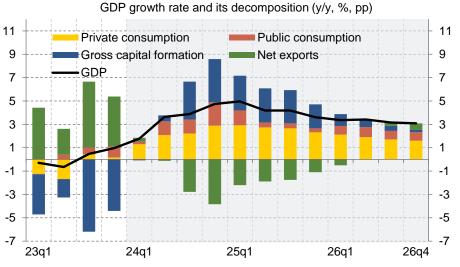


# After a historically high outturn in 2023, the contribution of net exports to GDP growth turns negative again in 2024-2025.

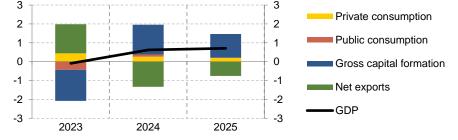




# After a marked slowdown in 2023, growth rebounds in subsequent years, slightly stronger than in the November round.



Decomposition of changes in GDP growth rate between projection rounds (y/y, pp)



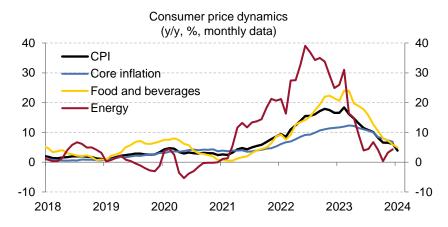
Factors determining domestic activity over the projection horizon:

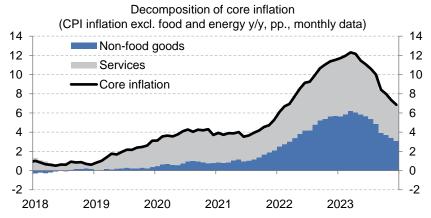
- *î* receding impact of supply shocks on global energy commodity markets
- û fiscal measures to increase household disposable income
- - **î** limited recovery in Poland's external environment
  - I restrictive monetary policy, assuming rates remain unchanged

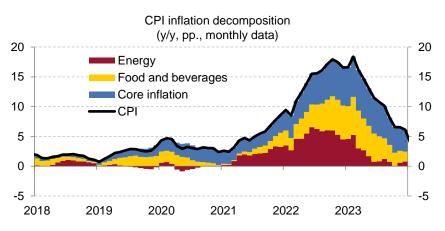
| GDP, y/y, %   | 2022 | 2023 | 2024 | 2025 | 2026 |
|---------------|------|------|------|------|------|
| March 2024    | 5.3  | 0.2  | 3.5  | 4.2  | 3.3  |
| November 2023 | 5.3  | 0.3  | 2.9  | 3.5  | -    |



### A marked decline in CPI inflation at the turn of 2023-2024







| Inflation in 2023 compared to the November projection |
|---|
| (y/y, %)  |

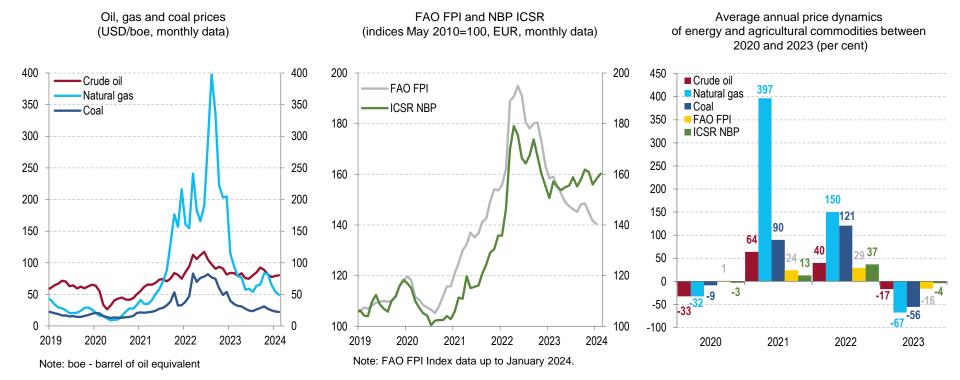
| y/y, %                  | 23q3 | 23  | 8q4   | 2023 |        |  |
|-------------------------|------|-----|-------|------|--------|--|
| CPI inflation           | 9.7  | 6.4 | (6.7) | 11.4 | (11.4) |  |
| Core inflation          | 9.7  | 7.4 | (7.6) | 10.1 | (10.1) |  |
| Food prices inflation   | 12.9 | 7.1 | (7.0) | 15.1 | (15.0) |  |
| Energy prices inflation | 5.1  | 2.6 | (3.6) | 9.8  | (10.0) |  |

Values from the November projection are given in brackets (seasonally adjusted data). Indicators with values higher than in the November projection are marked green, whereas indicators with lower values are marked red.

Source: Statistics Poland data, NBP calculations.



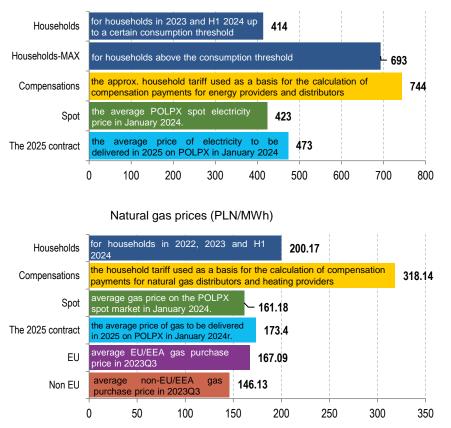
#### Global commodity prices have fallen from their record levels in 2022.





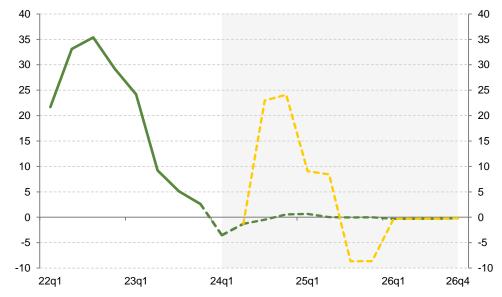
#### Uncertainty over the energy price path after June 2024

#### Electricity prices (PLN/MWh)



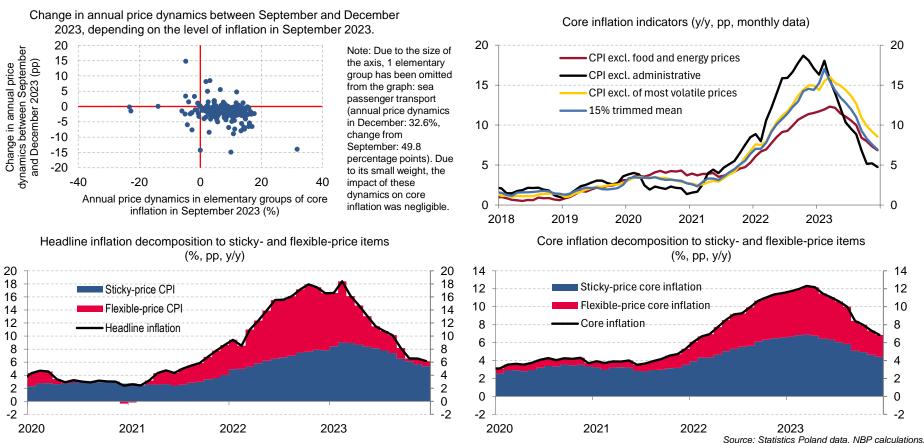
Energy price inflation – 2 scenarios (y/y) (%)

- --- Scenario 1 extension of shielding measures reducing energy prices until the end of the projection horizon
- Scenario 2 complete unfreezing of electricity and gas prices for households from 2024 Q3





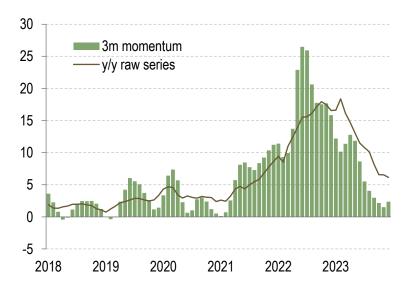
### The decline in price dynamics applies to a broad range of goods and services in the basket of core inflation. The increasing contribution of rigid components to the evolution of CPI inflation.



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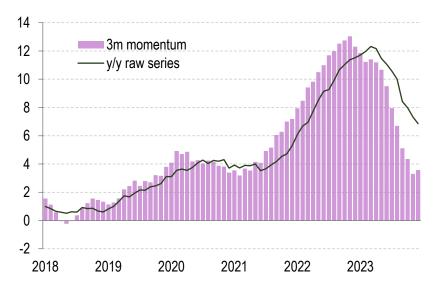
### A marked slowdown in the momentum of CPI inflation to 2.4% y/y and core inflation to 3.6%



CPI inflation and annualised momentum

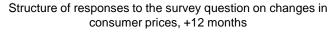
3m (% y/y)

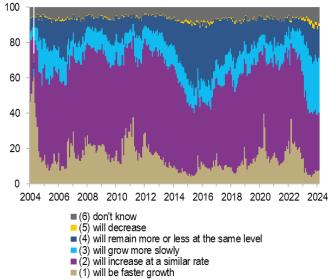
#### Core inflation (CPI excluding food and energy prices) and annualised momentum 3m (% y/y)



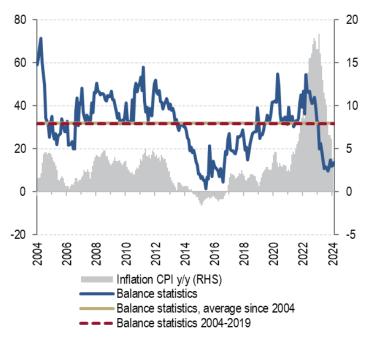


# The increase in inflation only temporarily disrupted consumer inflation expectations – the adjustment process in the structure of survey responses to the inflation decline was rapid and occurred preemptively.





Content of the survey question: "Comparing to the last 12 months, what are your projections of changes in consumer prices (goods and services) in the next 12 months? (1) will be faster growth, (2) will increase at a similar rate, (3) will grow more slowly, (4) will remain more or less at the same level, (5) will decrease, (6) don't know". The percentages of respondents selecting the above responses are denoted as E1, E2, E3, E4, E5 and E6 respectively.

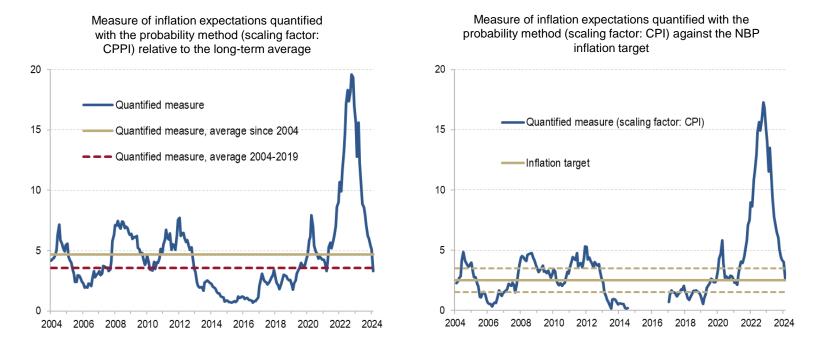


Note: The balance statistic is calculated by the Statistics Poland according to the formula: E1+0.5\*E2-0.5\*E4-E5, where E1, E2, E3, E4 and E5 are the percentages of respondents selecting the subsequent response options to the survey question.

Consumer inflation expectations balance statistics, +12 months



### The decline in consumer inflation expectations is confirmed by experimental measures of expectations.

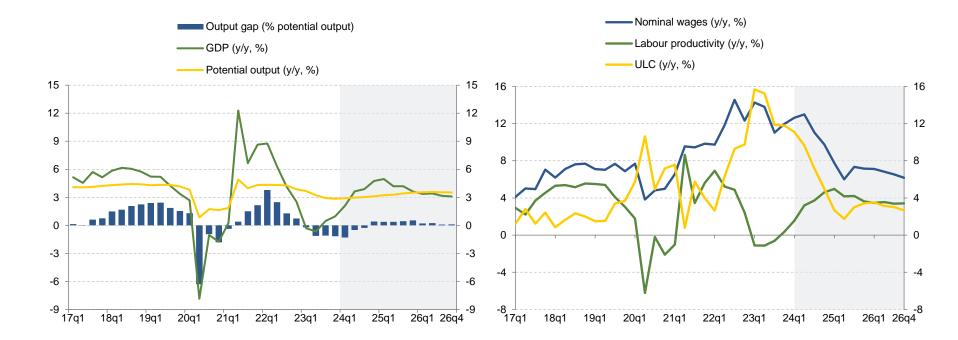


Note: The indicators presented are experimental. For details on the quantification of the measure in the left graph and relevant references, see <u>NBP Working Paper No. 249</u>.

The data presented in the left graph for February 2024 are a preliminary estimate of the quantified measure.

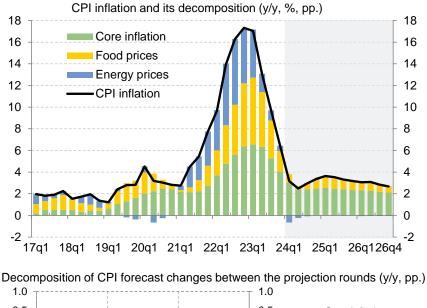


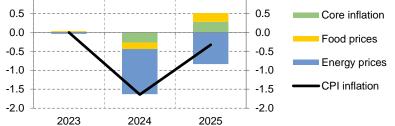
# Disinflation curbed by the output gap returning to positive values and, in the shorter projection horizon, also by high wage dynamics





### CPI inflation within the range of deviations from the NBP inflation target for most of the forecast period





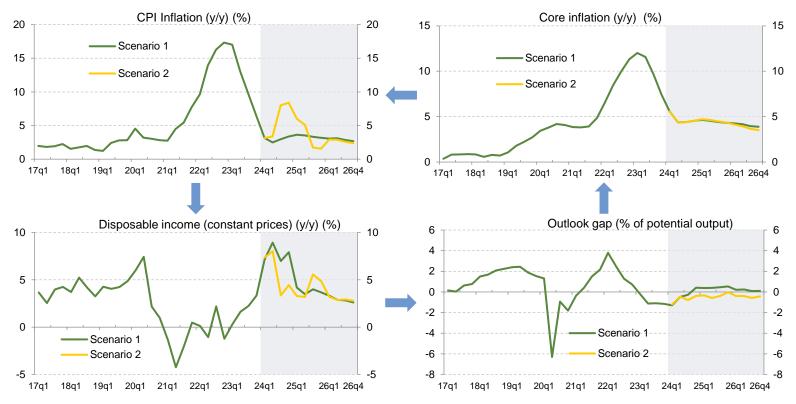
The inflation path over the projection horizon will be affected by:

- It the fall in energy and agricultural commodity prices
- Iow inflation in the Polish economic environment
- A exchange rate appreciation in 2023Q4
- A expected decline in wage dynamics
- the assumption that the government will maintain the antiinflation shielding measures (zero VAT on staple food products and the cap on electricity and gas prices for households)
- a marked recovery in demand, supported by fiscal measures increasing social transfers and wages
- **î** increased inflation persistence

| CPI, y/y, %   | 2022 | 2023 | 2024 | 2025 | 2026 |
|---------------|------|------|------|------|------|
| March 2024    | 14.4 | 11.4 | 3.0  | 3.4  | 2.9  |
| November 2023 | 14.4 | 11.4 | 4.6  | 3.7  | -    |



#### March forecast - Scenario 1 (central path) vs. Scenario 2



Scenario 1 (central path) – extension of the shielding measures reducing energy and food prices until the end of the projection horizon.

Scenario 2 – the reinstatement of the 5% VAT rate on staple food products from April 2024 and the complete unfreezing of electricity and gas prices for households from 2024 Q3.



#### Outline:

Projection 2024 – 2026

- Economic conditions
   abroad
- Economic perspectives
   for Poland
- Inflation

Uncertainty

### Uncertainty

Risks

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#### Risks

- The impact of the government's fiscal measures in Poland, including the scale and scope of the shielding measures
- The shape of economic policy in the world's major economies
- Geopolitical developments and the scale of armed crises and supply chain disruptions
- The future path of energy commodity prices on world markets

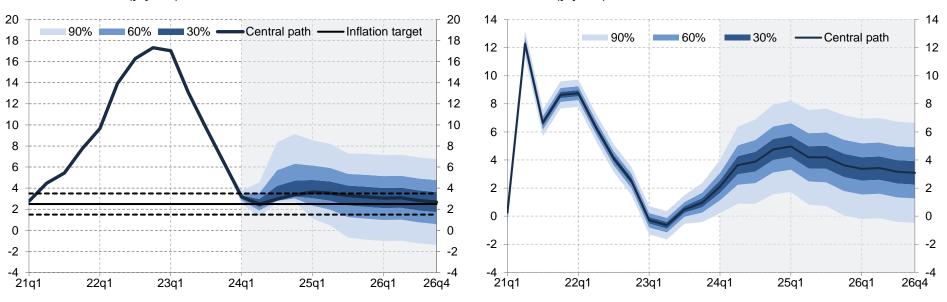
In the March projection horizon there is:

 $\hat{U}$  A higher probability of CPI inflation running above the projection's central path

A close to symmetric distribution of risks to GDP growth.



CPI Inflation (y/y, %)



| CPI<br>y/y, % | below<br>1.5% | below<br>2.5% | below<br>3.5% | below<br>centr.<br>path | within<br>1.5-3.5%<br>range | CPI<br>y/y, % | central<br>path |     | obability<br>erval | GDP<br>y/y, % | central<br>6 path | •   | obability<br>erval |
|---------------|---------------|---------------|---------------|-------------------------|-----------------------------|---------------|-----------------|-----|--------------------|---------------|-------------------|-----|--------------------|
| 2024          | 0%            | 2%            | 32%           | 15%                     | 32%                         | 2024          | 3.0             | 2.8 | 4.3                | 2024          | 3.5               | 2.7 | 4.3                |
| 2025          | 12%           | 26%           | 45%           | 43%                     | 33%                         | 2025          | 3.4             | 2.2 | 5.0                | 2025          | 4.2               | 3.2 | 5.3                |
| 2026          | 25%           | 42%           | 61%           | 50%                     | 36%                         | 2026          | 2.9             | 1.5 | 4.3                | 2026          | 3.3               | 2.0 | 4.5                |

Source: Statistics Poland data, NBP calculations.

GDP (y/y, %)

