



TÜRKİYE CUMHURİYET  
MERKEZ BANKASI

# MAIN ECONOMIC DEVELOPMENTS

Research and Monetary Policy Department

MARCH 2024

ANKARA

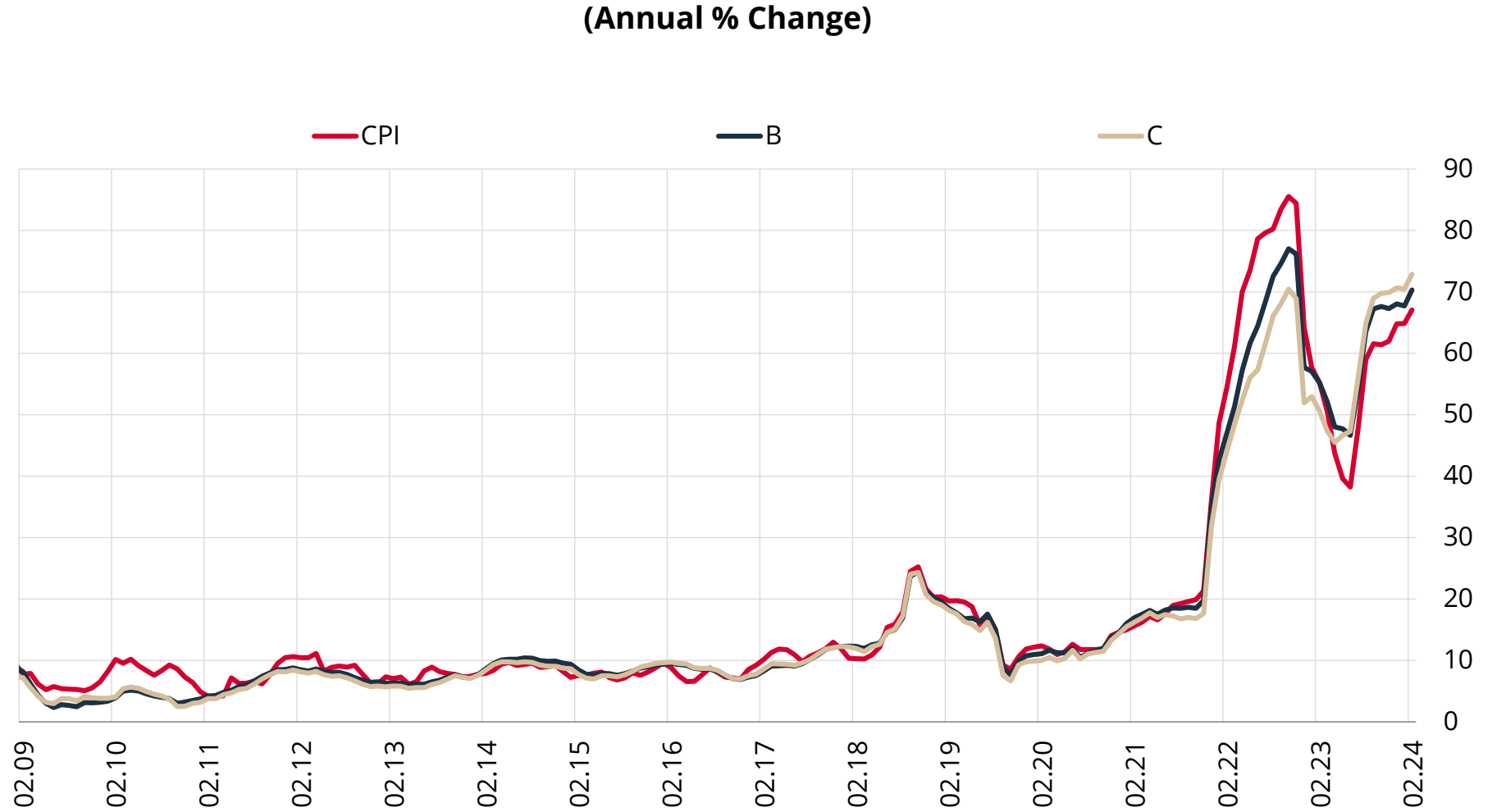


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# INFLATION DEVELOPMENTS

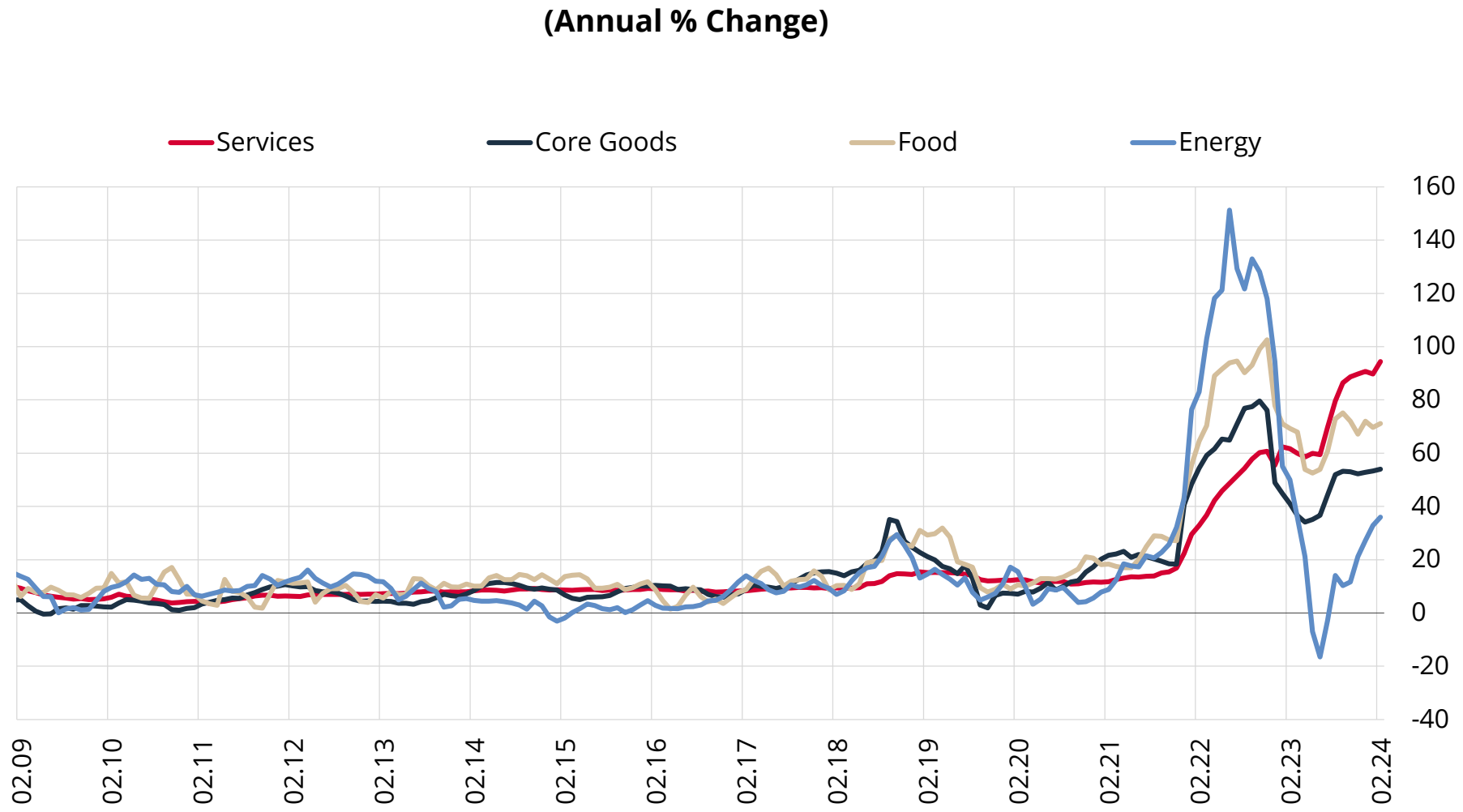
# CPI and Special CPI Indicators



Source: TURKSTAT

Last Observation: February 2024

# CPI and Subgroups



Source: TURKSTAT

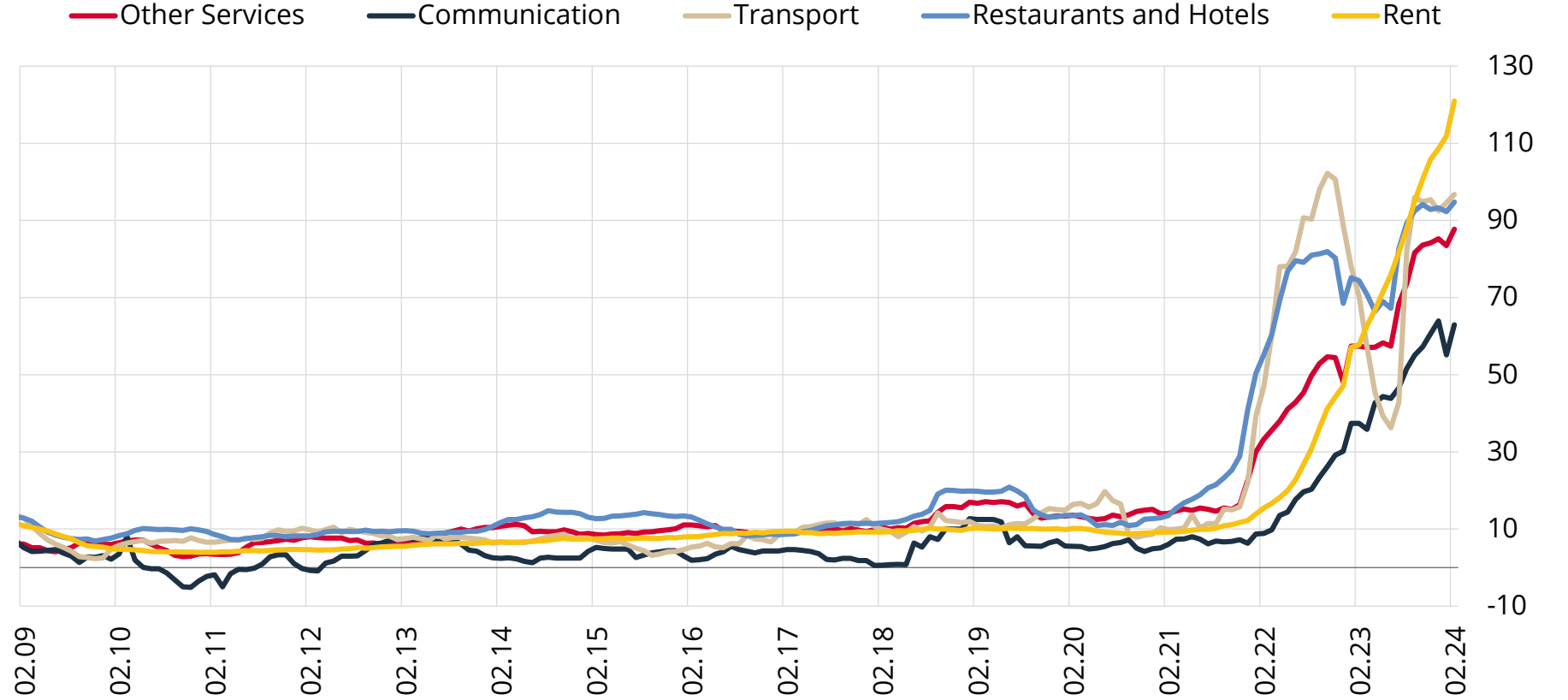
Last Observation: February 2024

Food: Food and alcoholic beverages.

Core goods: Goods excluding food, energy, alcoholic beverages , tobacco and gold.

# Services Inflation

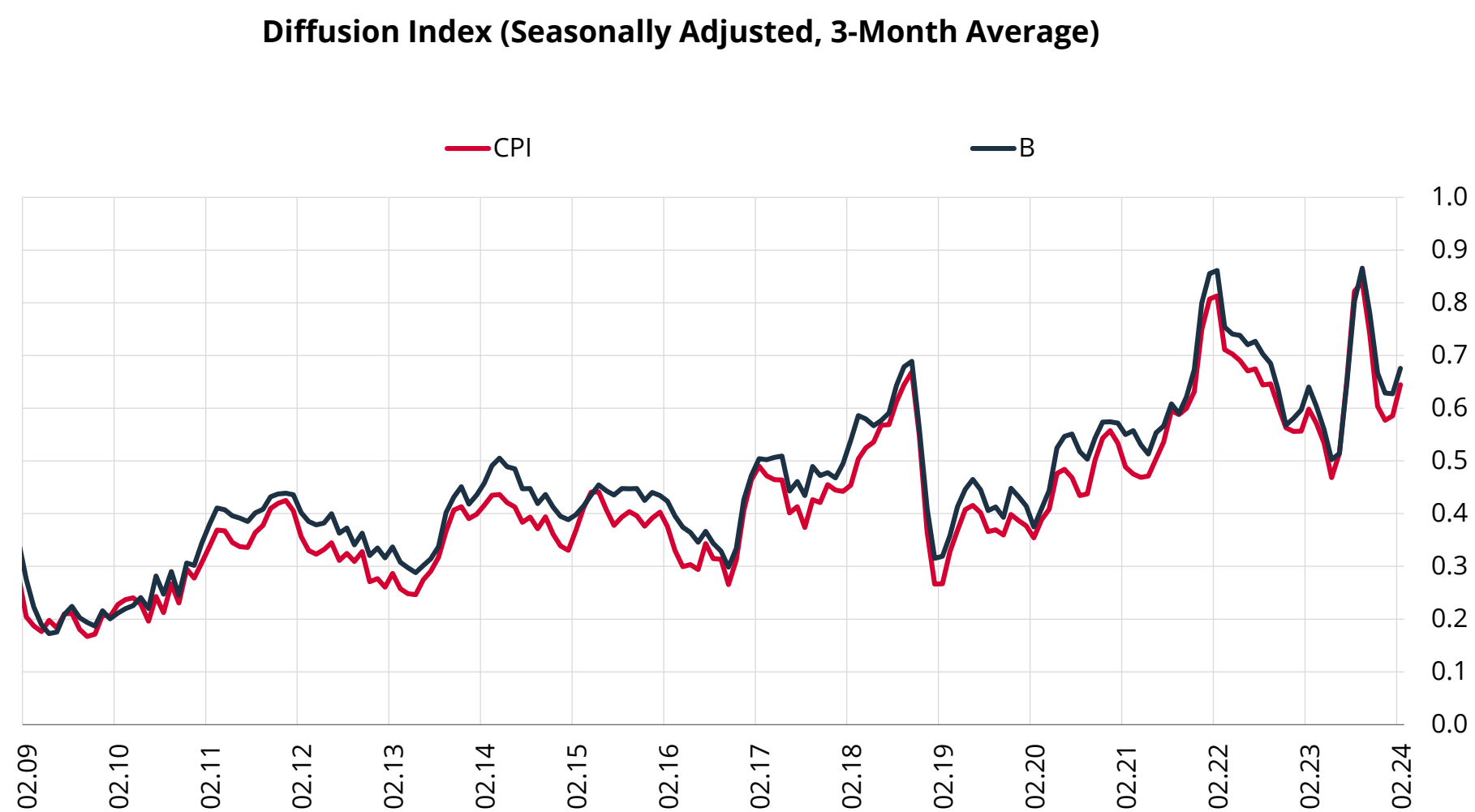
(Annual % Change)



Source: TURKSTAT

Last Observation: February 2024

# Inflation Trend

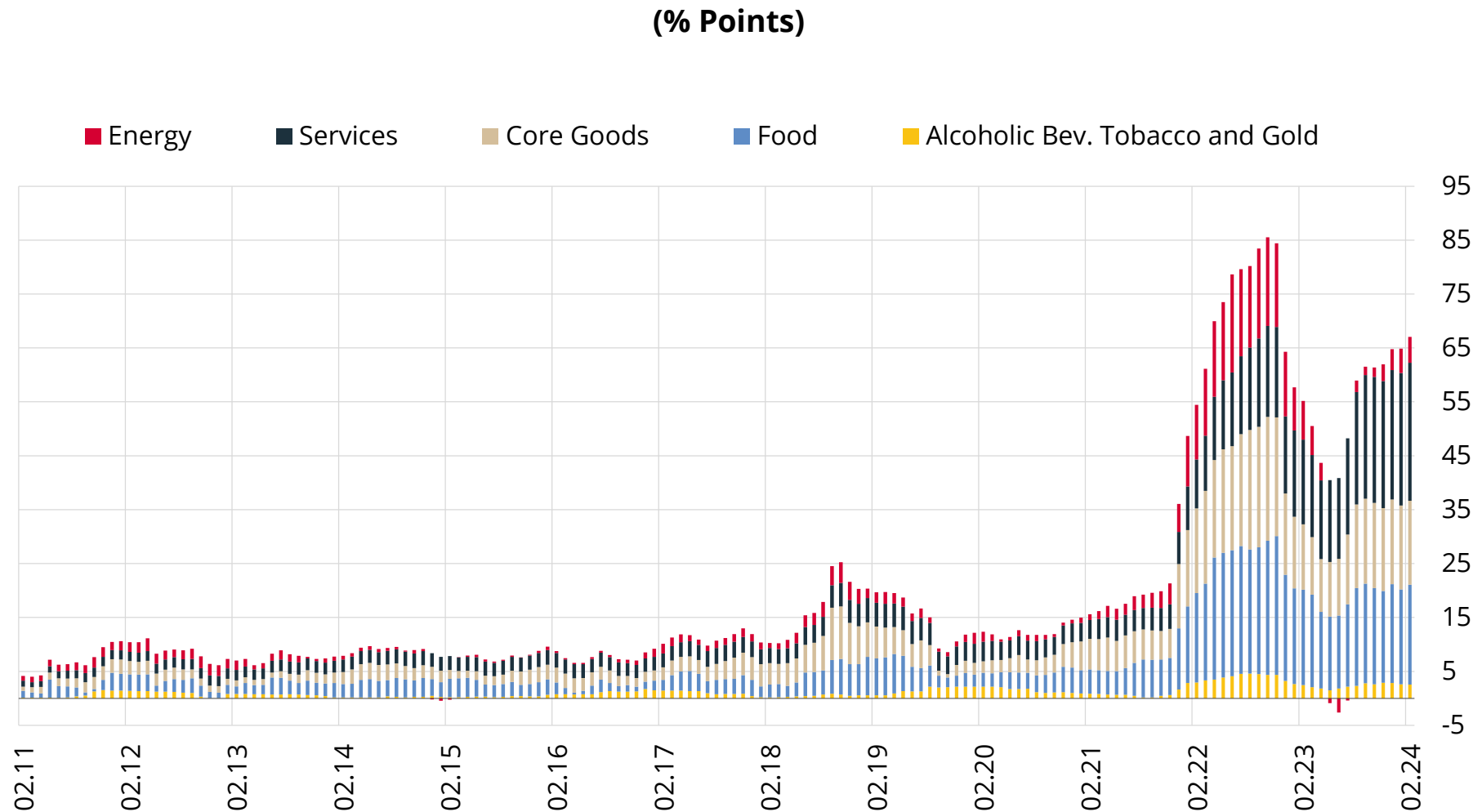


Source: CBRT, TURKSTAT

Last Observation: February 2024

Diffusion index is calculated as the ratio of the number of items with increasing prices minus the number of items with decreasing prices to total number of items within a given month.

# Contribution to Annual Inflation



Source: CBRT, TURKSTAT

Last Observation: February 2024

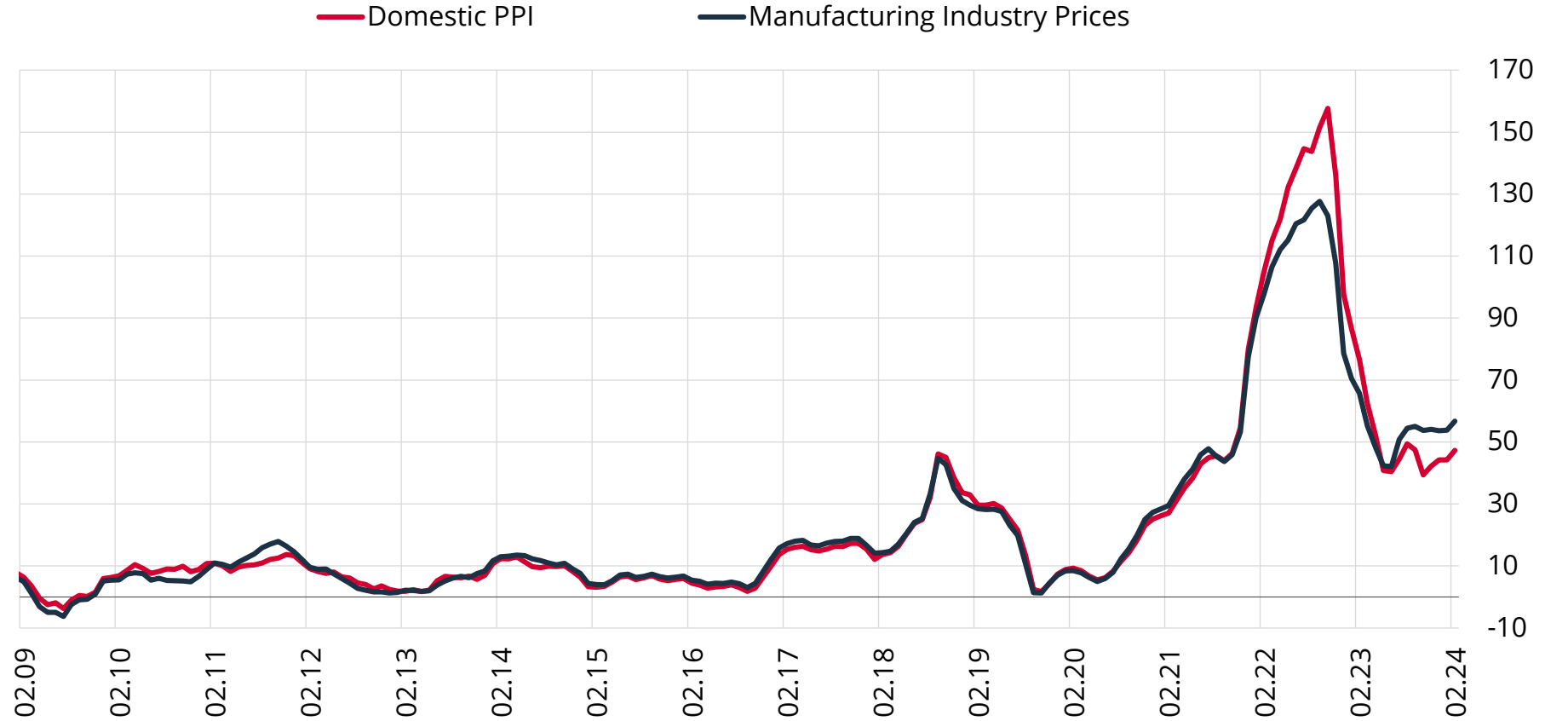
Food: Food and alcoholic beverages.

Core goods: Goods excluding food, energy, alcoholic beverages , tobacco and gold.



# Domestic PPI

(Annual % Change)

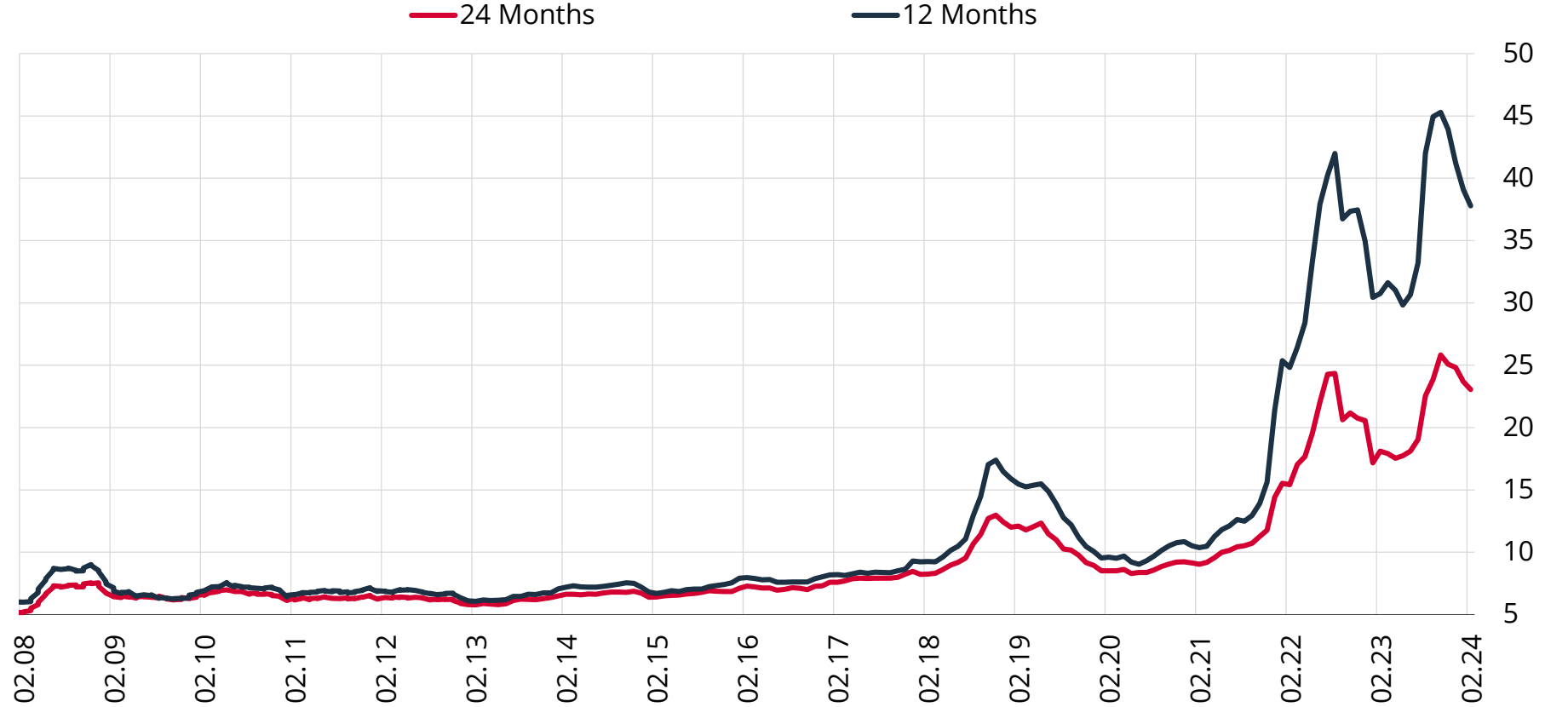


Source: TURKSTAT

Last Observation: February 2024

# Inflation Expectations

(Annual % Change)



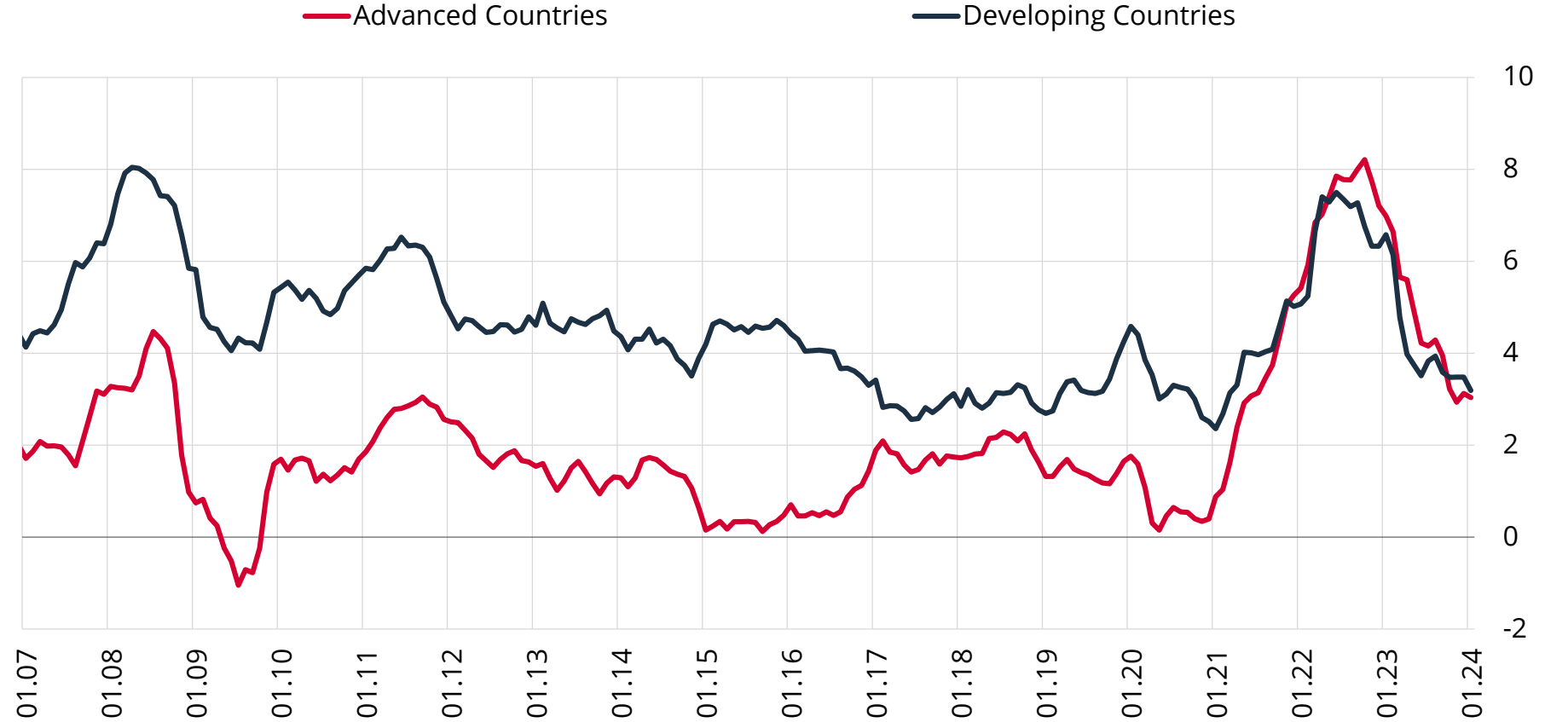
Source: CBRT

Last Observation: February 2024

# INTERNATIONAL DEVELOPMENTS

# Global Inflation

(Annual % Change)

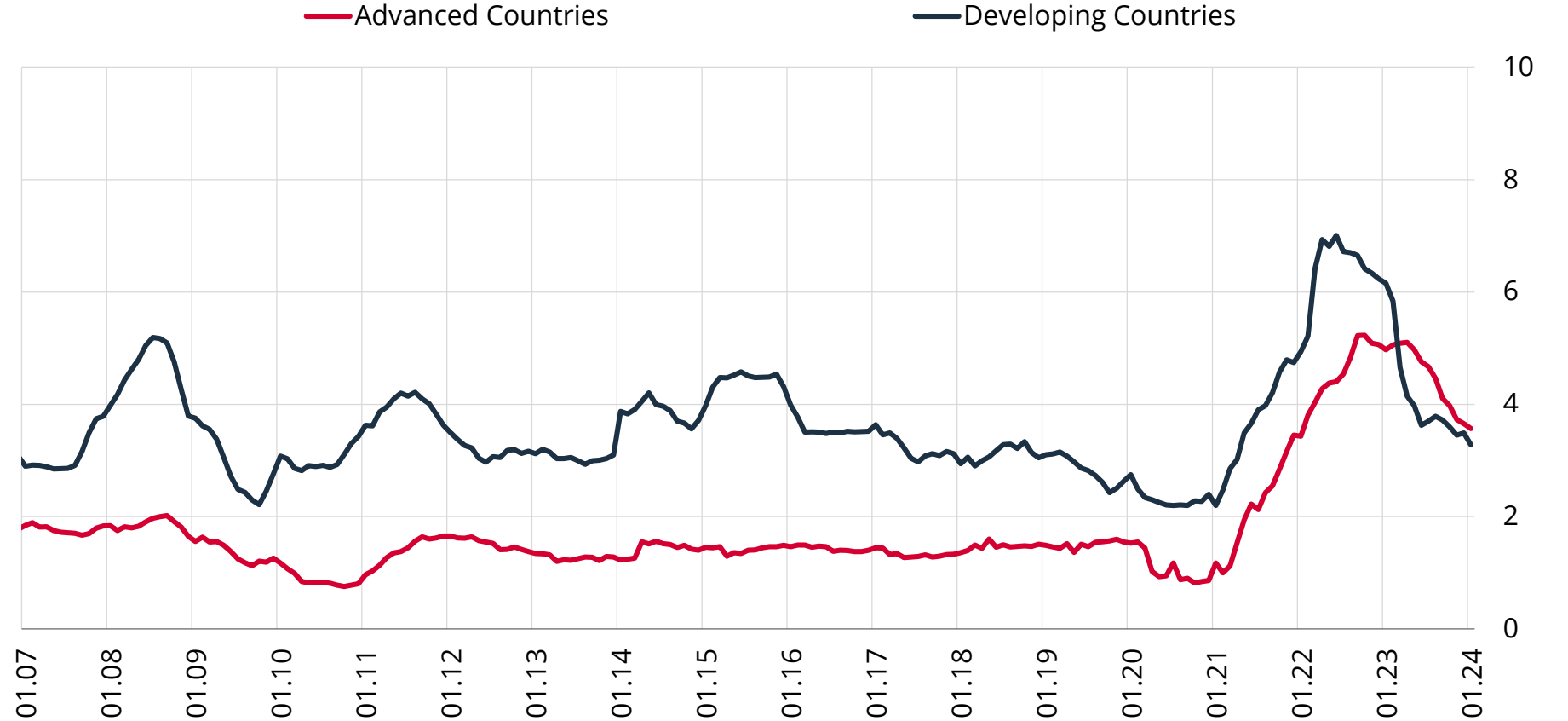


Source: Bloomberg, CBRT

Last Observation: January 2024

# Core Inflation

(Annual % Change)

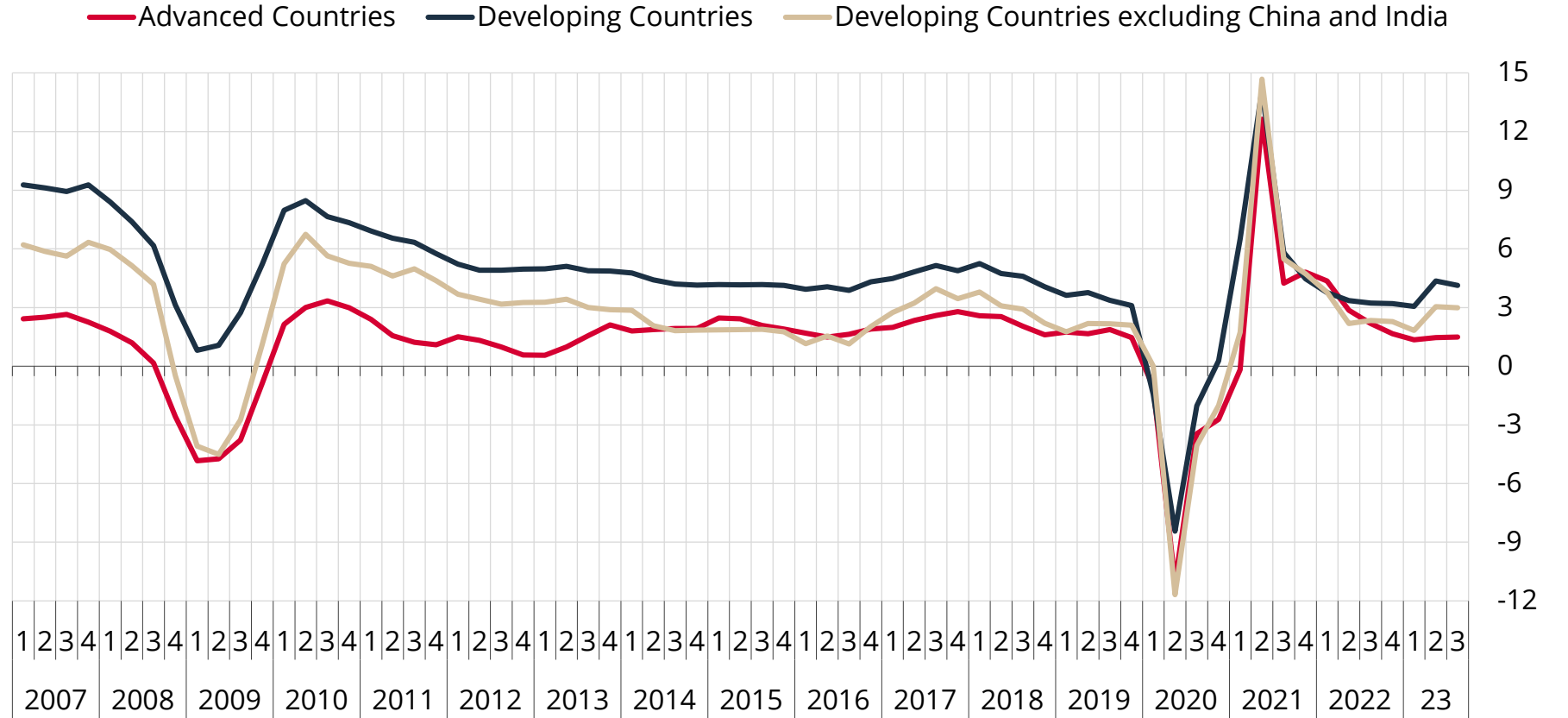


Source: Bloomberg, Datastream, CBRT

Last Observation: January 2024

# Global Growth

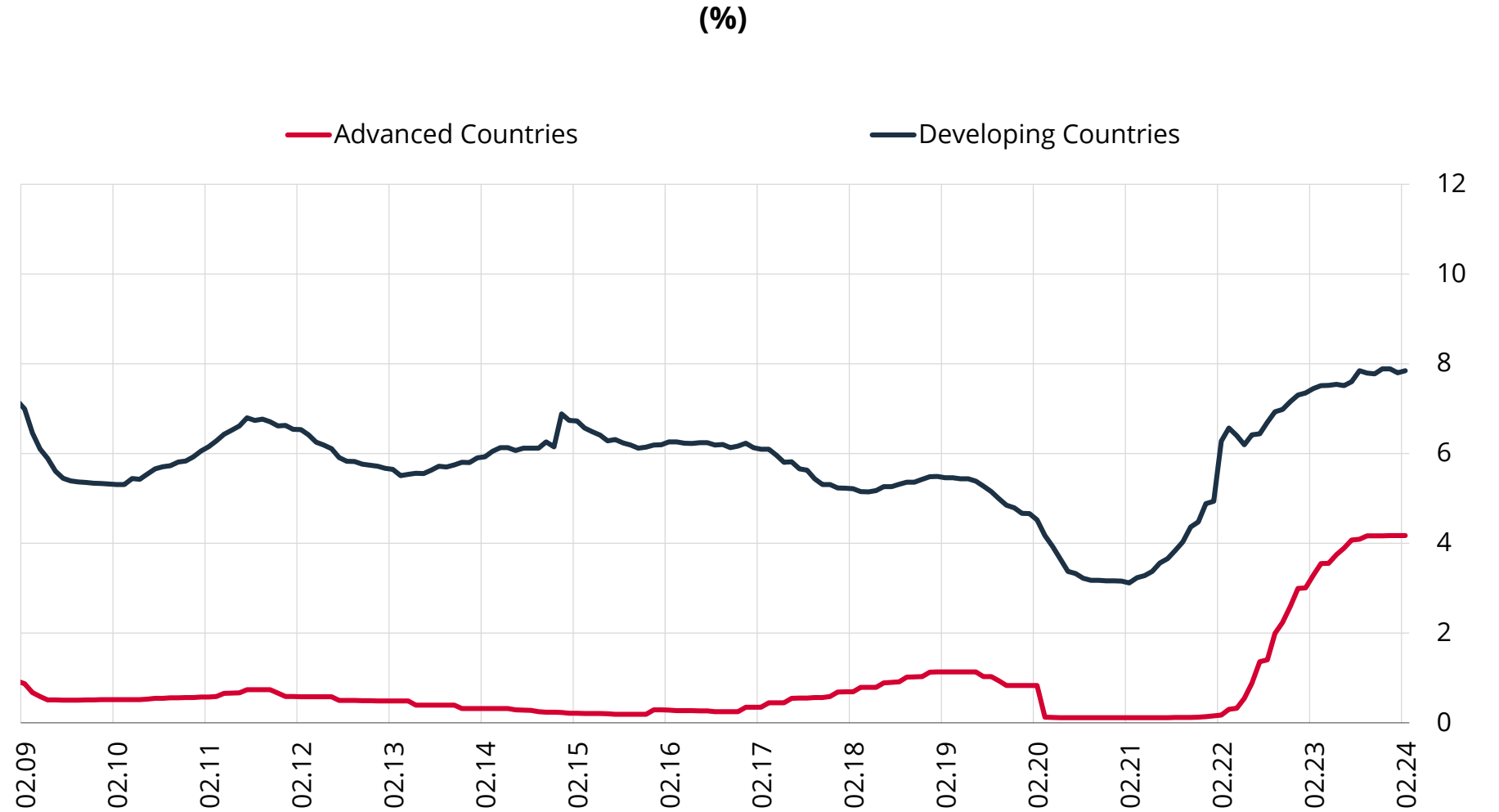
(Annual % Change)



Source: Bloomberg, CBRT

Last Observation: 2023Q3

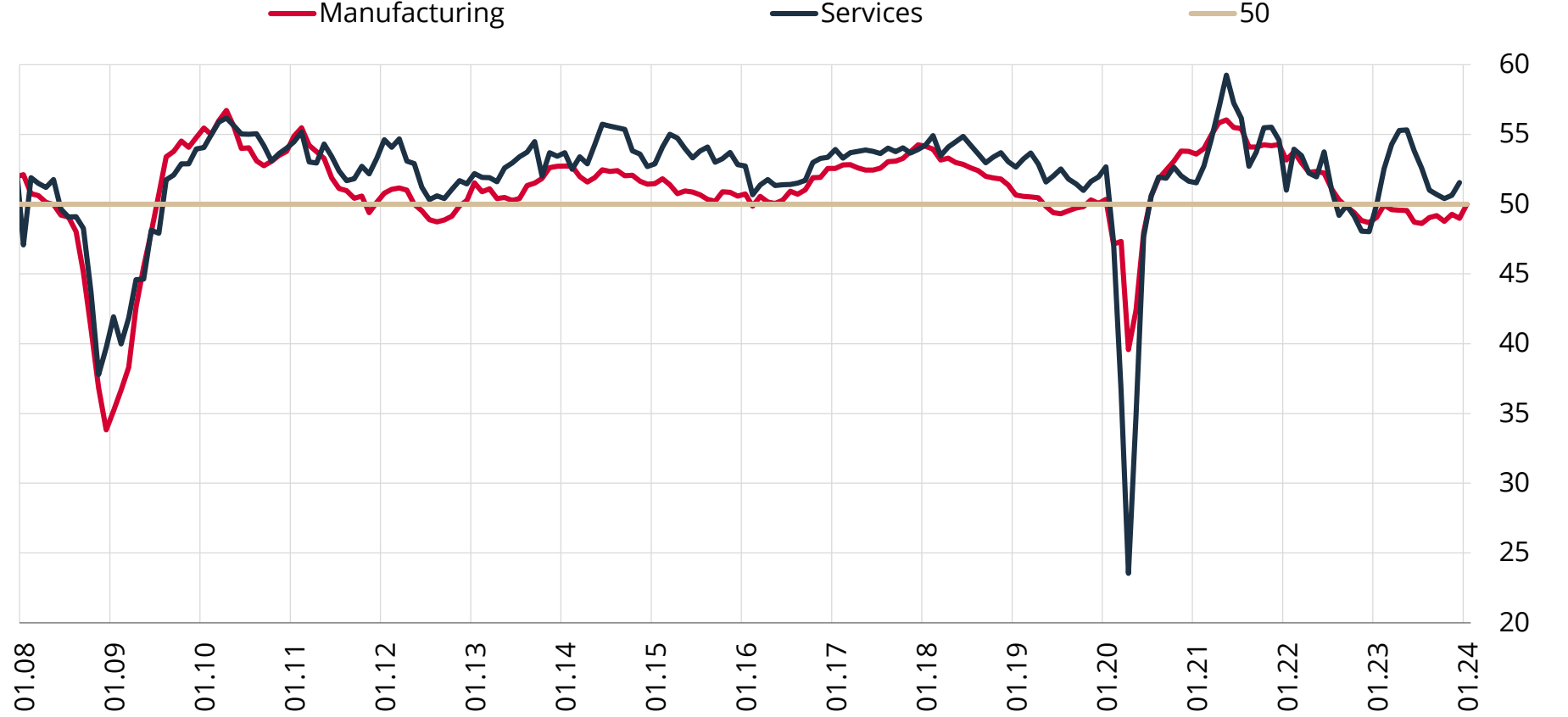
# Global Policy Rates



Source: Bloomberg, CBRT

Last Observation: February 2024

# Markit Global PMI Indices



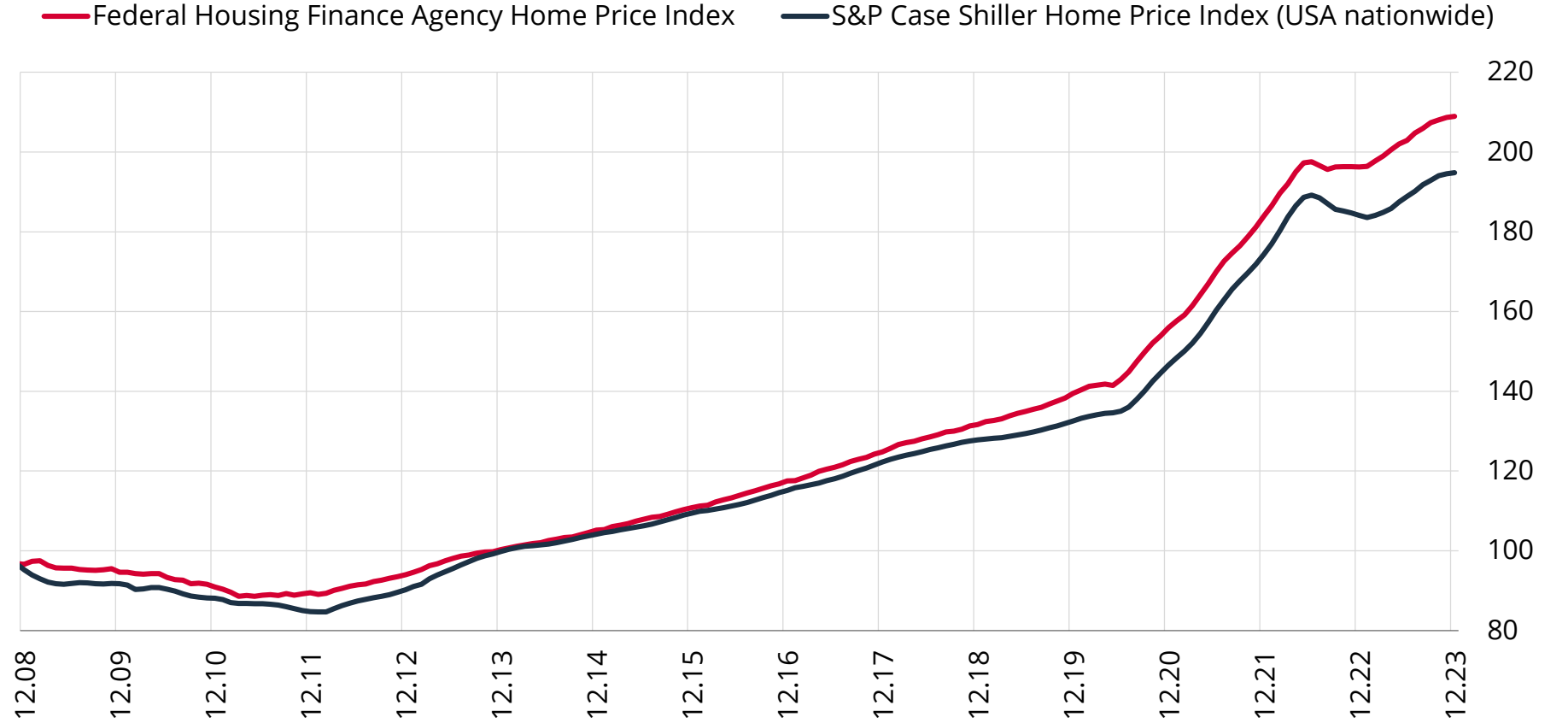
Source: IHS Markit

Last Observation: January 2024



# US House Prices (January 2005 = 100)

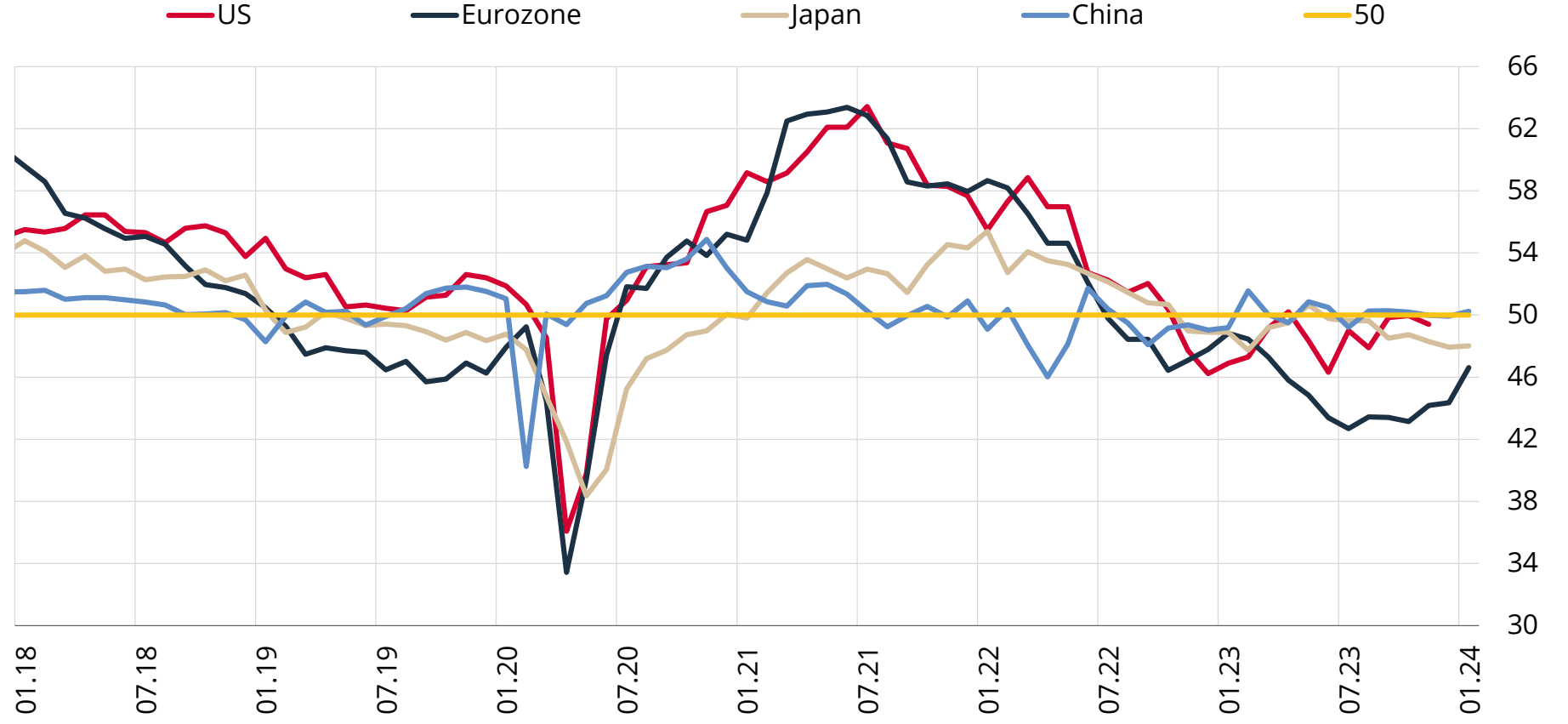
(Seasonally Adjusted)



Source: Bloomberg

Last Observation: December 2023

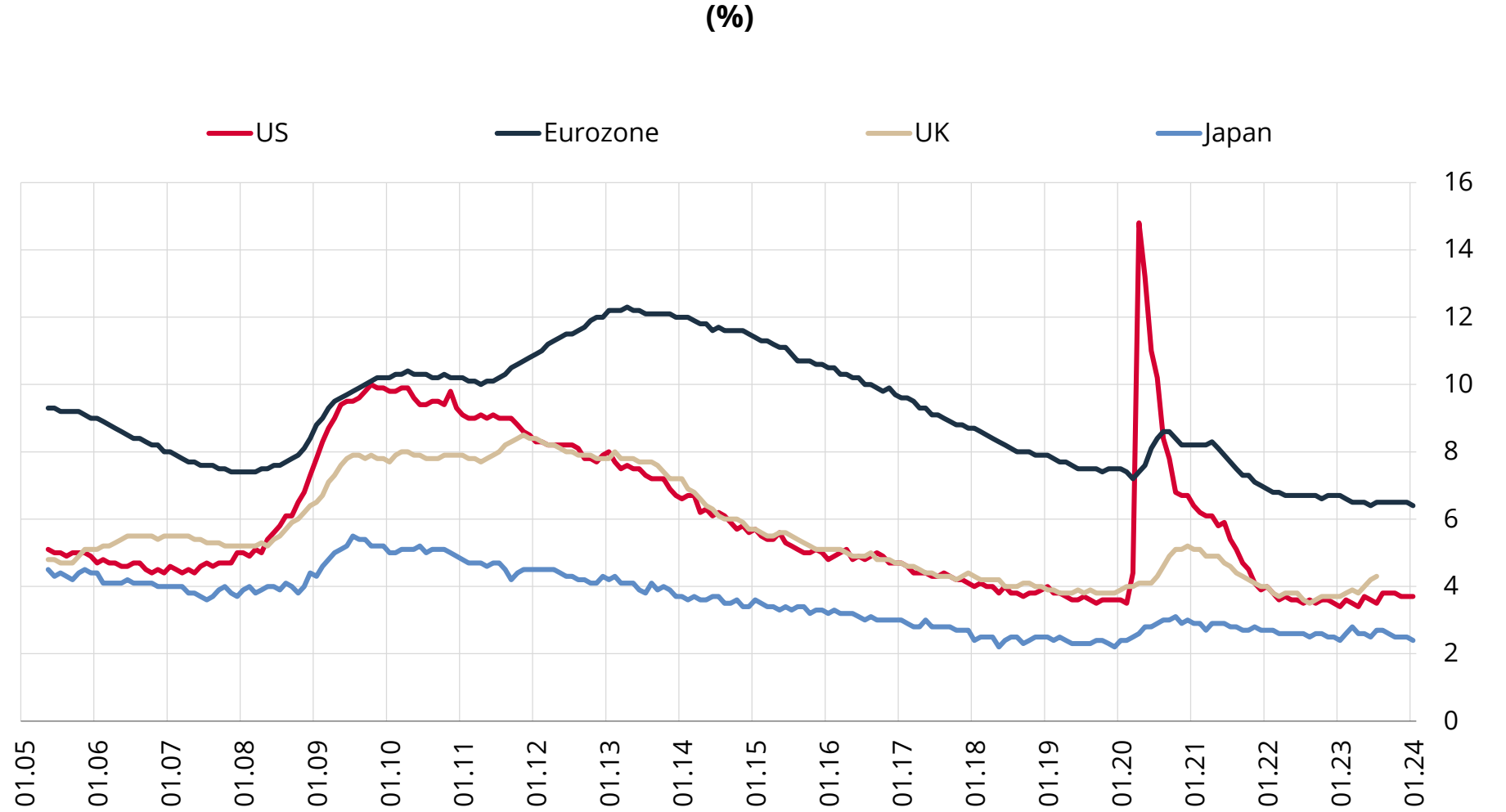
# PMI (Manufacturing)



Source: IHS Markit

Last Observation: January 2024

# Unemployment Rates

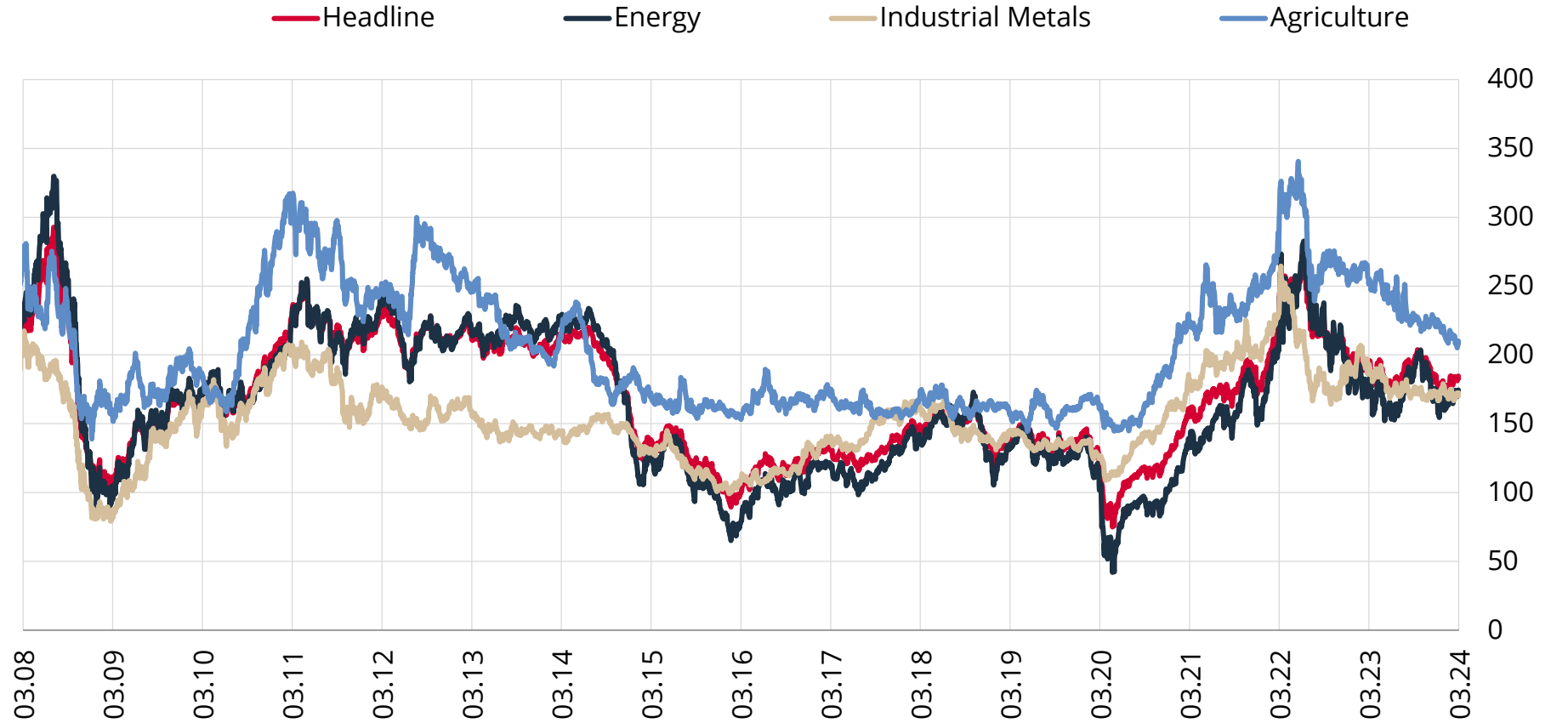


Source: Bloomberg

Last Observation: January 2024

# Commodity Prices S&P-GS Indices

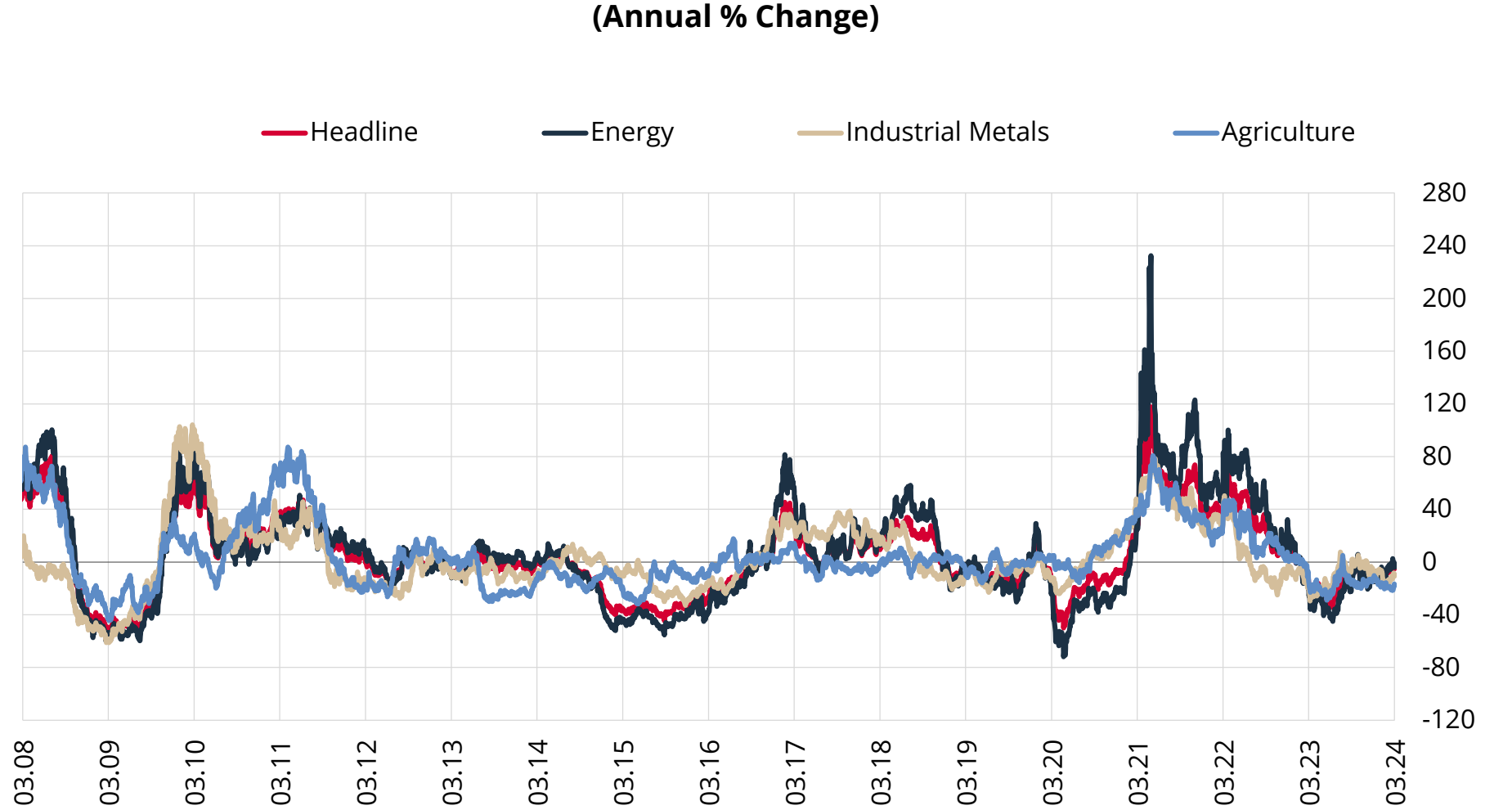
(January 2005 = 100)



Source : Bloomberg

Last Observation: March 1, 2024

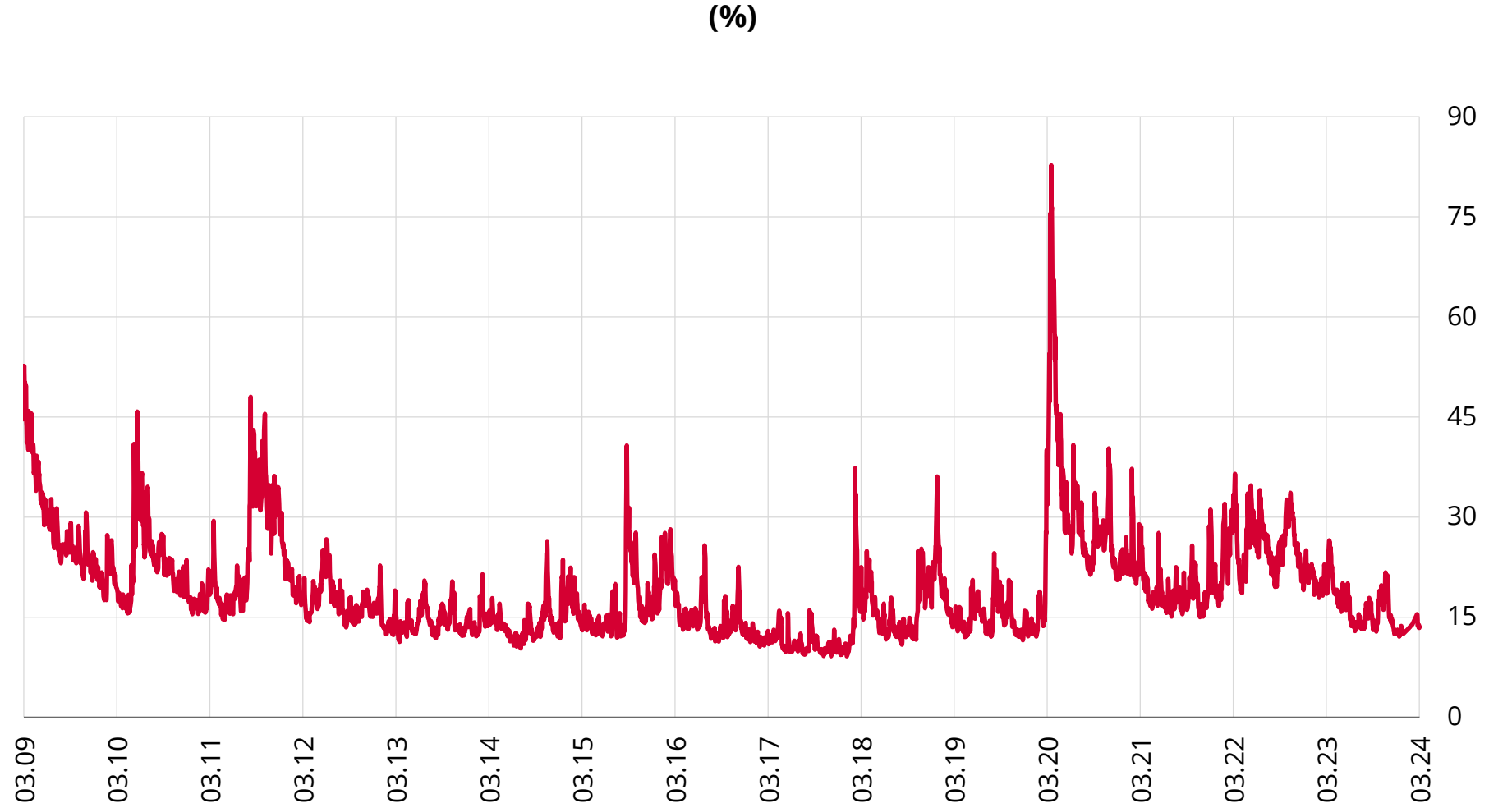
# Commodity Prices S&P-GS Indices



Source : Bloomberg

Last Observation: March 1, 2024

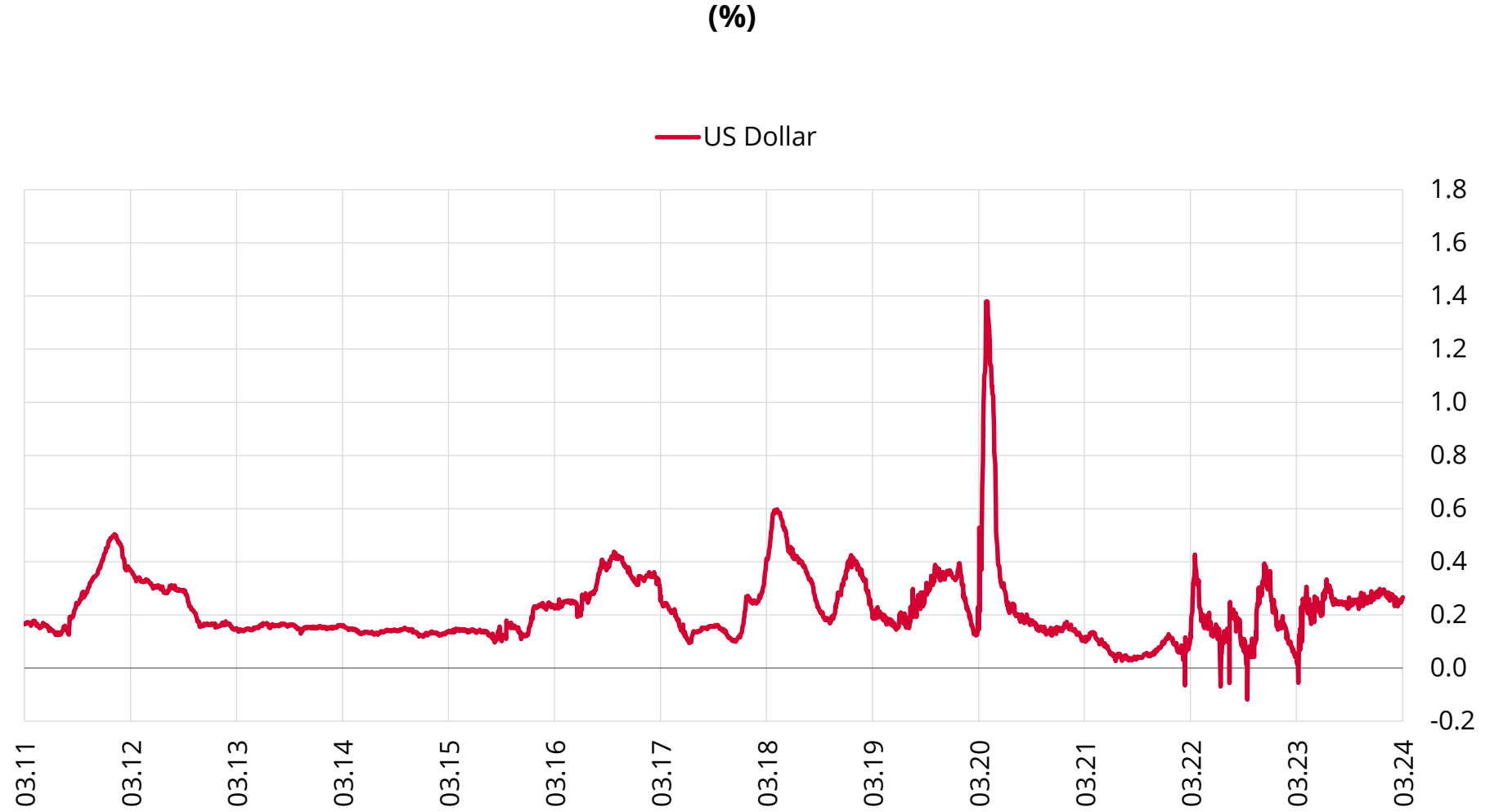
# Risk Appetite (VIX)



Source: Bloomberg

Last Observation: March 1, 2024

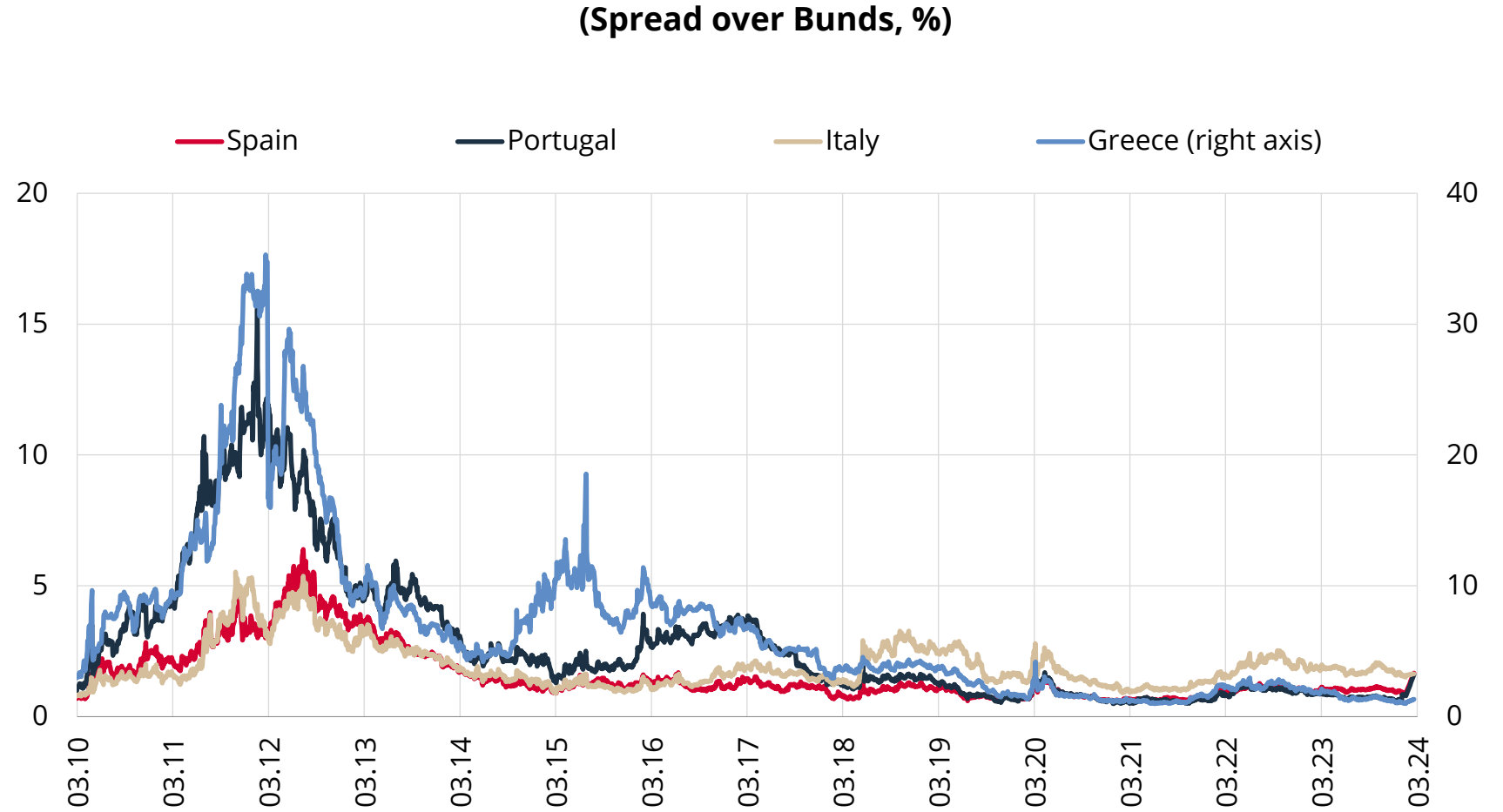
# Spread (OIS Spread)



Source: Bloomberg

Last Observation: March 1, 2024

# GIIPS Countries: Yield Spread



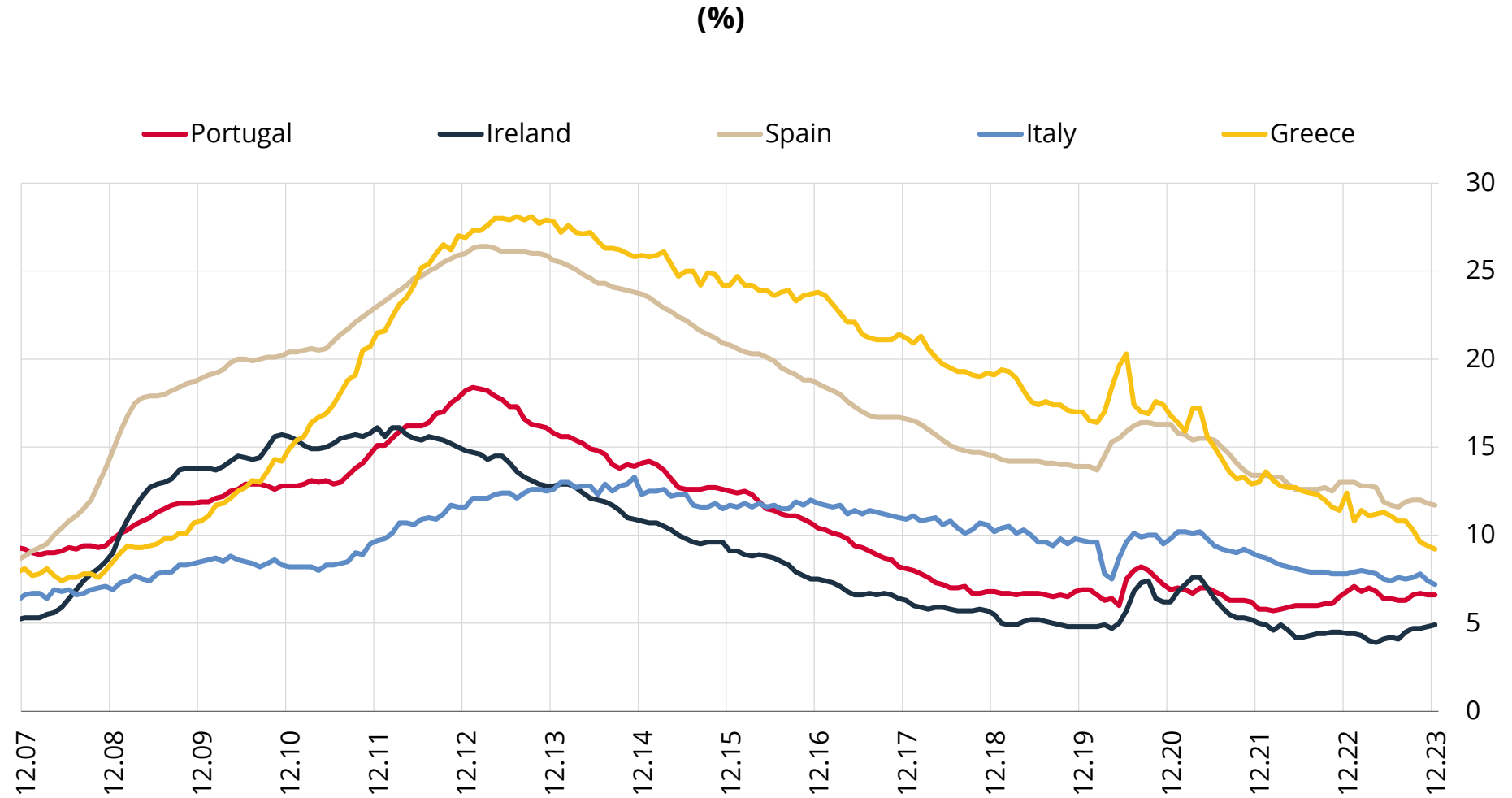
Source: Bloomberg

Last Observation: March 1, 2024

GIIPS: Greece, Italy, Portugal, Spain.



# GIIPS Countries: Unemployment



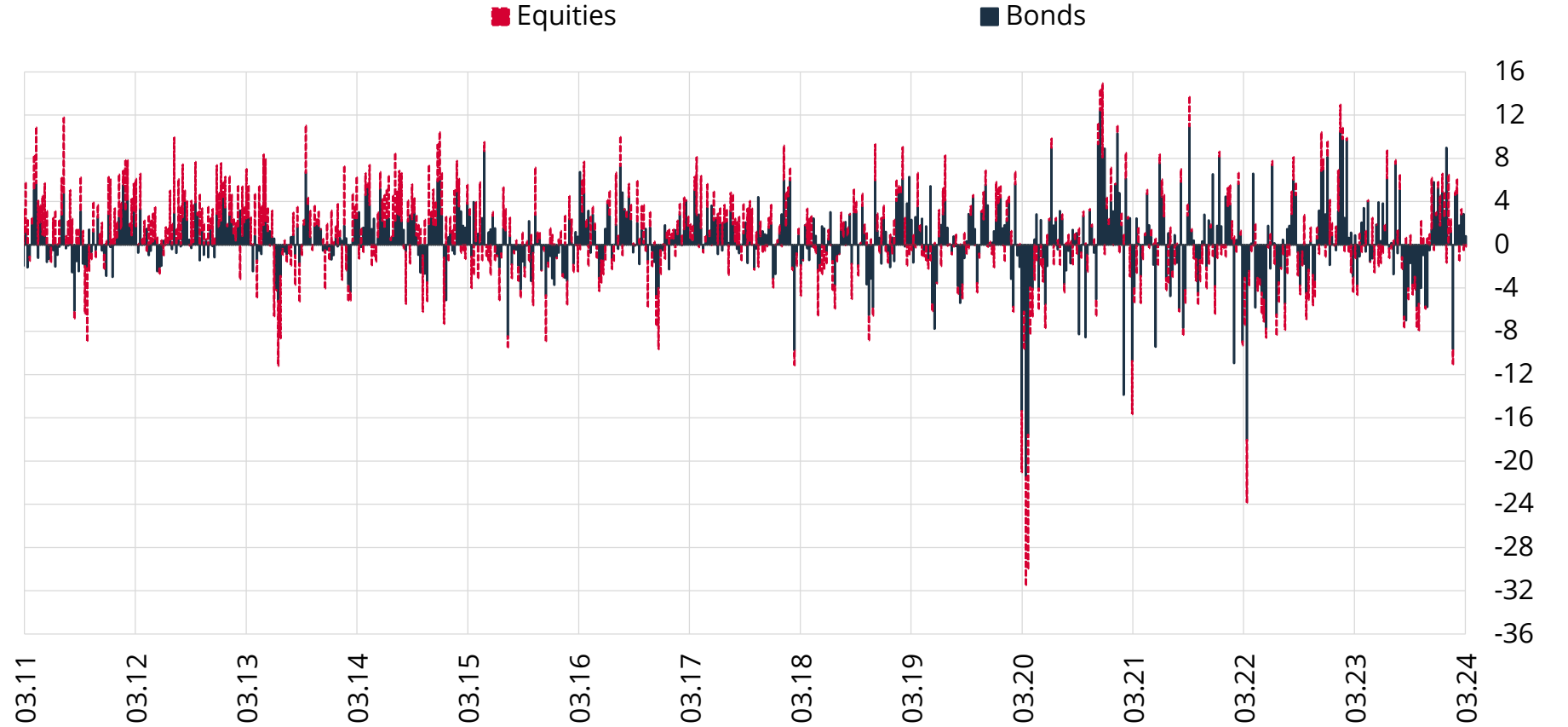
Source : Bloomberg

Last Observation: December 2023

GIIPS: Greece, Italy, Portugal, Spain.

# Portfolio Flows

## All Developing Countries, Weekly Fund Flows (Billion US Dollars)

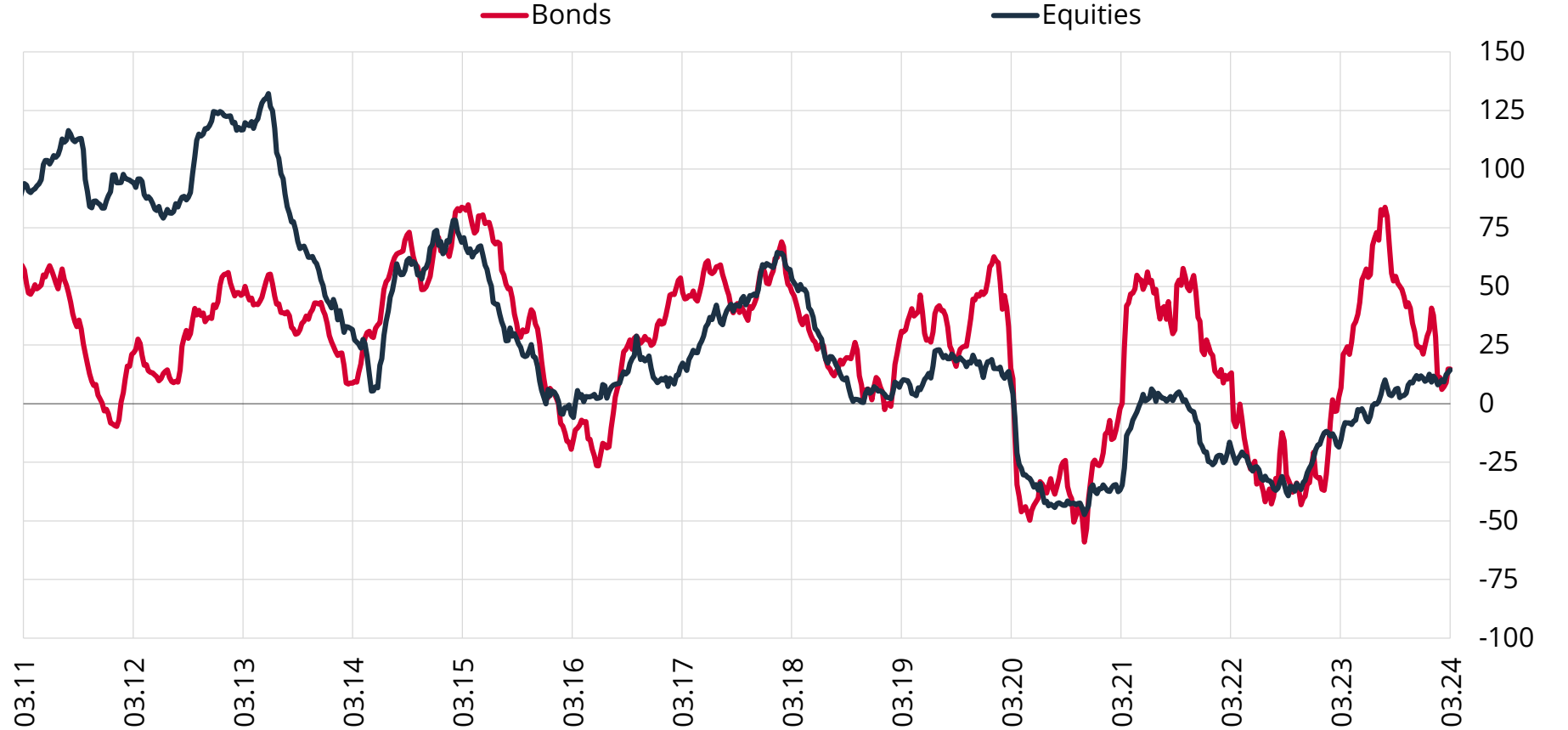


Source : IIF

Last Observation: March 1, 2024

# Portfolio Flows

## All Developing Countries, Weekly 52 Week Cumulative Fund Flows (Billion US Dollars)



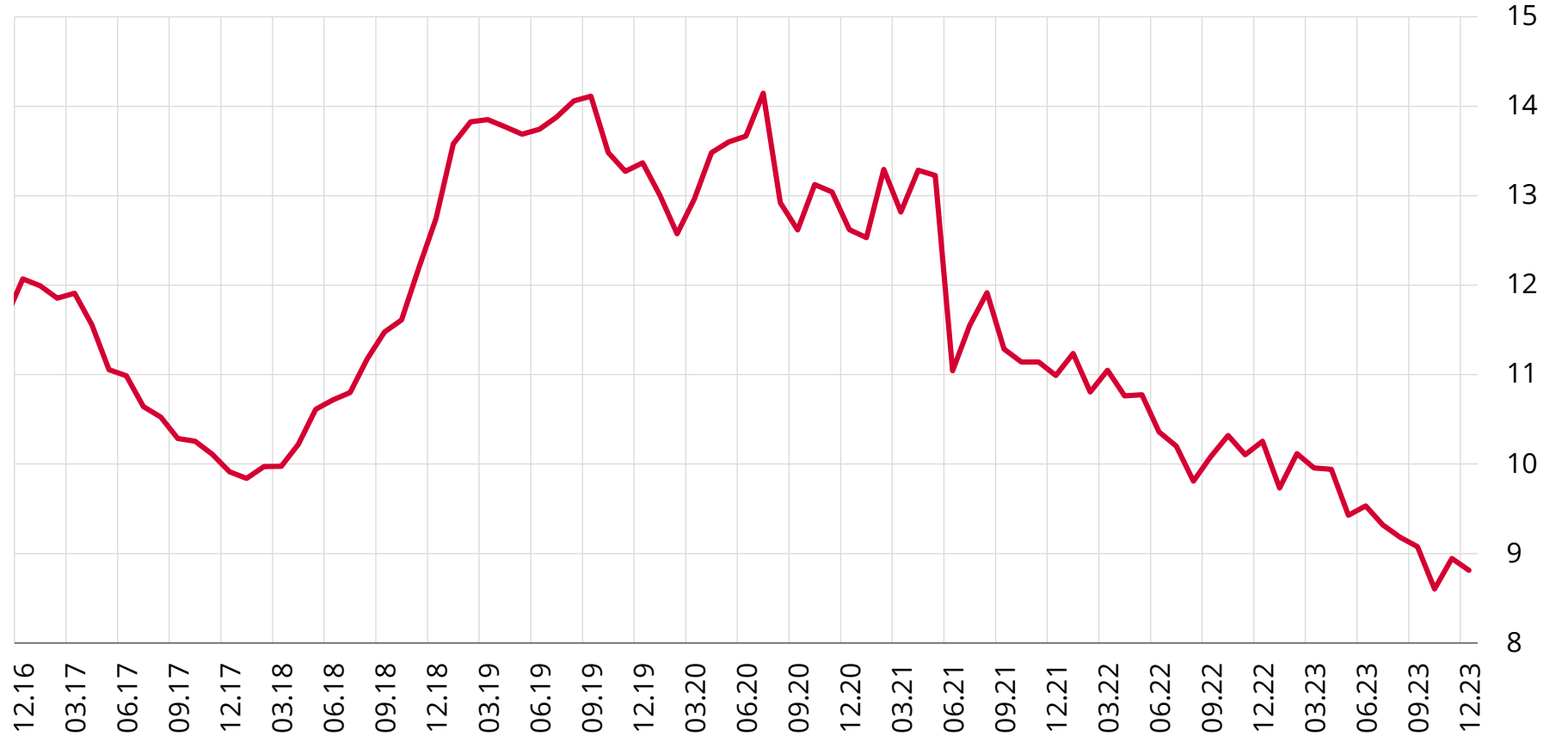
Source : IIF

Last Observation: March 1, 2024

# **LABOR MARKET DEVELOPMENTS**

# Unemployment Rate

(Seasonally Adjusted, %)

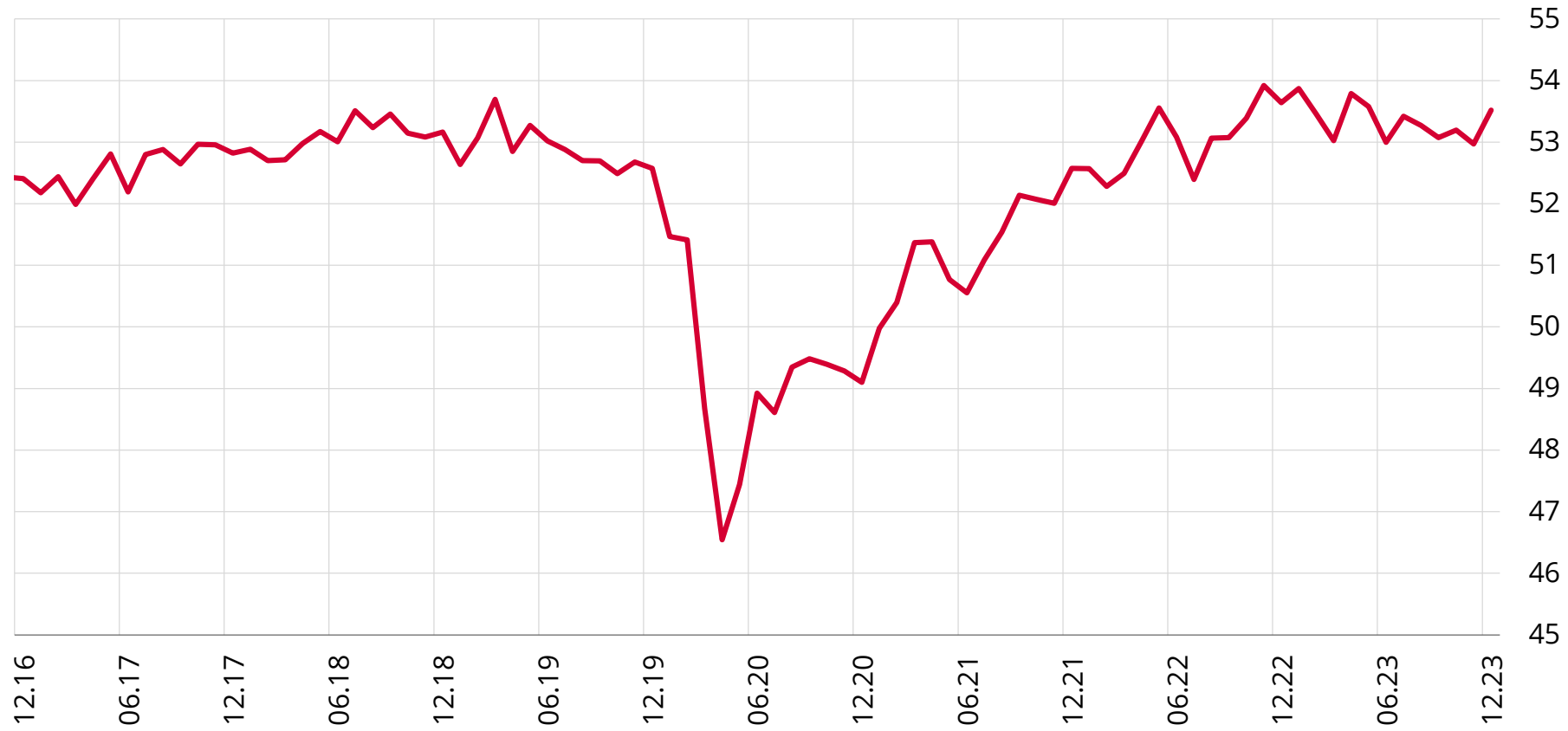


Source: TURKSTAT

Last Observation: December 2023

# Participation Rate

(Seasonally Adjusted, %)

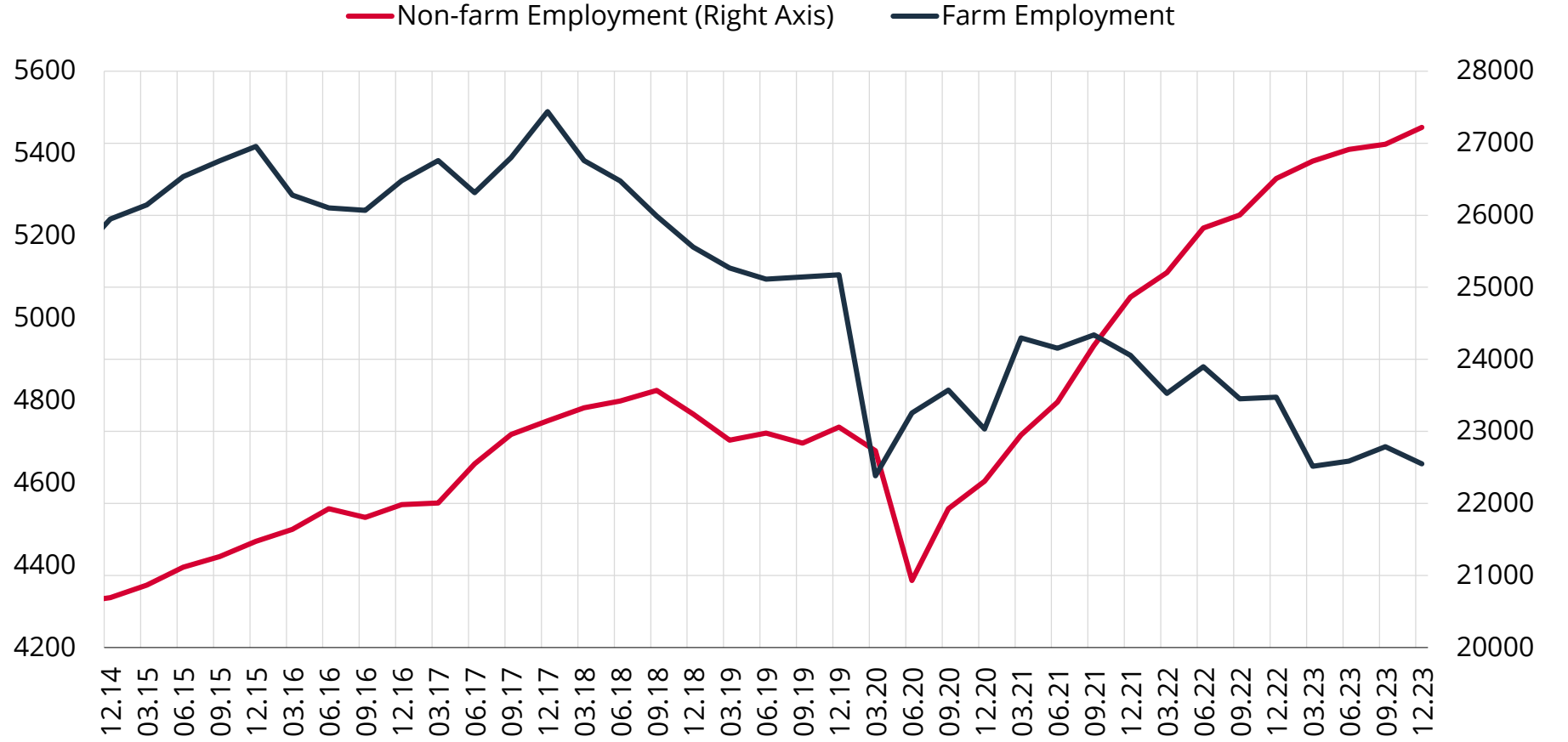


Source: TURKSTAT

Last Observation: December 2023

# Employment

(Seasonally Adjusted, Thousand People)

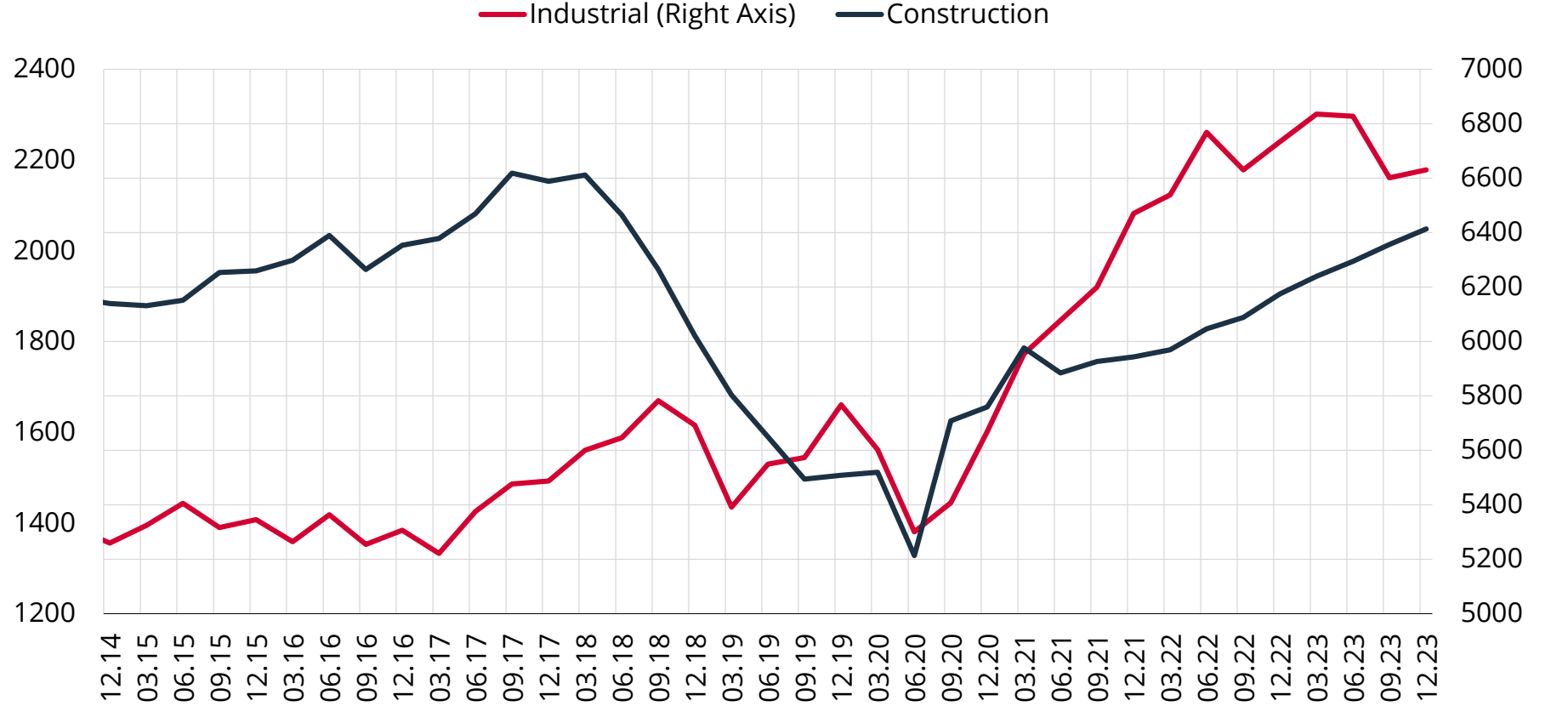


Source: TURKSTAT

Last Observation: 2023Q4

# Employment by Sectors

(Seasonally Adjusted, Thousand People)



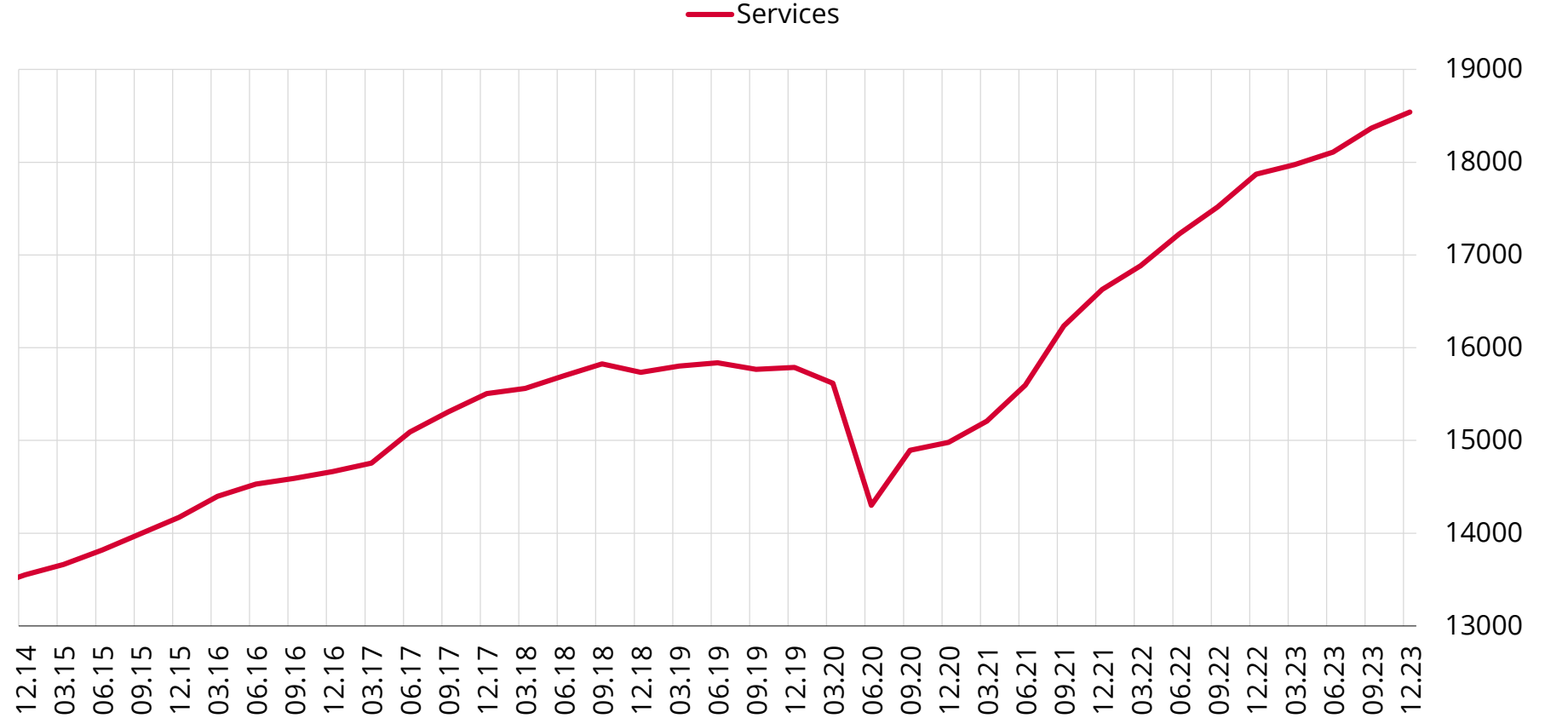
Source: TURKSTAT

Last Observation: 2023Q4



# Employment by Sectors

(Seasonally Adjusted, Thousand People)



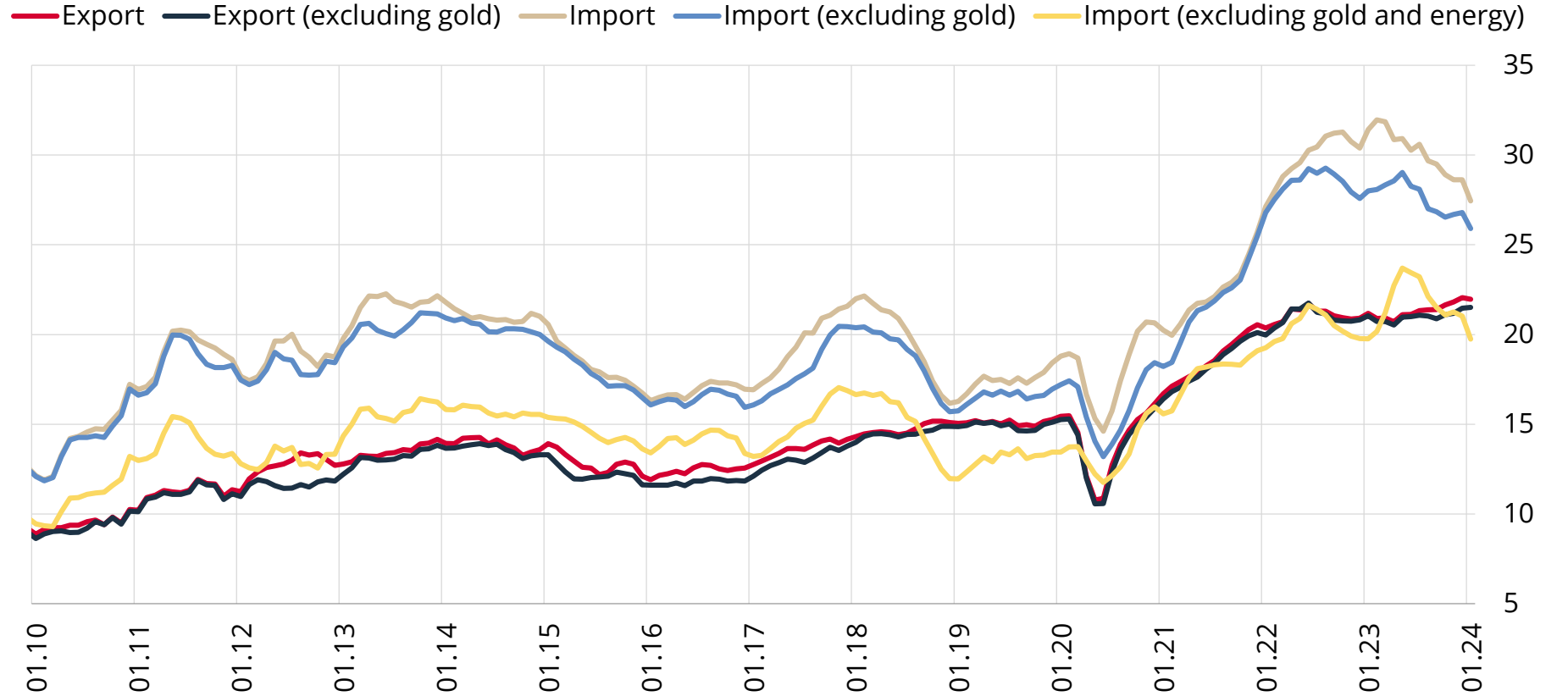
Source: TURKSTAT

Last Observation: 2023Q4

# **BALANCE OF PAYMENTS DEVELOPMENTS**

# Foreign Trade

(Seasonally Adjusted, 3-Month Moving Average, Billion USD)

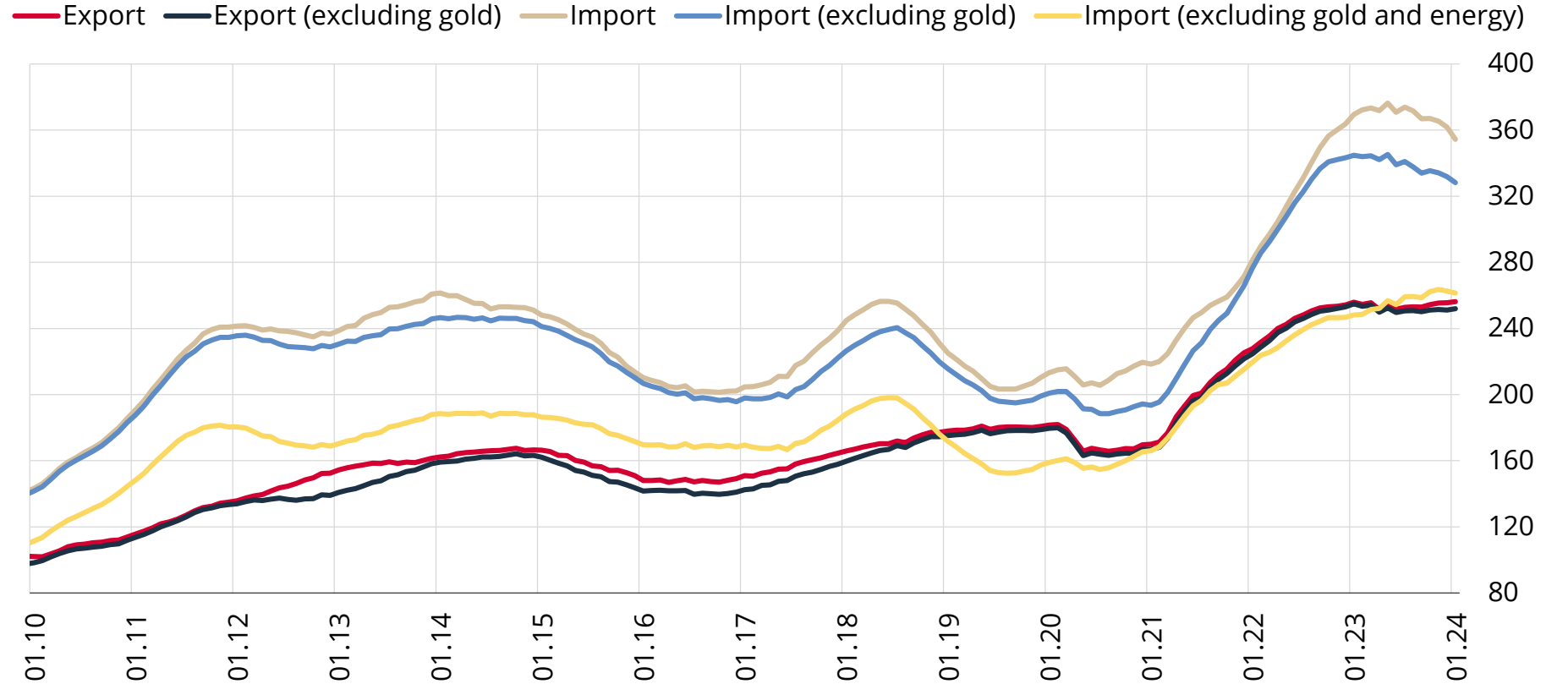


Source: CBRT, TURKSTAT

Last Observation: January 2024

# Foreign Trade

(12-month Cumulative, Billion USD)

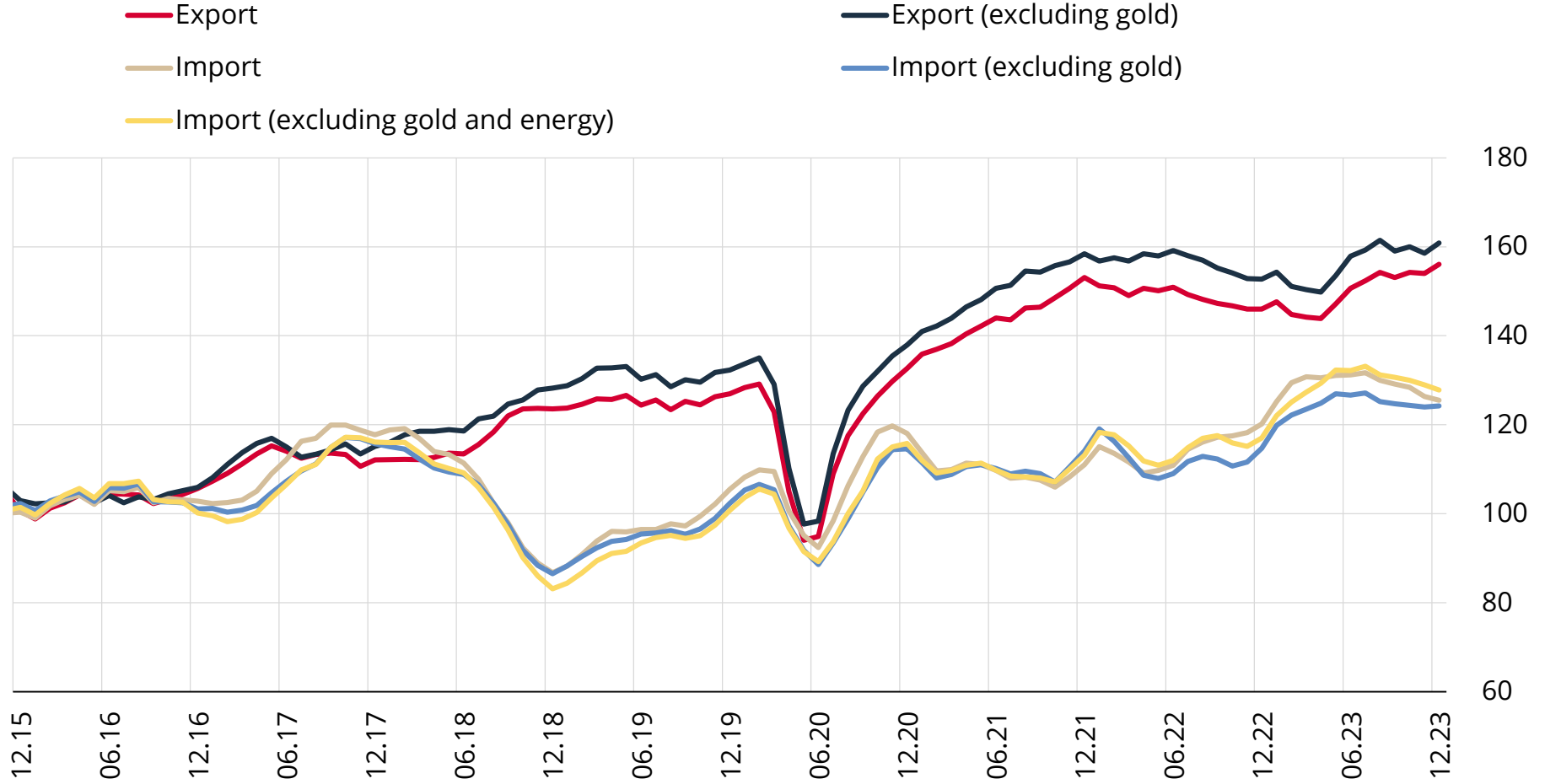


Source: CBRT, TURKSTAT

Last Observation: January 2024

# Real Import and Real Export

(Index 2015=100, Seasonally Adjusted, 3-month Moving Average)

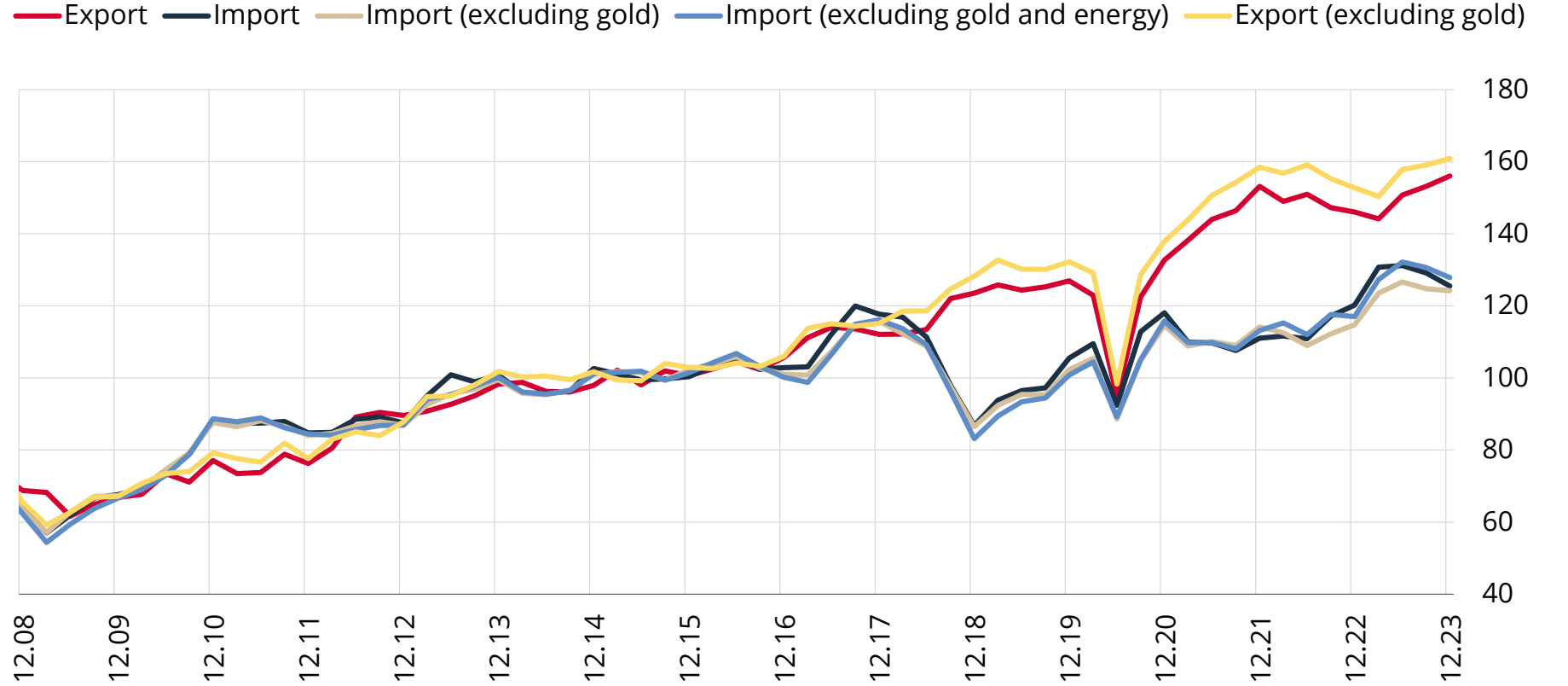


Source: CBRT, TURKSTAT

Last Observation: December 2023

# Real Import and Real Export

(Index 2015=100, Seasonally Adjusted Quarterly)

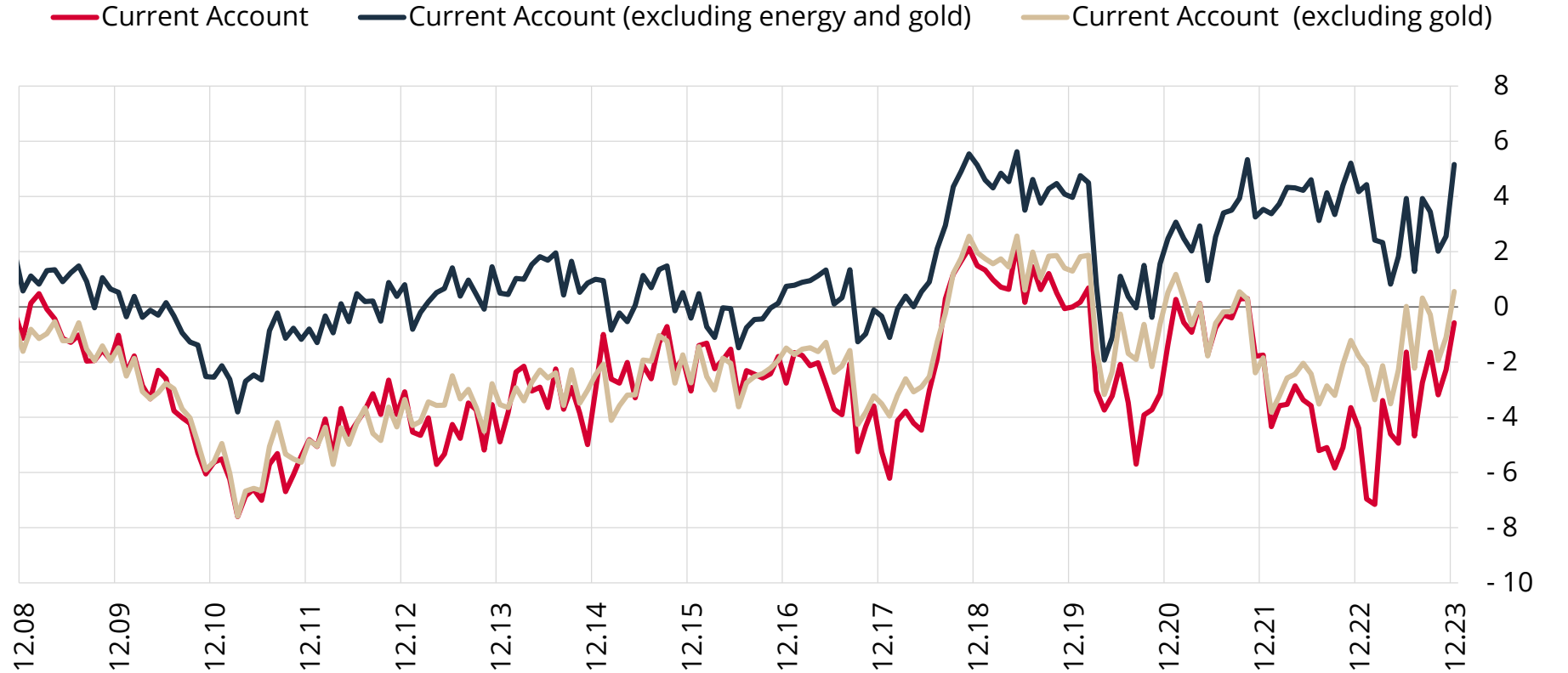


Source: CBRT, TURKSTAT

Last Observation: December 2023

# Current Account Balance

(Seasonally Adjusted, Billion USD)

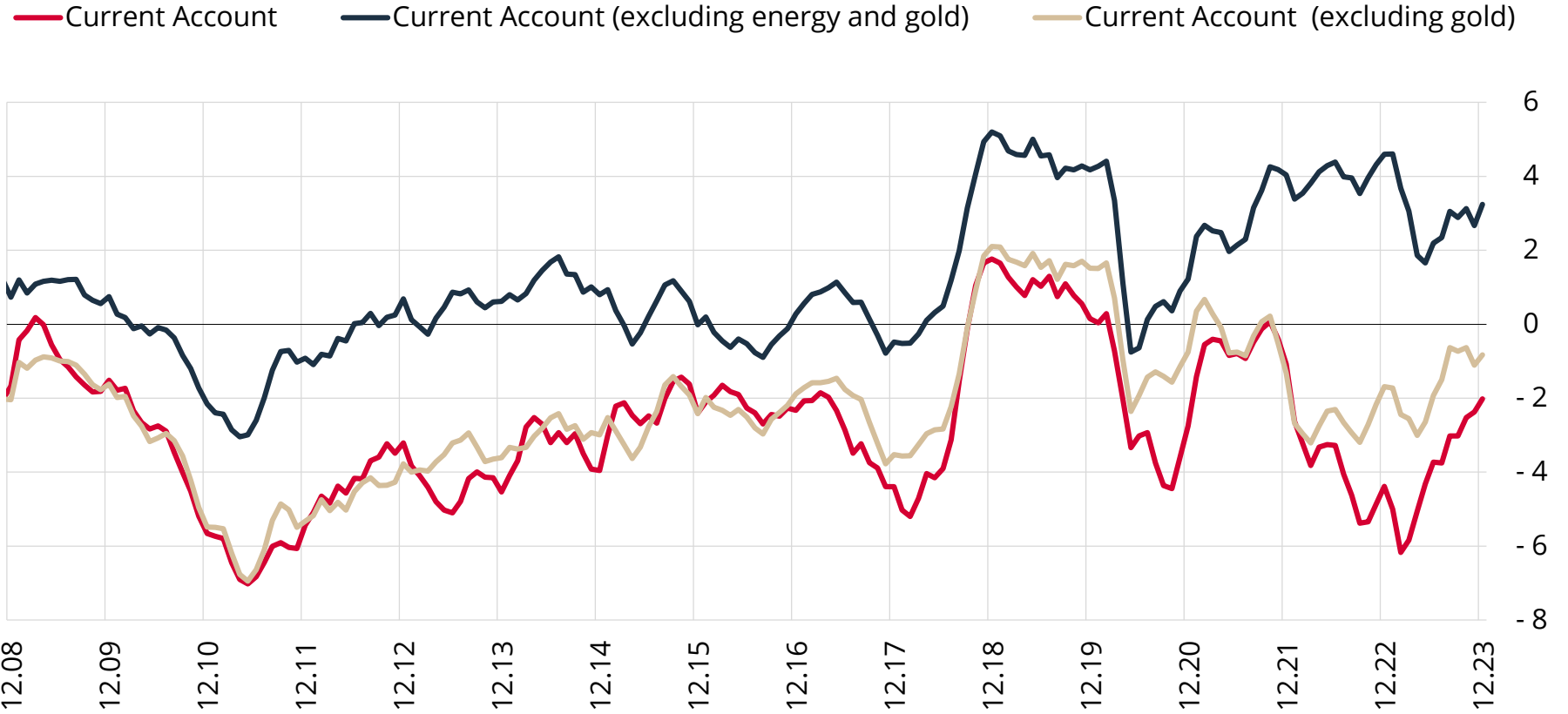


Source: CBRT

Last Observation: December 2023

# Current Account Balance

(Seasonally Adjusted, 3-month Moving Average, Billion USD)



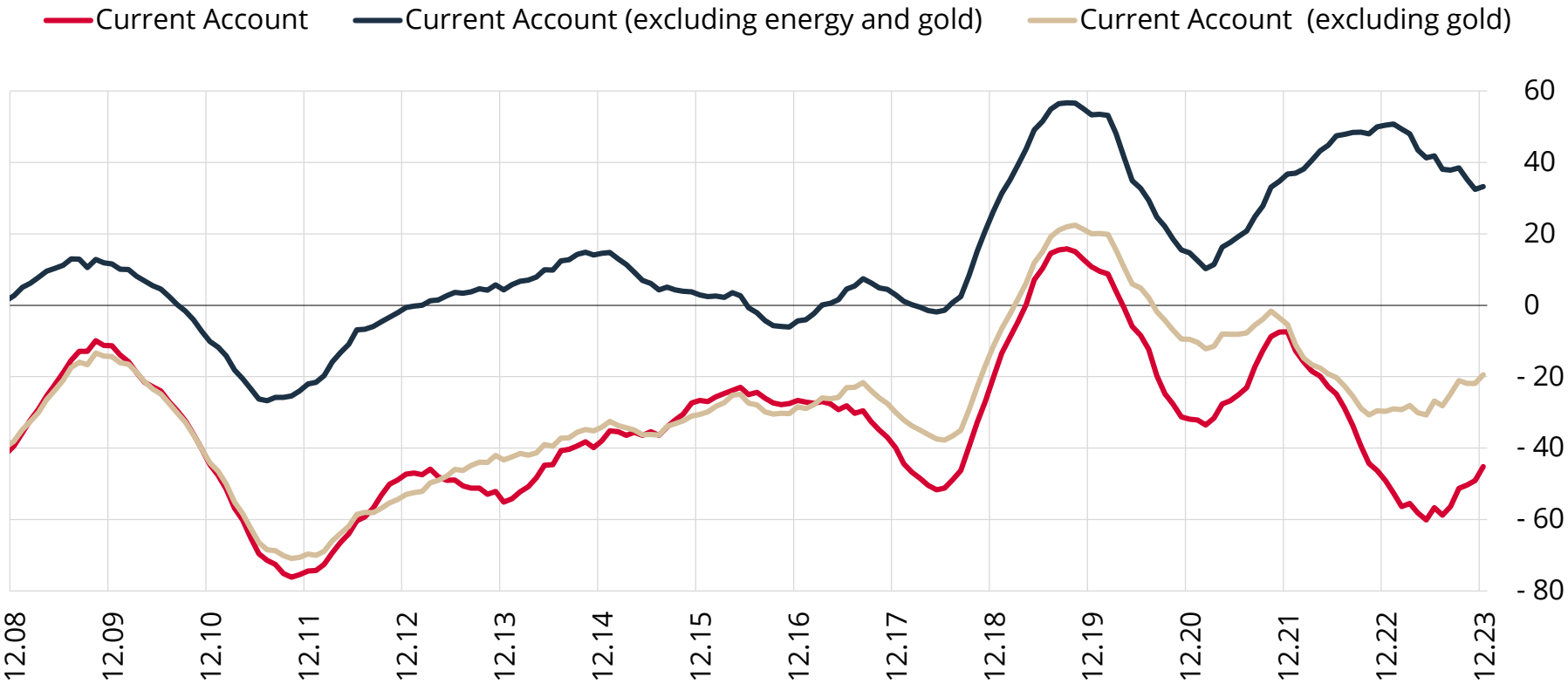
Source: CBRT

Last Observation: December 2023



# Current Account Balance

(12-month Cumulative, Billion USD)

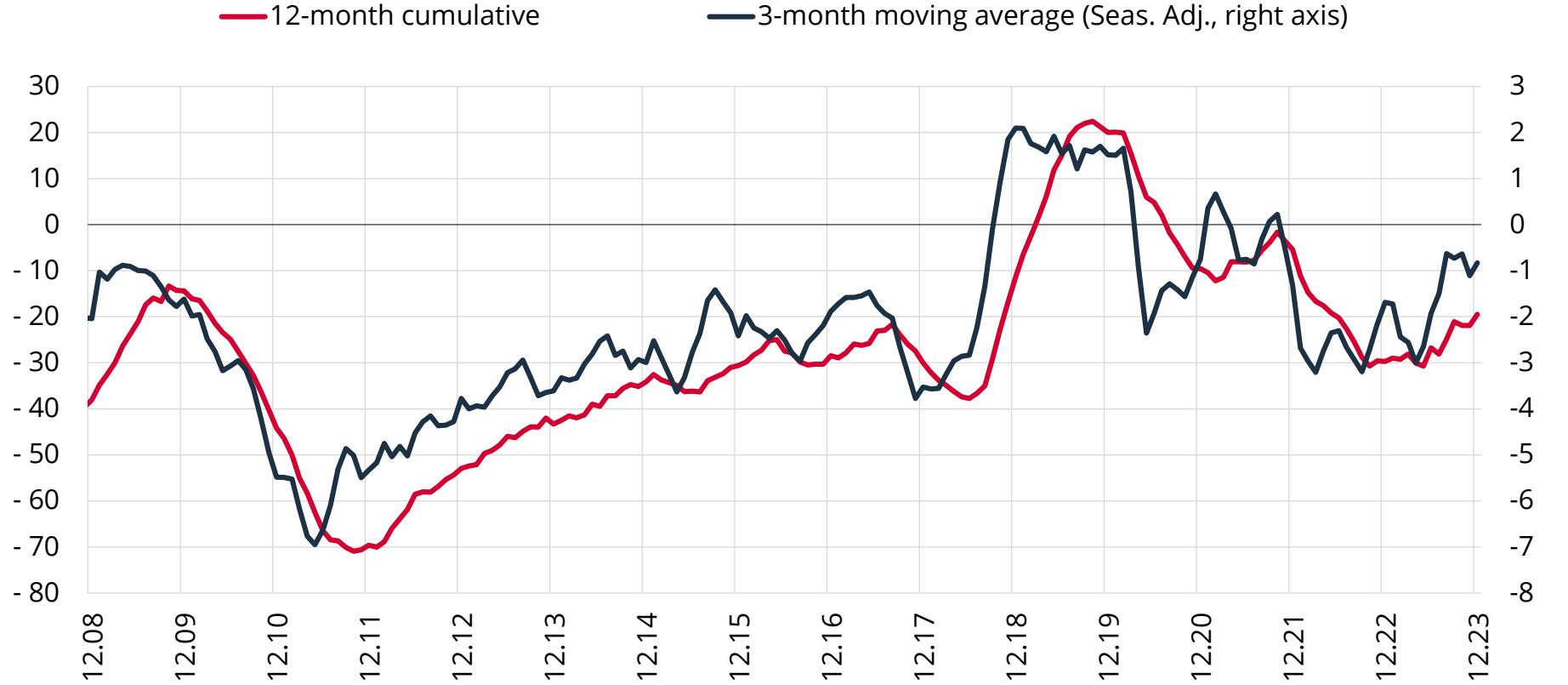


Source: CBRT

Last Observation: December 2023

# Current Account Balance

(Excluding Gold, Billion USD)

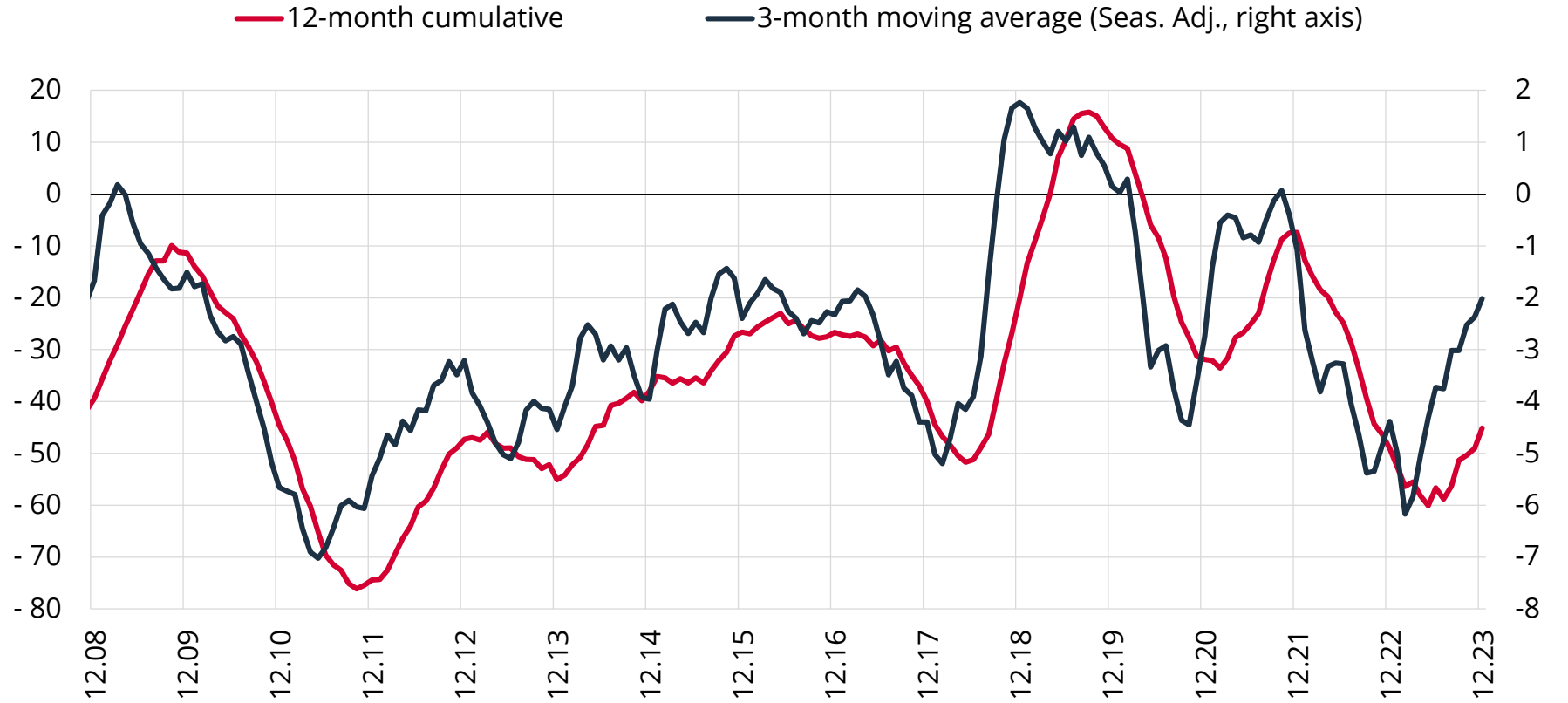


Source: CBRT

Last Observation: December 2023

# Current Account Balance

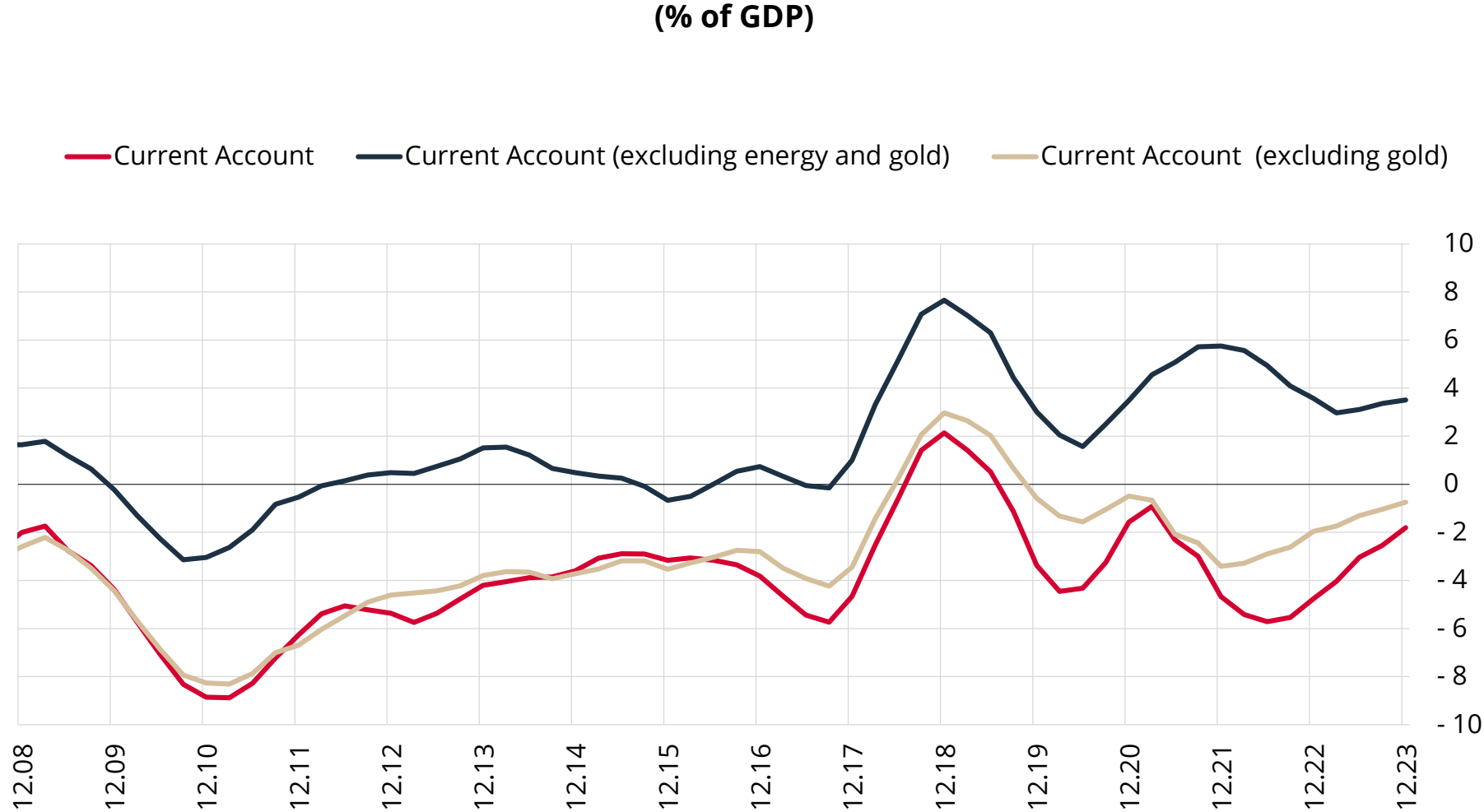
(Billion USD)



Source: CBRT

Last Observation: December 2023

# Current Account Balance

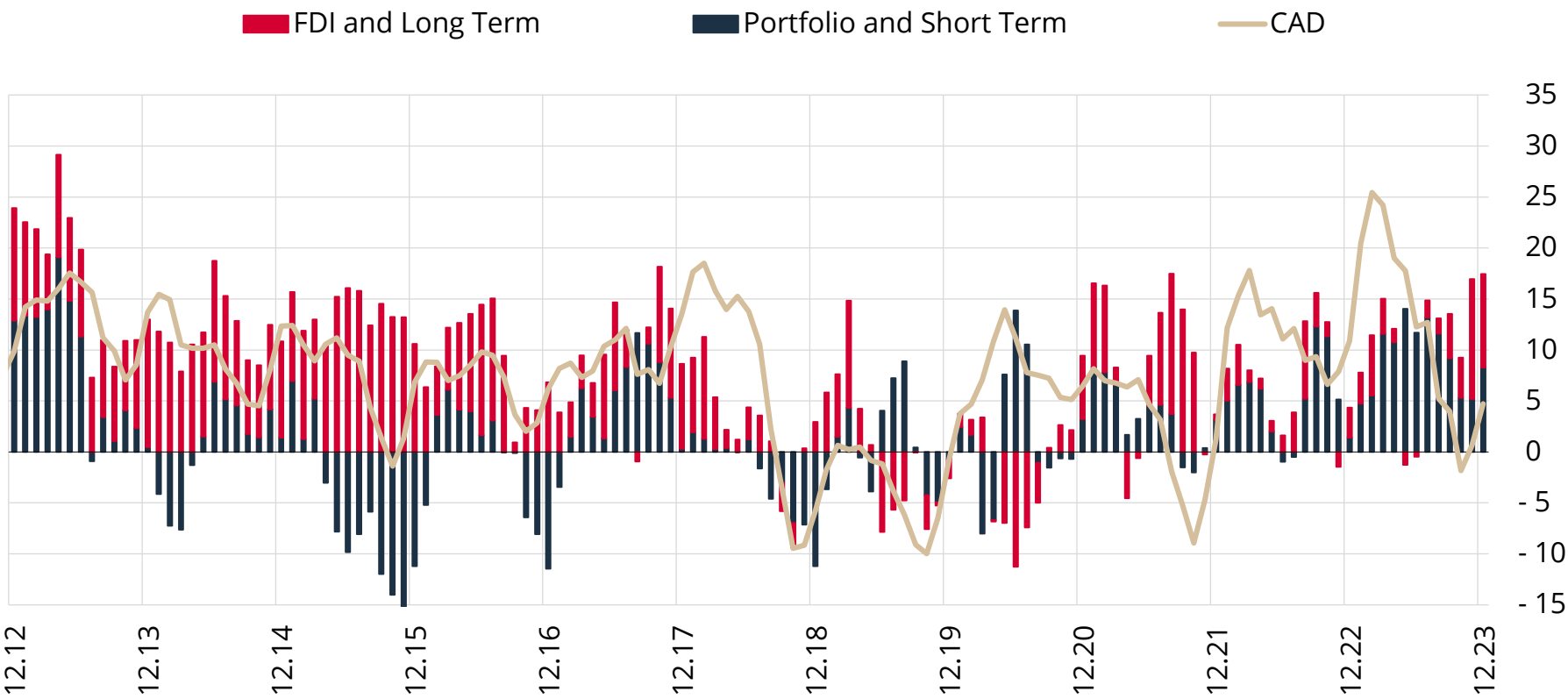


Source: CBRT

Last Observation: 2023Q4

# Main Sources of External Finance\*

(3-month Cumulative, Billion USD)



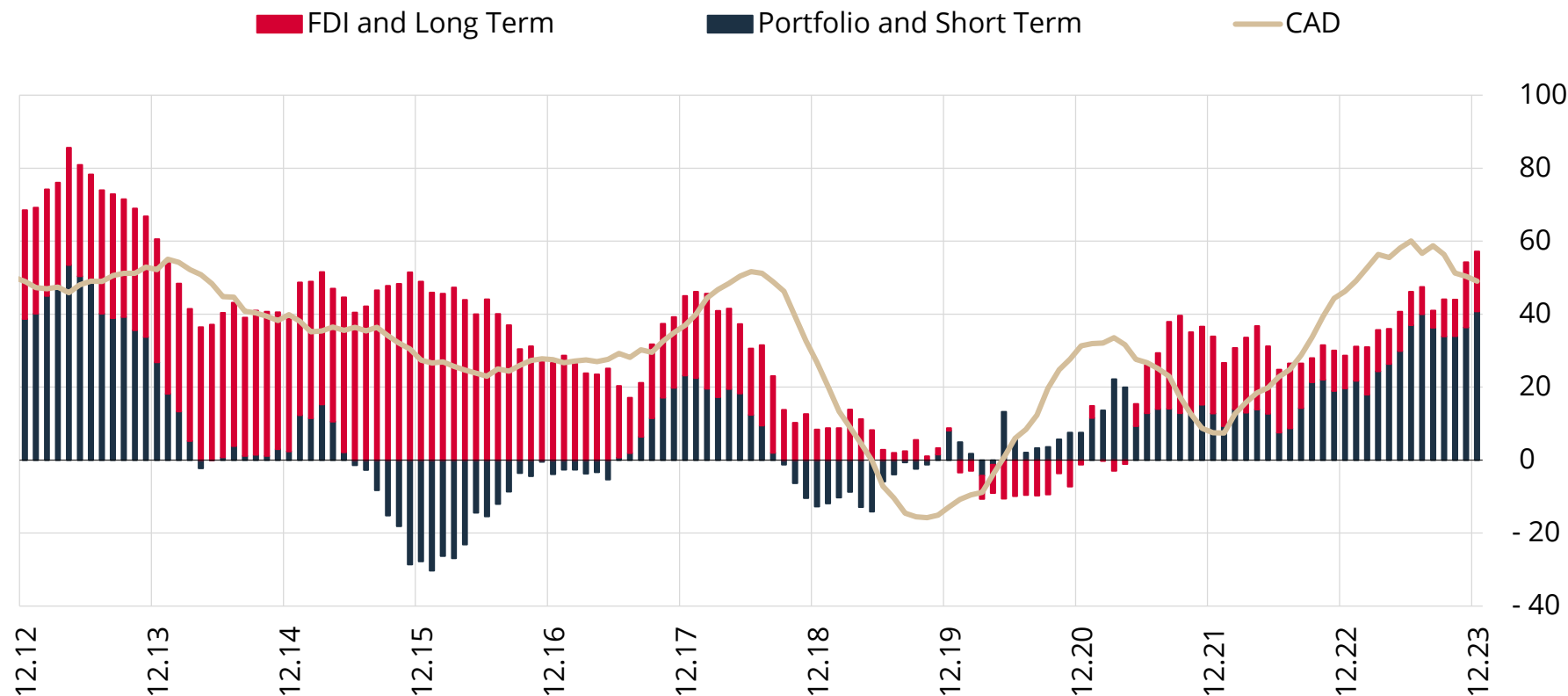
Source: CBRT

Last Observation: December 2023

\* Long term capital movements are sum of banking and real sectors' long term net credit and bonds issued by banks and the Treasury. Short term capital movements are sum of banking and real sectors' short term net credit and deposits in banks.

# Main Sources of External Finance\*

(12-month Cumulative, Billion USD)



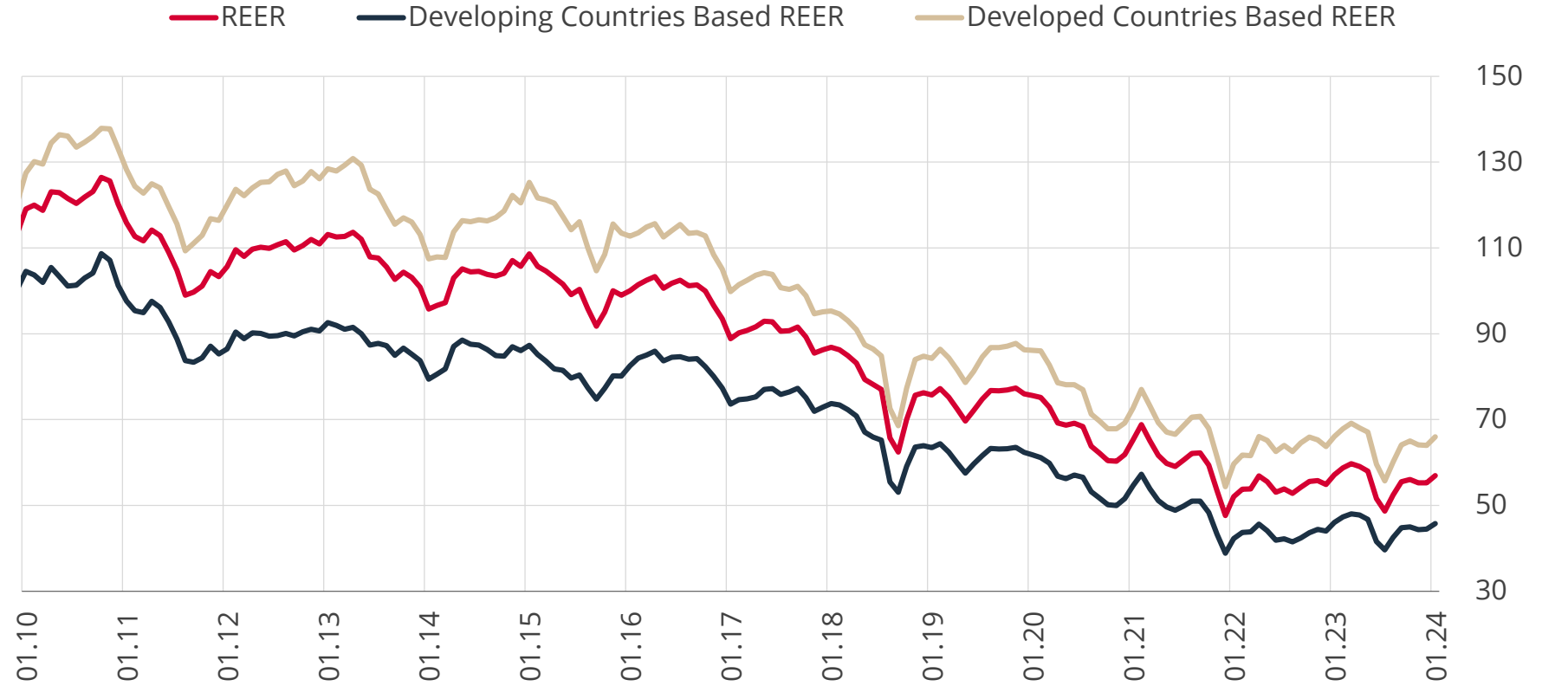
Source: CBRT

Last Observation: December 2023

\* Long term capital movements are sum of banking and real sectors' long term net credit and bonds issued by banks and the Treasury. Short term capital movements are sum of banking and real sectors' short term net credit and deposits in banks.

# Real Exchange Rate

CPI Based REER\* (2003=100)



Source: CBRT

Last Observation: January 2024

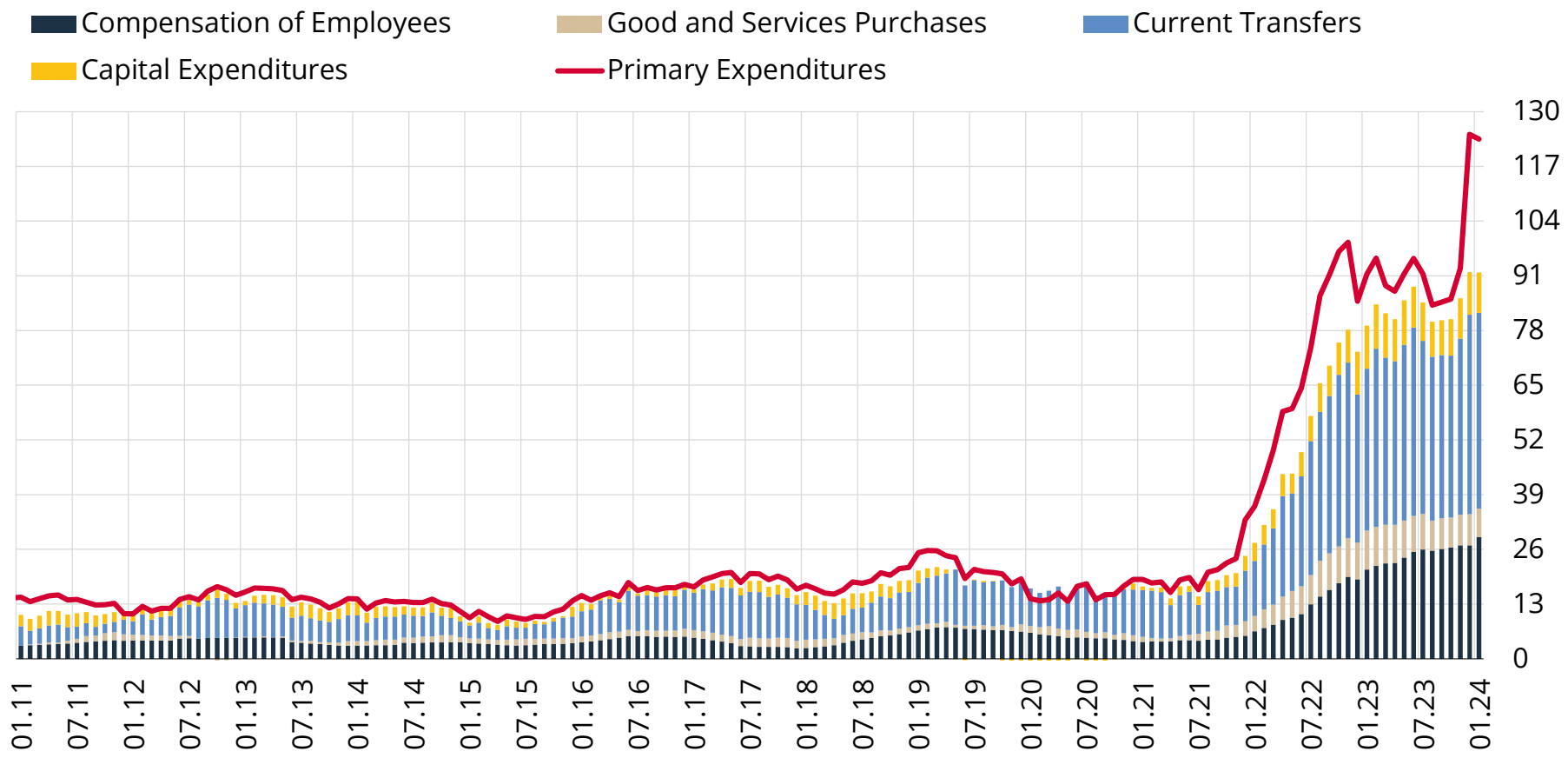
\* Real effective exchange rate.

# **PUBLIC FINANCE DEVELOPMENTS**



# Contributions To Primary Expenditures

(12-Month Cumulative, Contribution To Annual % Change)\*

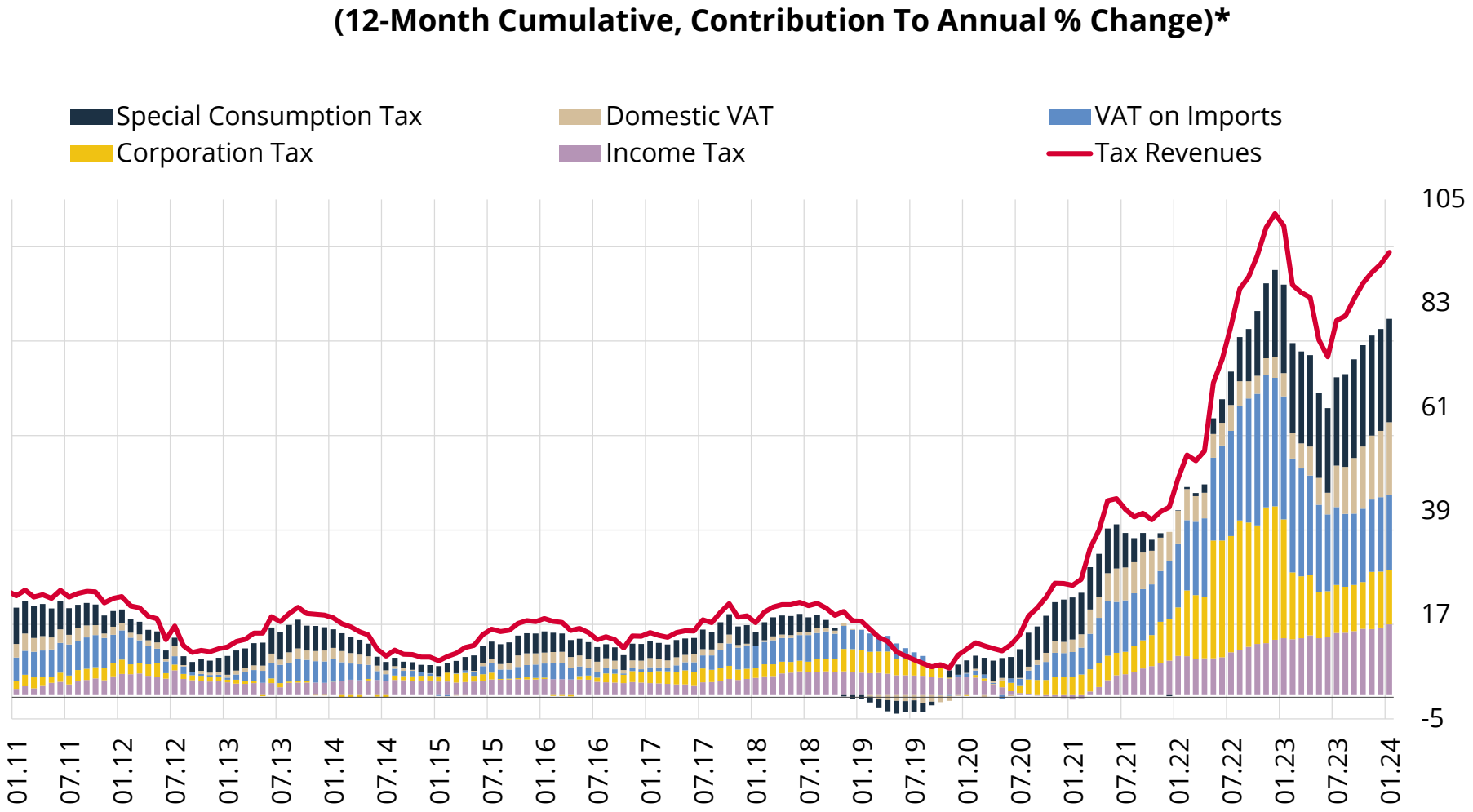


Source: Ministry of Treasury and Finance

Observation Date: January 2024

\* Principal items have been selected.

# Contributions To Tax Revenues

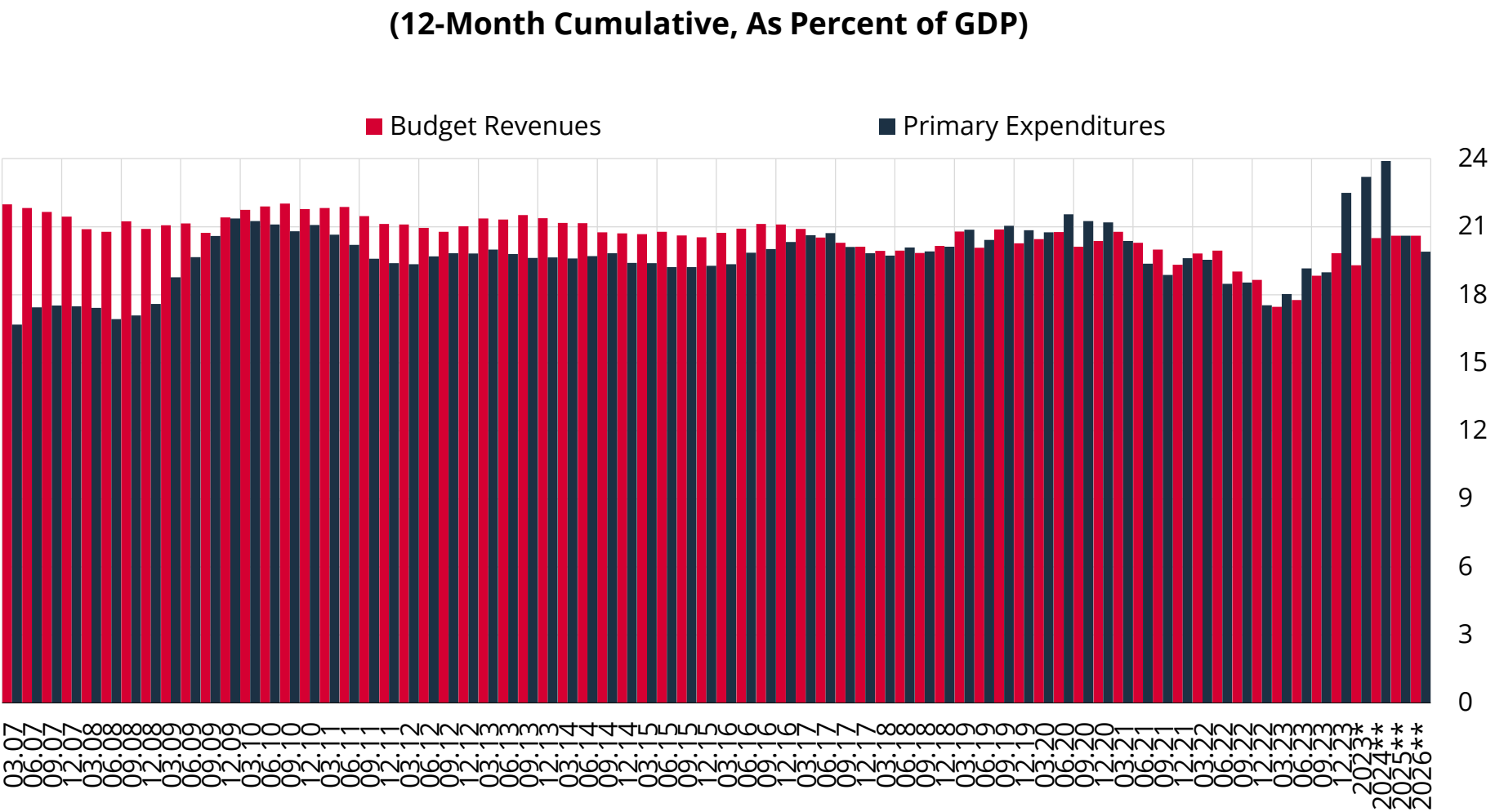


Source: Ministry of Treasury and Finance

Observation Date: January 2024

\* Principal items have been selected.

# Central Government Budget Revenues and Expenditures

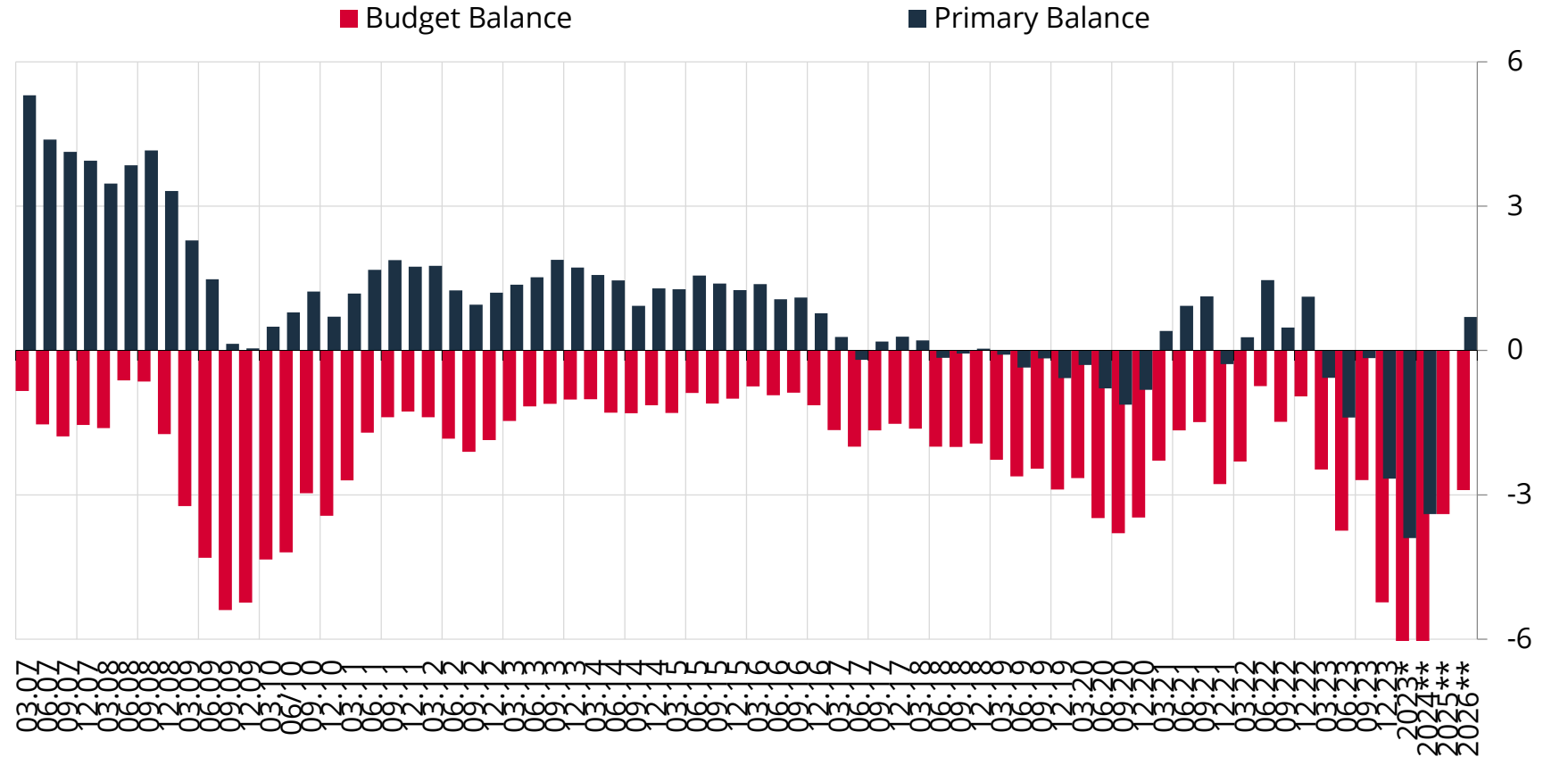


Source: Ministry of Treasury and Finance, Medium Term Program (2024-2026) Observation Date: 2023Q4

\* Medium Term Program (2024-2026) realization forecast.  
\*\* Medium Term Program (2024-2026) forecast.

# Central Government Budget Balance

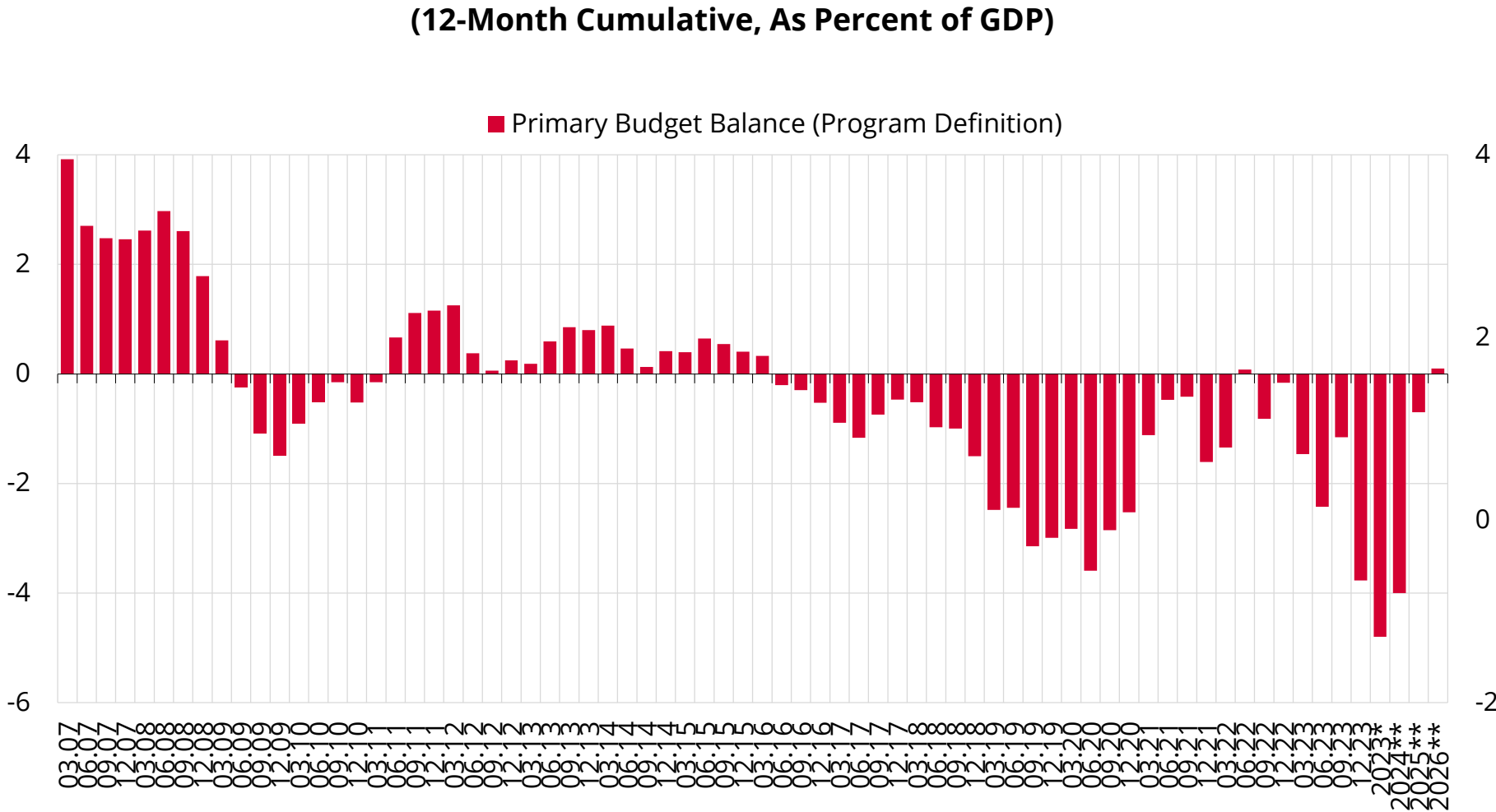
(12-Month Cumulative, As Percent of GDP)



Source: Ministry of Treasury and Finance, Medium Term Program (2024-2026)

Observation Date: 2023Q4

# Program Defined Primary Budget Balance



Source: Ministry of Treasury and Finance, Medium Term Program (2024-2026)

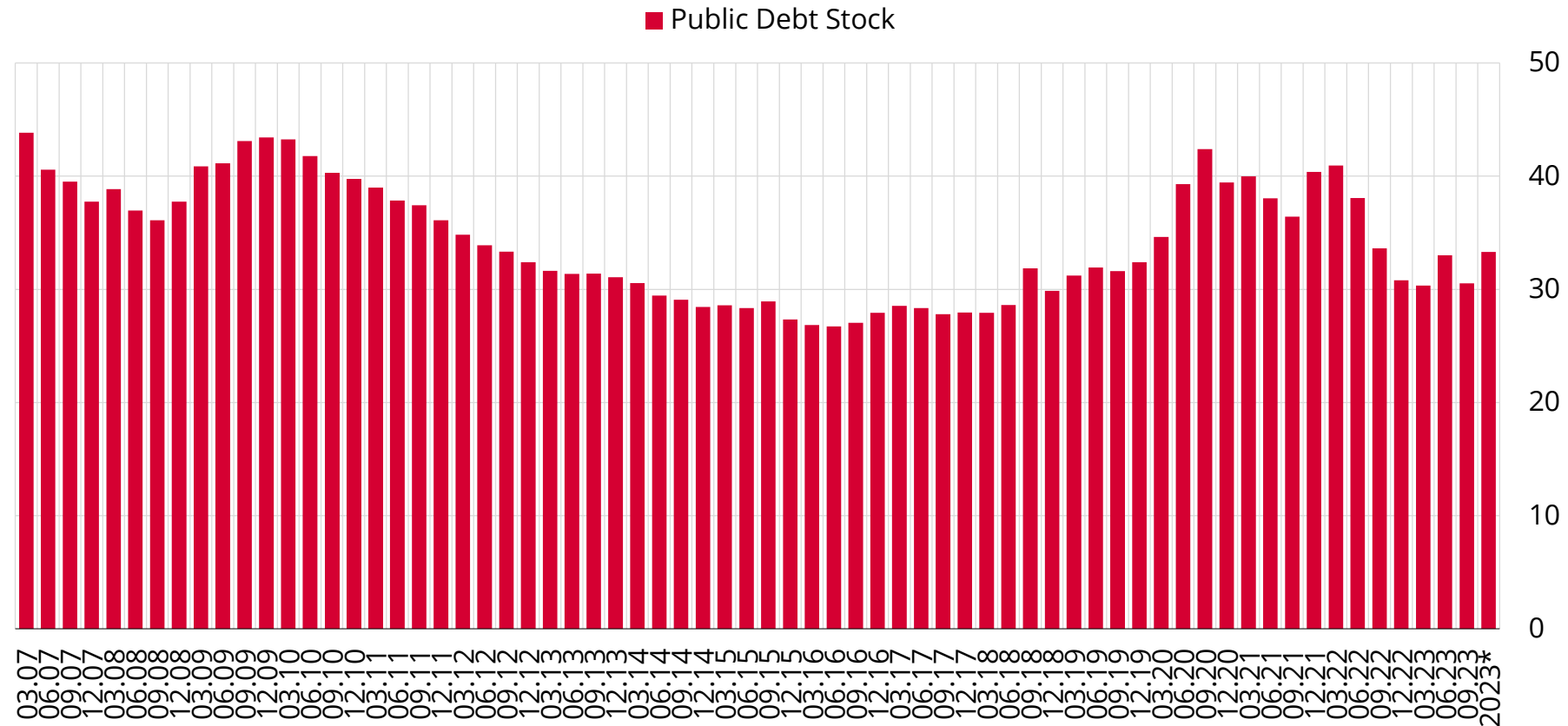
Observation Date: 2023Q4

\* Medium Term Program (2024-2026) realization forecast.

\*\* Medium Term Program (2024-2026) forecast.

# EU Defined Public Debt

(As Percent of GDP)



Source: Ministry of Treasury and Finance, Medium Term Program (2023-2025)

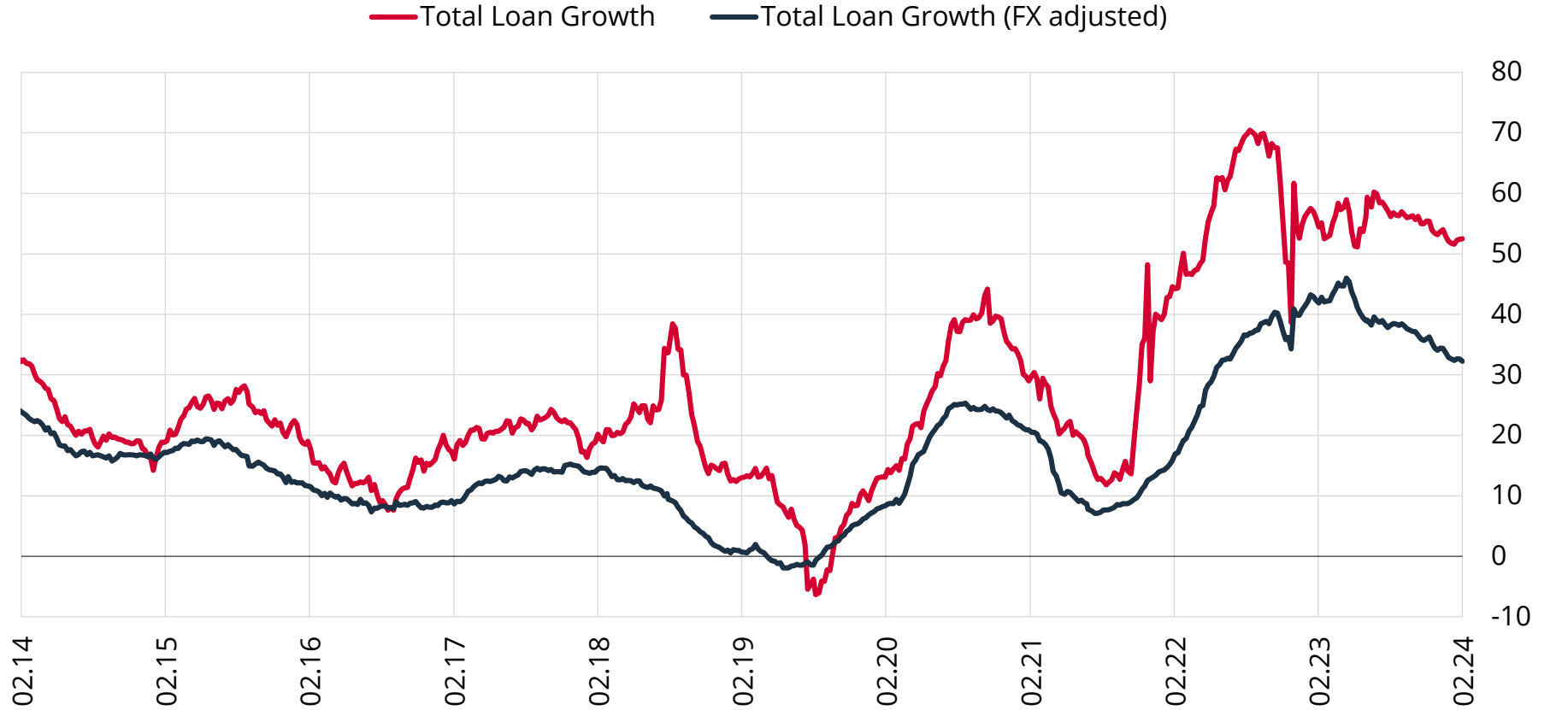
Observation Date: 2023Q3

\* Medium Term Program (2023-2025) target.

# **FINANCIAL INTERMEDIATION AND LOANS DEVELOPMENTS**

# Total Loans\*

(Year on Year Change, %)



Source: CBRT

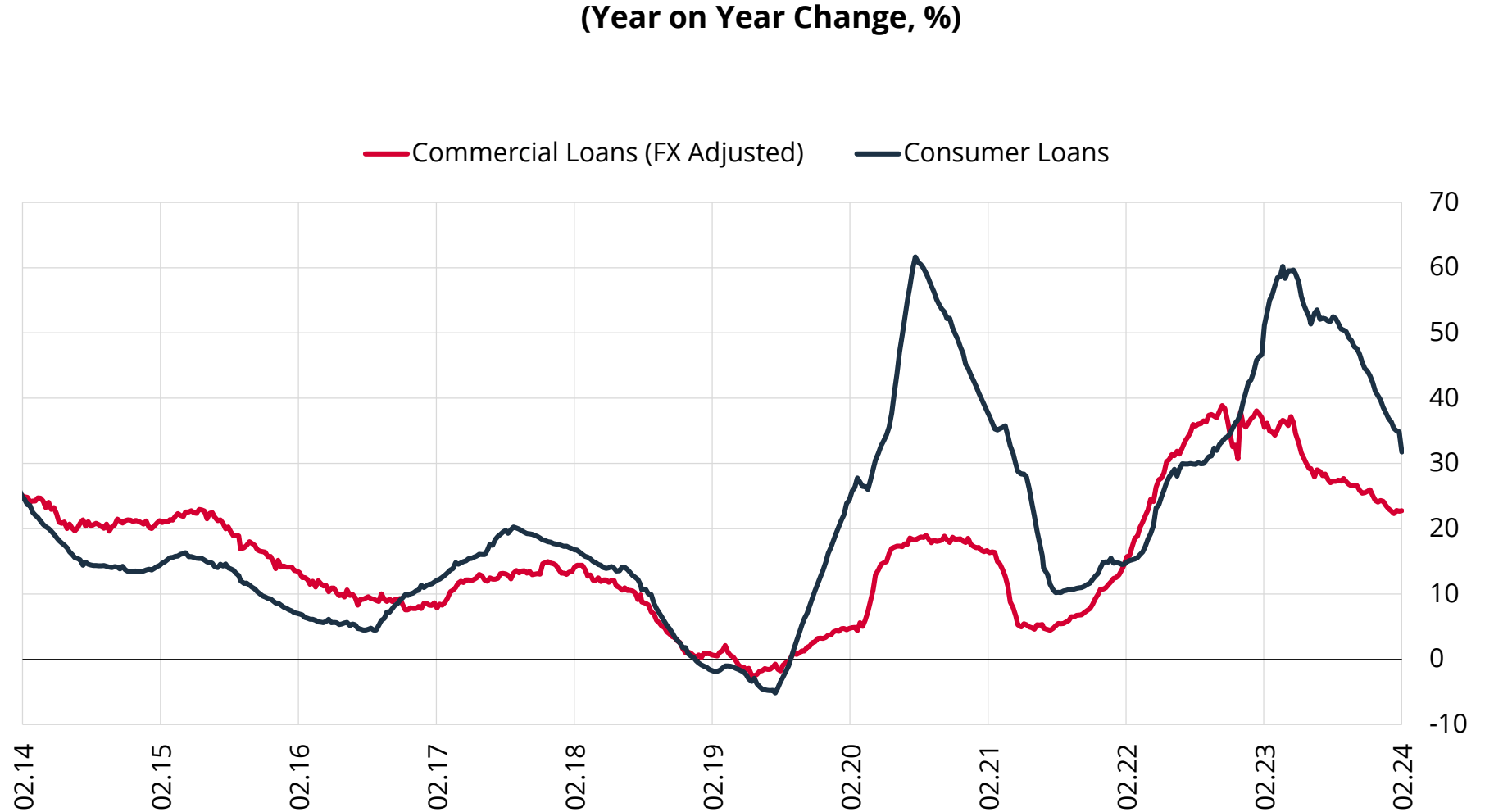
Last Observation: February 23, 2024

Due to exchange rate movements and changes in TRY- FX loan weights and the currency composition of FX loans, the exchange rate adjustment methodology was updated with the aim to form a more representative total loan growth indicator. The total FX-adjusted credit growth is calculated using the change in TL loans and the change in FX (in terms of currency basket) loans multiplied by the period average of the exchange rate basket. [For the technical note on the exchange rate adjustment methodology, please see.](#)

\* Total banking sector (including participation banks). Loans extended to banks excluded. NPLs excluded.



# Commercial and Consumer Loans\*



Source: CBRT

Last Observation: February 23, 2024

# Total Loans\*

(Adjusted for Exchange Rate, Annualized 13-Week Growth, %)



Source: CBRT

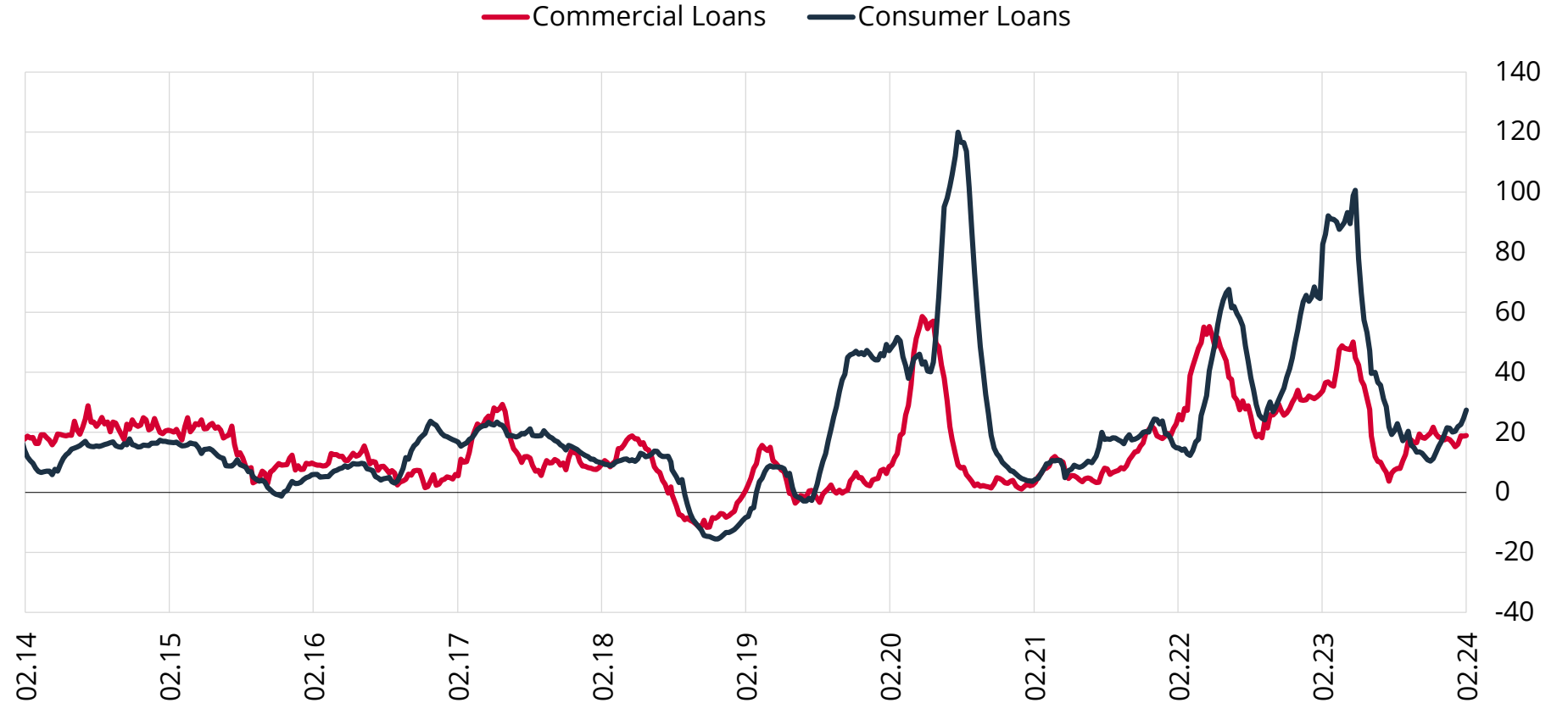
Last Observation: February 23, 2024

The total FX-adjusted credit growth is calculated using the change in TL loans and the change in FX (in terms of currency basket) loans multiplied by the period average of the exchange rate basket. [For the technical note on the exchange rate adjustment methodology, please](#)

\* Total banking sector (including participation banks). Loans extended to banks excluded. NPLs excluded.  
13 week growth rate of credit stock, adjusted for exchange rate, is annualized.

# Commercial and Consumer Loans\*

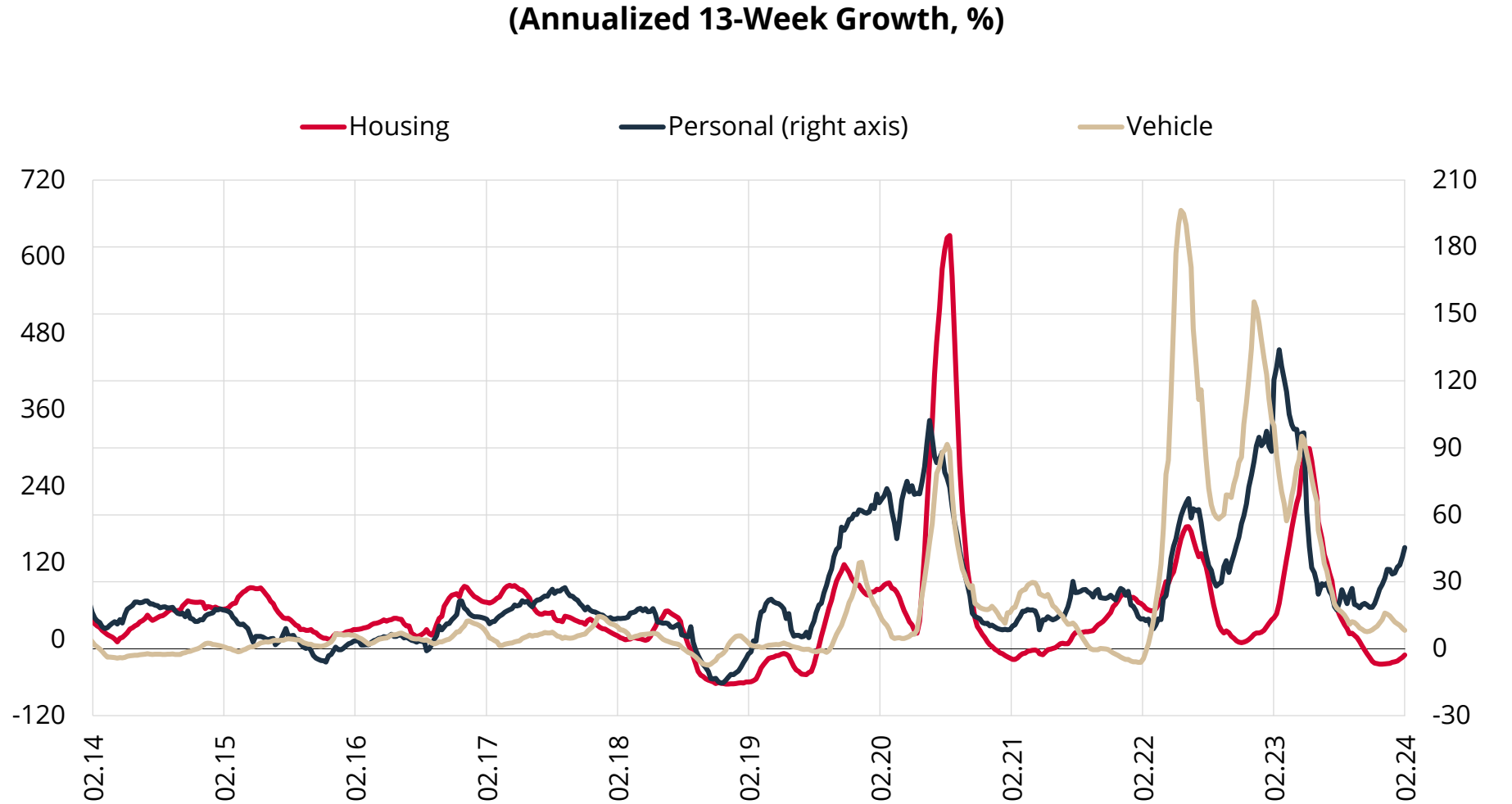
(Adjusted for Exchange Rate, Annualized 13-Week Growth, %)



Source: CBRT

Last Observation: February 23, 2024

# Consumer Loans\*

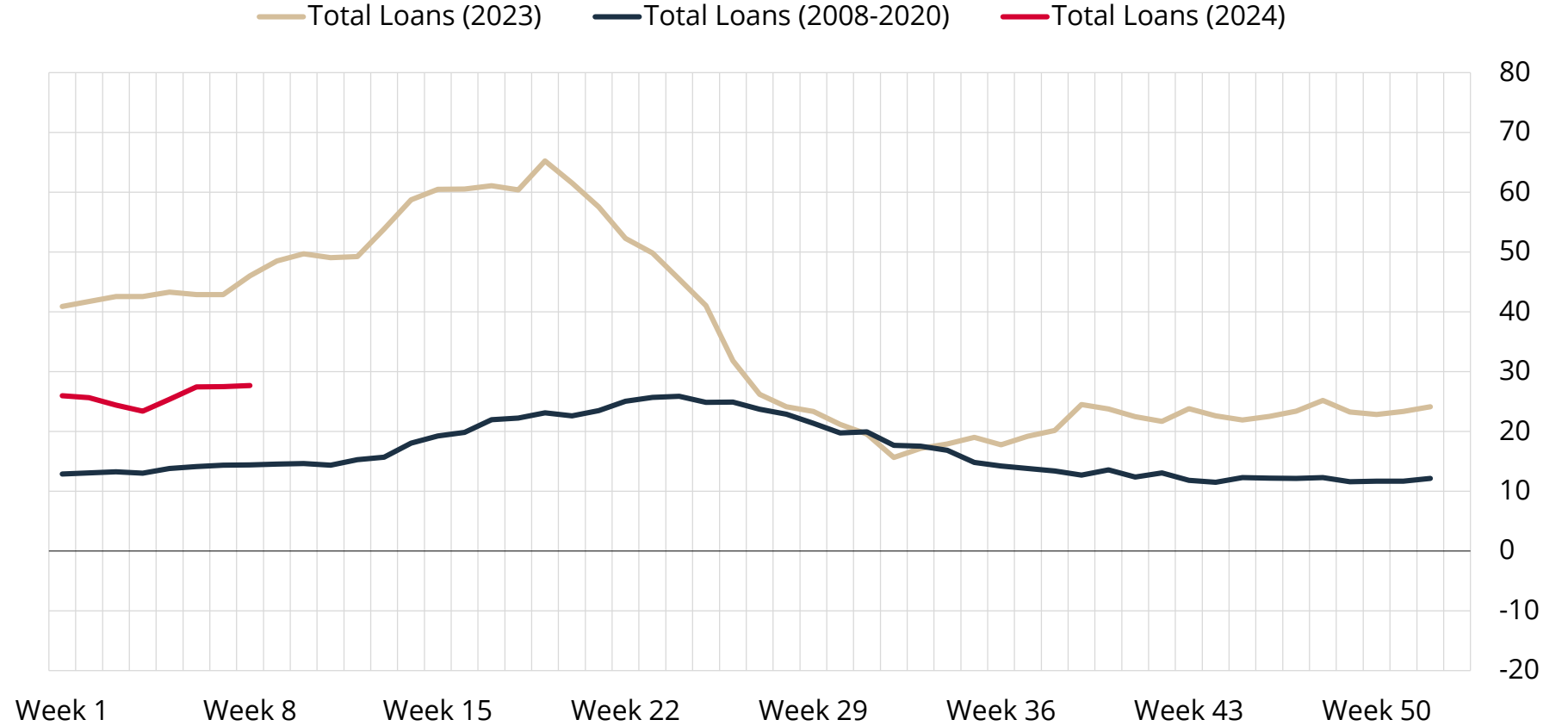


Source: CBRT

Last Observation: February 23, 2024

# Total Loans\*

(Adjusted for Exchange Rate, Annualized 13-Week Growth, %)



Source: CBRT

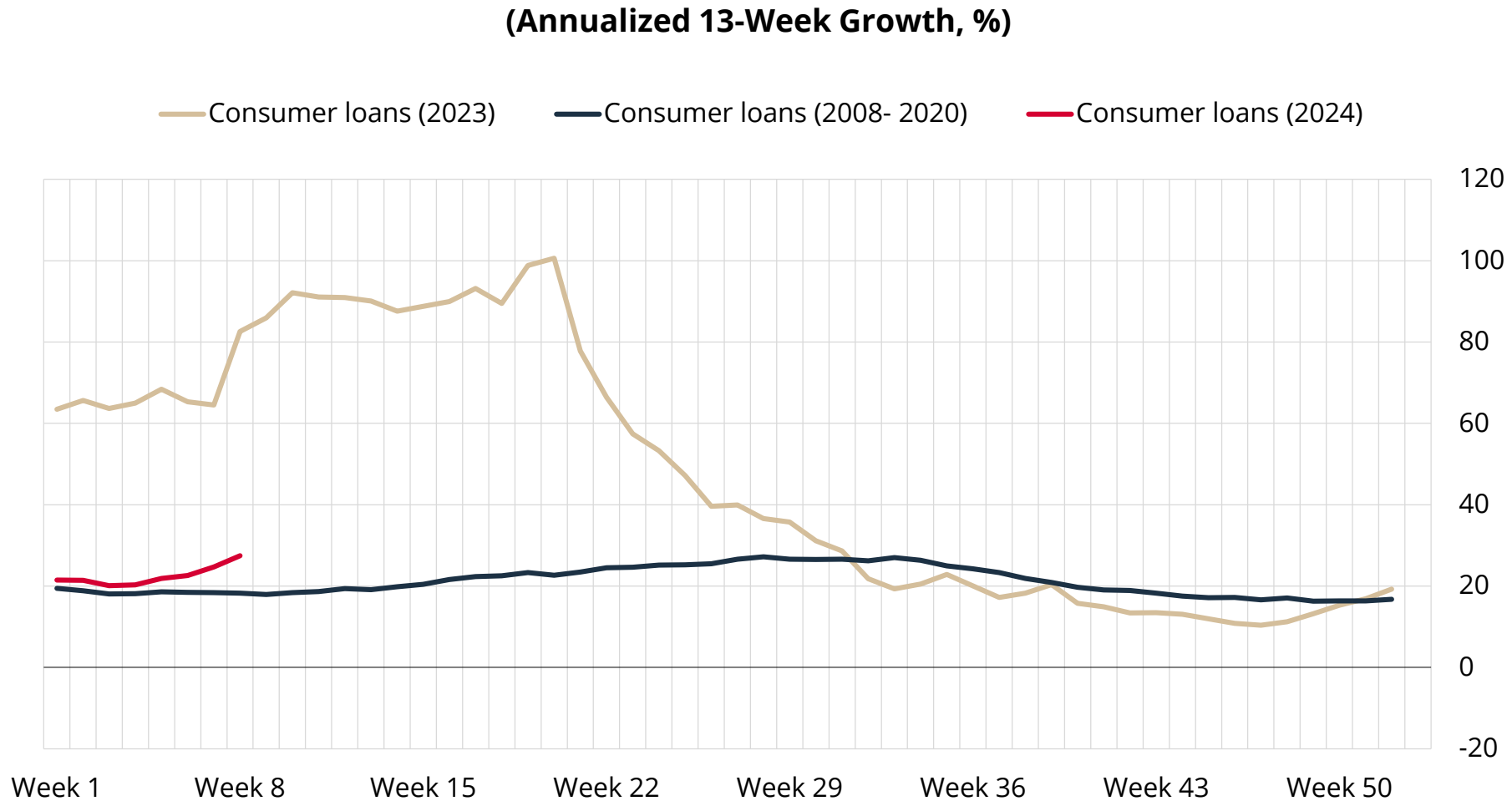
Last Observation: February 23, 2024

The total FX-adjusted credit growth is calculated using the change in TL loans and the change in FX (in terms of currency basket) loans multiplied by the period average of the exchange rate basket. [For the technical note on the exchange rate adjustment methodology, please see.](#)

\* Total banking sector (including participation banks). Loans extended to banks excluded. NPLs excluded.

13 week growth rate of credit stock, adjusted for exchange rate, is annualized.

# Consumer Loans\*

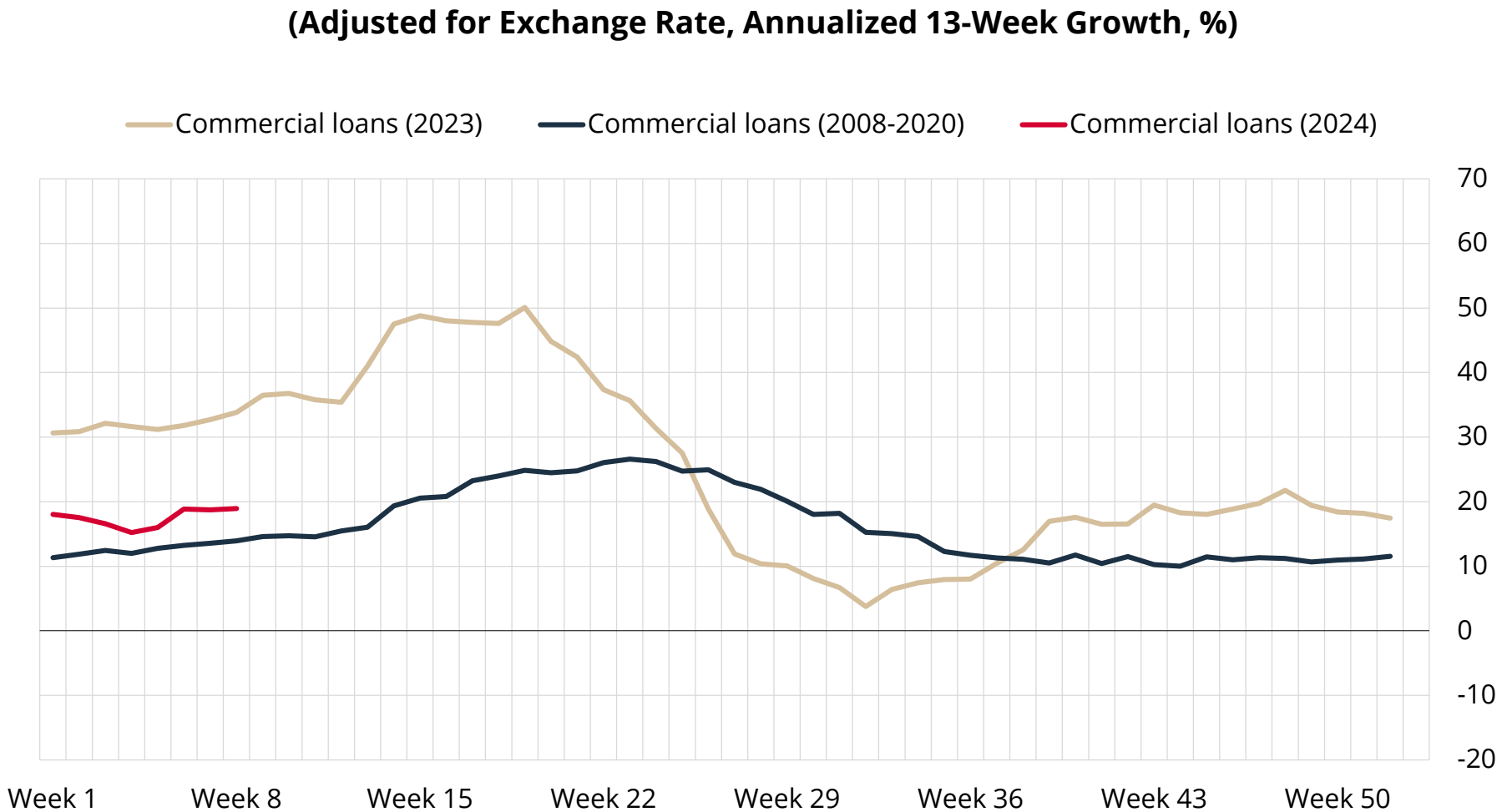


Source: CBRT

Last Observation: February 23, 2024

\* Total banking sector (including participation banks). Loans extended to banks excluded. NPLs excluded. 13 week growth rate of credit stock is annualized.

# Commercial Loans\*



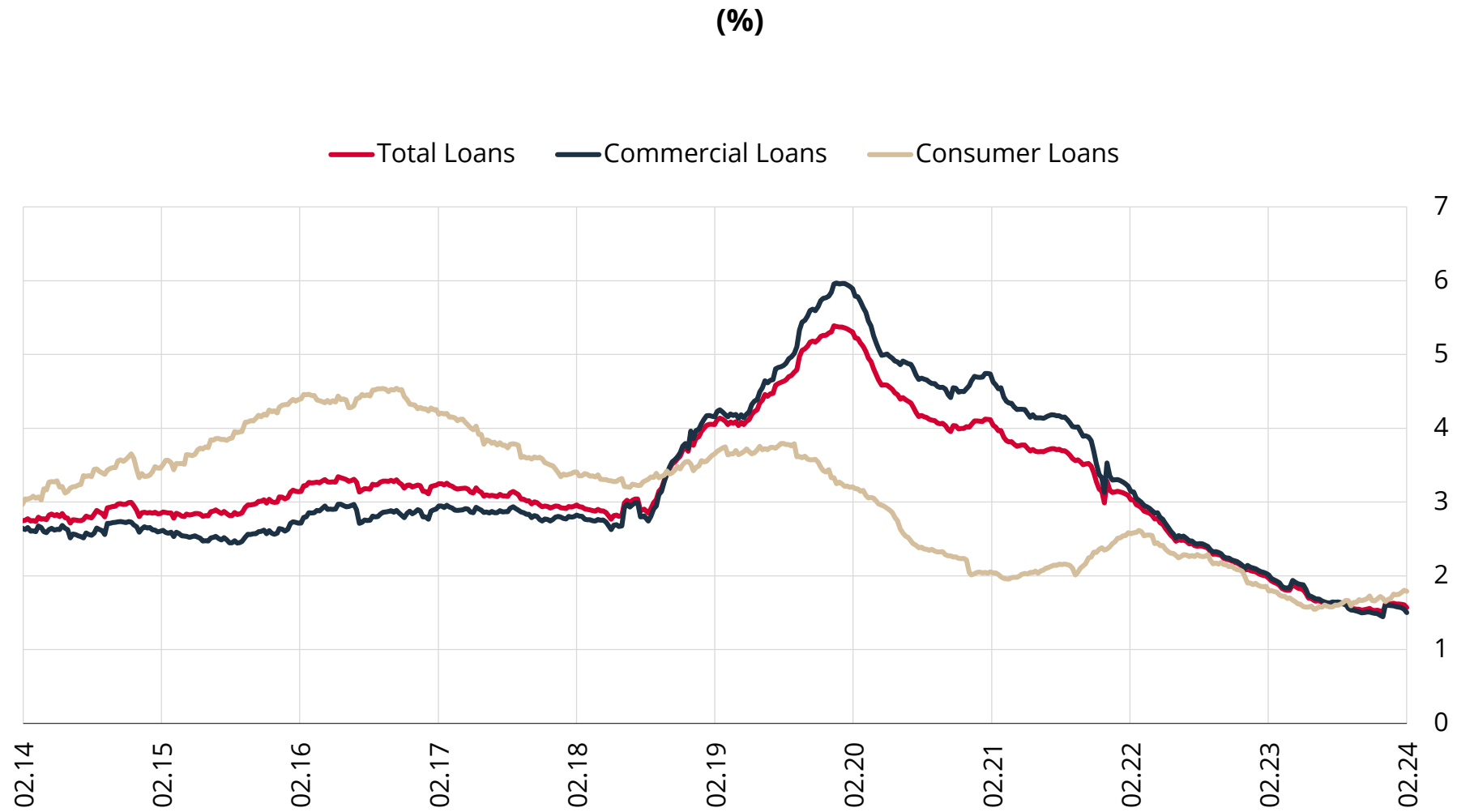
Source: CBRT Last Observation: February 23, 2024

The total FX-adjusted credit growth is calculated using the change in TL loans and the change in FX (in terms of currency basket) loans multiplied by the period average of the exchange rate basket. **For the technical note on the exchange rate adjustment methodology, please see.**

\* Total banking sector (including participation banks). Loans extended to banks excluded. NPLs excluded.

For commercial loans 13 week growth rate of credit stock, adjusted for exchange rate, is annualized.

# Non-Performing Loans

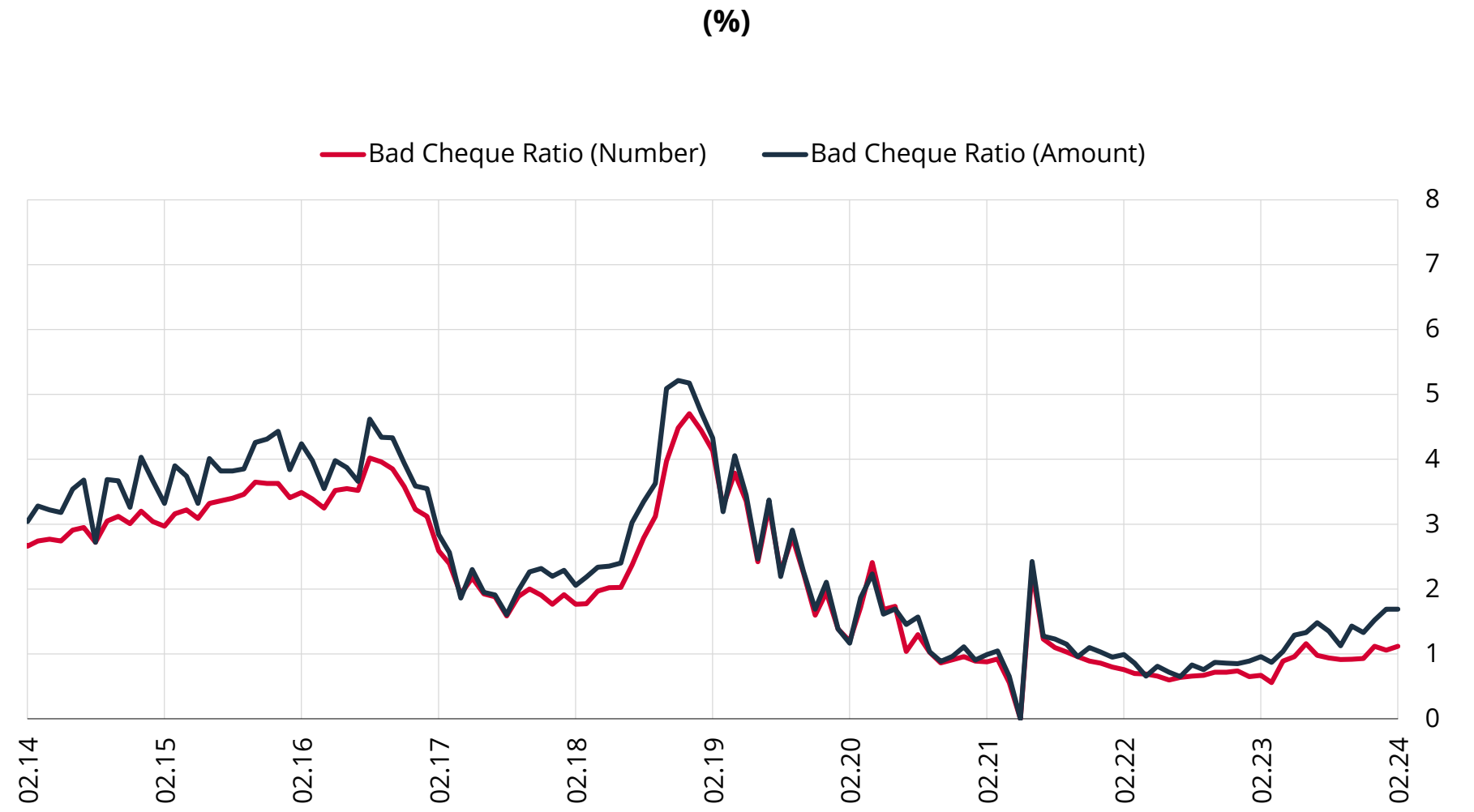


Source: CBRT

Last Observation: February 23, 2024



# Bad Cheque Ratio

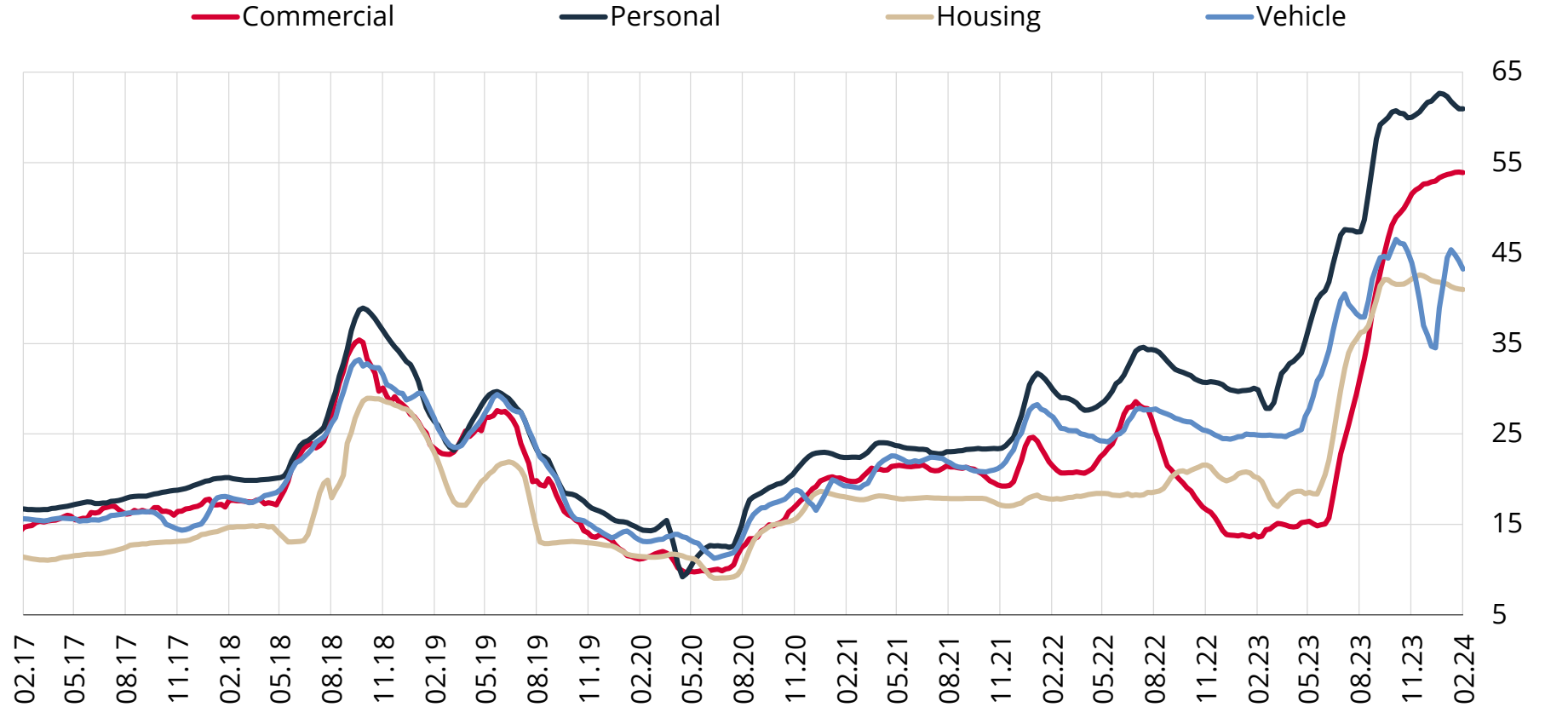


Source: CBRT

Last Observation: February 2024

# Loan Rates

(Flow, Annualized, %, 4 Week-Average)

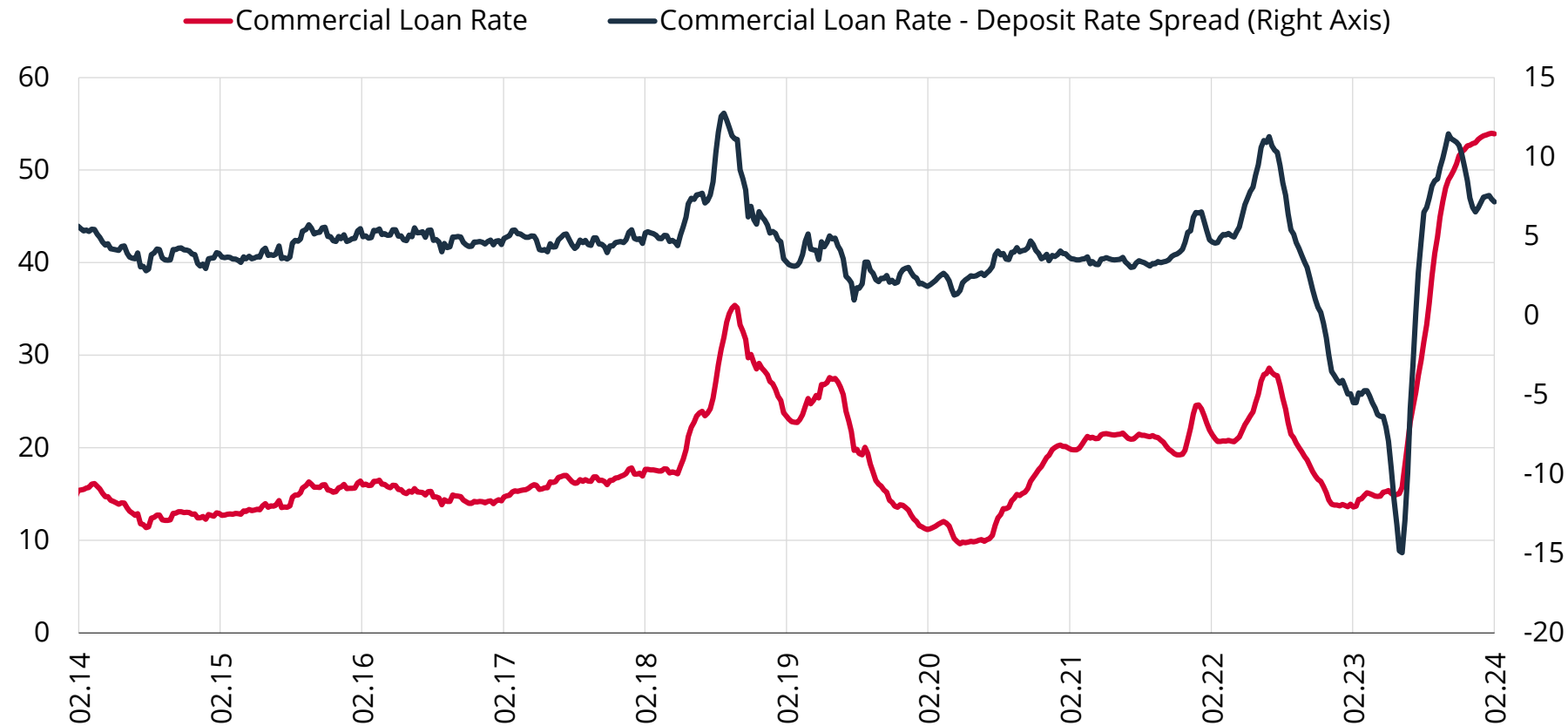


Source: CBRT

Last Observation: February 23, 2024

# Loan Rates

(Flow, %, 4 Week-Average)

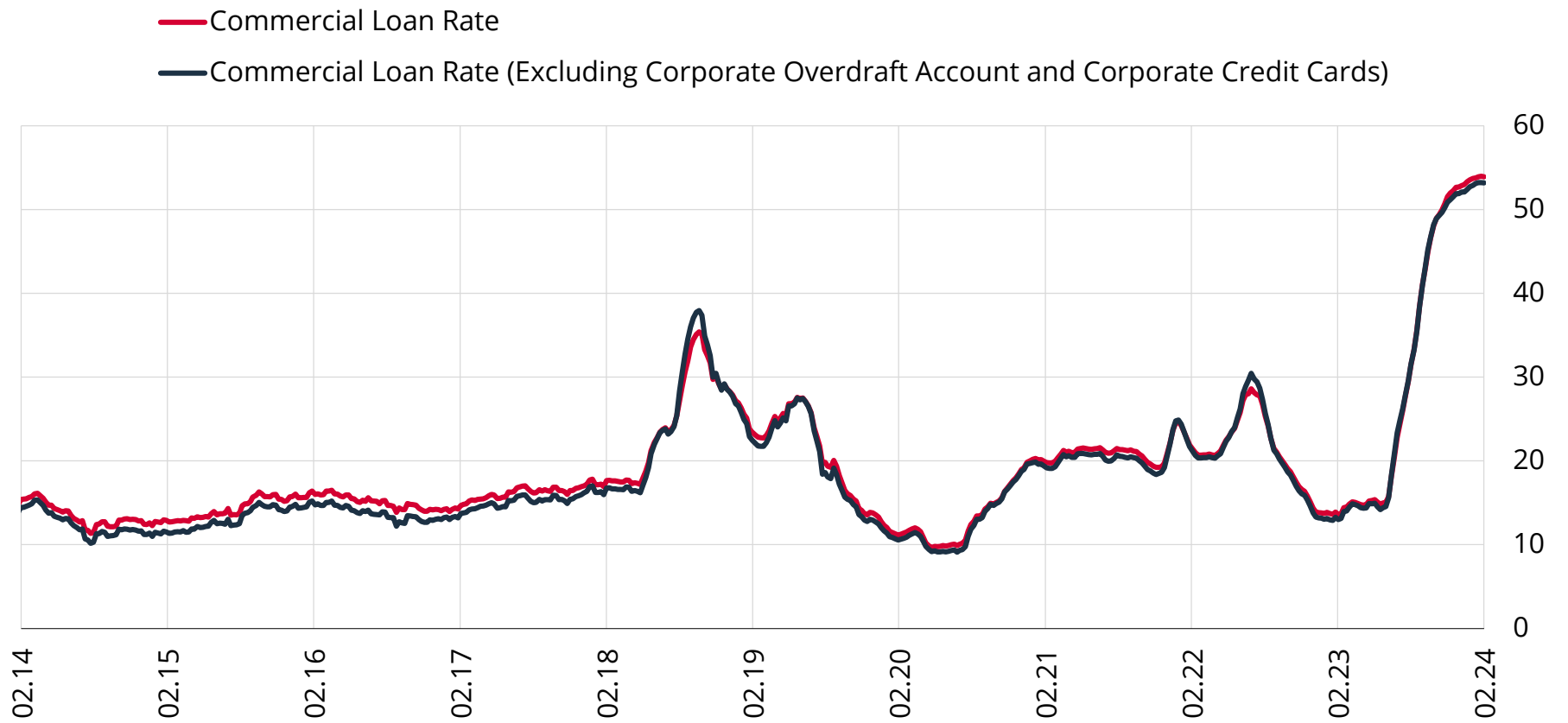


Source: CBRT

Last Observation: February 23, 2024

# Loan Rates

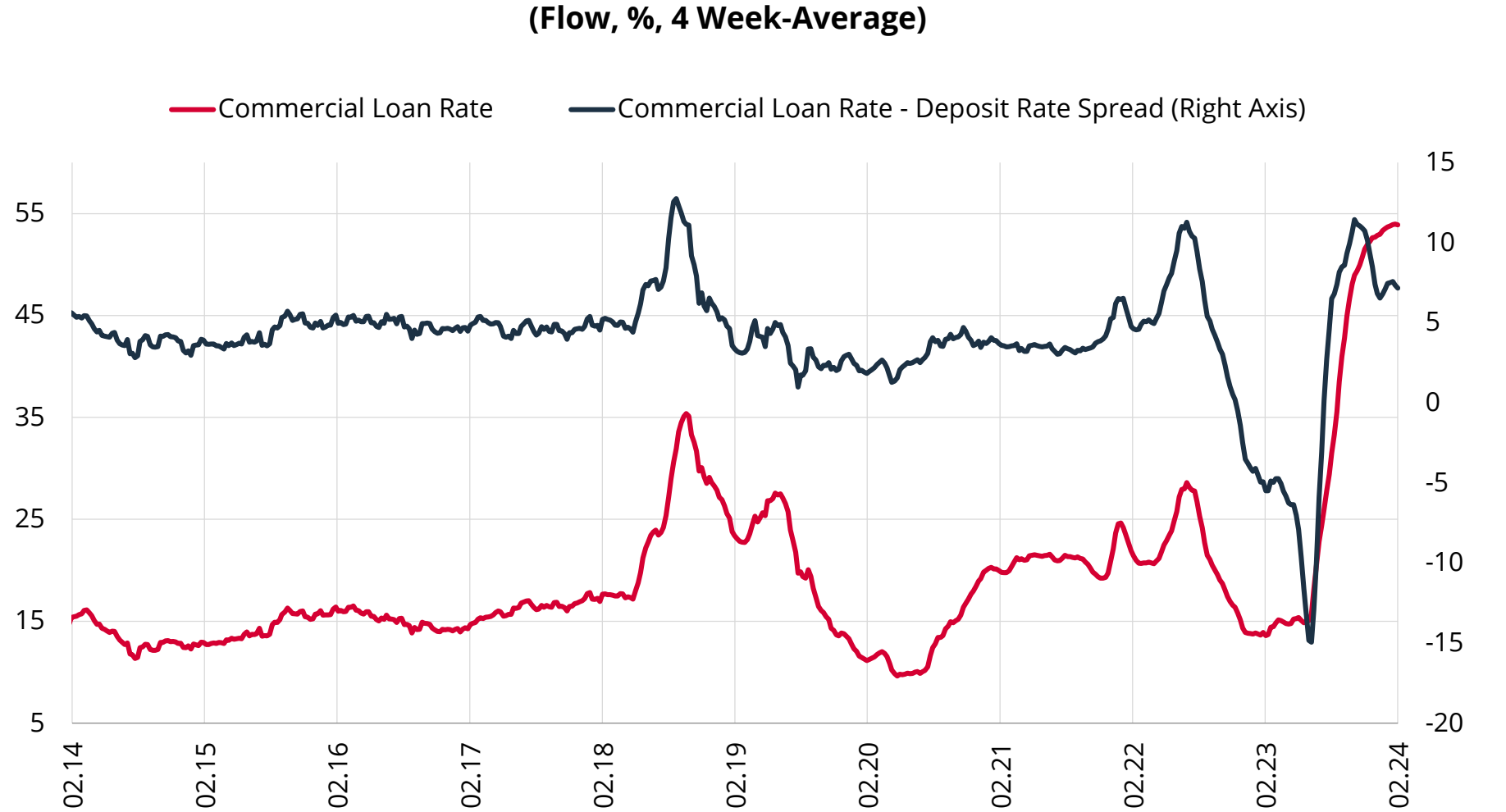
(Flow, %, 4 Week-Average)



Source: CBRT

Last Observation: February 23, 2024

# TL Commercial Loan Rate- Deposit Rate Spread

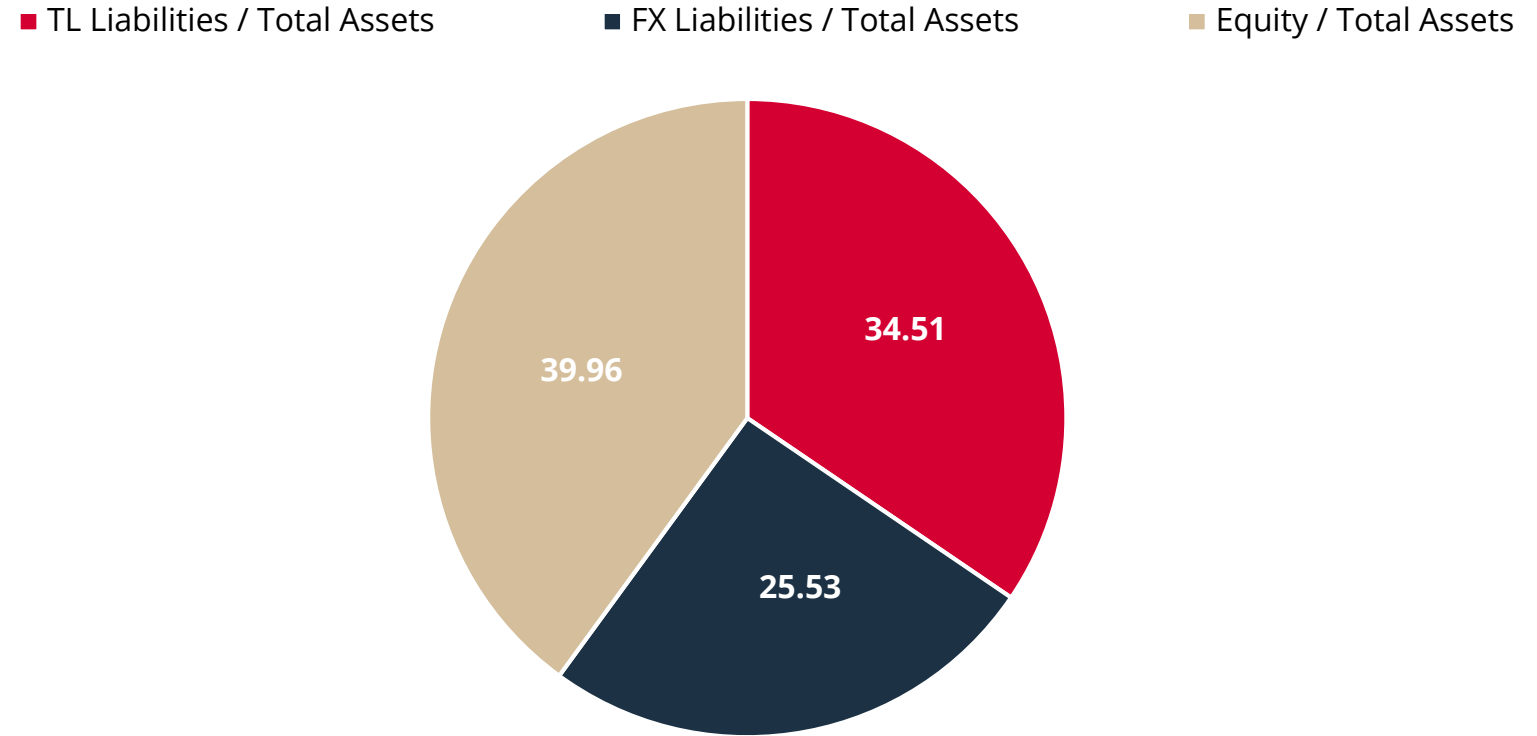


Source: CBRT

Last Observation: February 23, 2024

# Indebtedness and Leverage Ratios of Non-Financial Companies Listed on BIST

Liabilities and Equity to Total Assets ( % Share)<sup>1,2</sup>



Source: CBRT

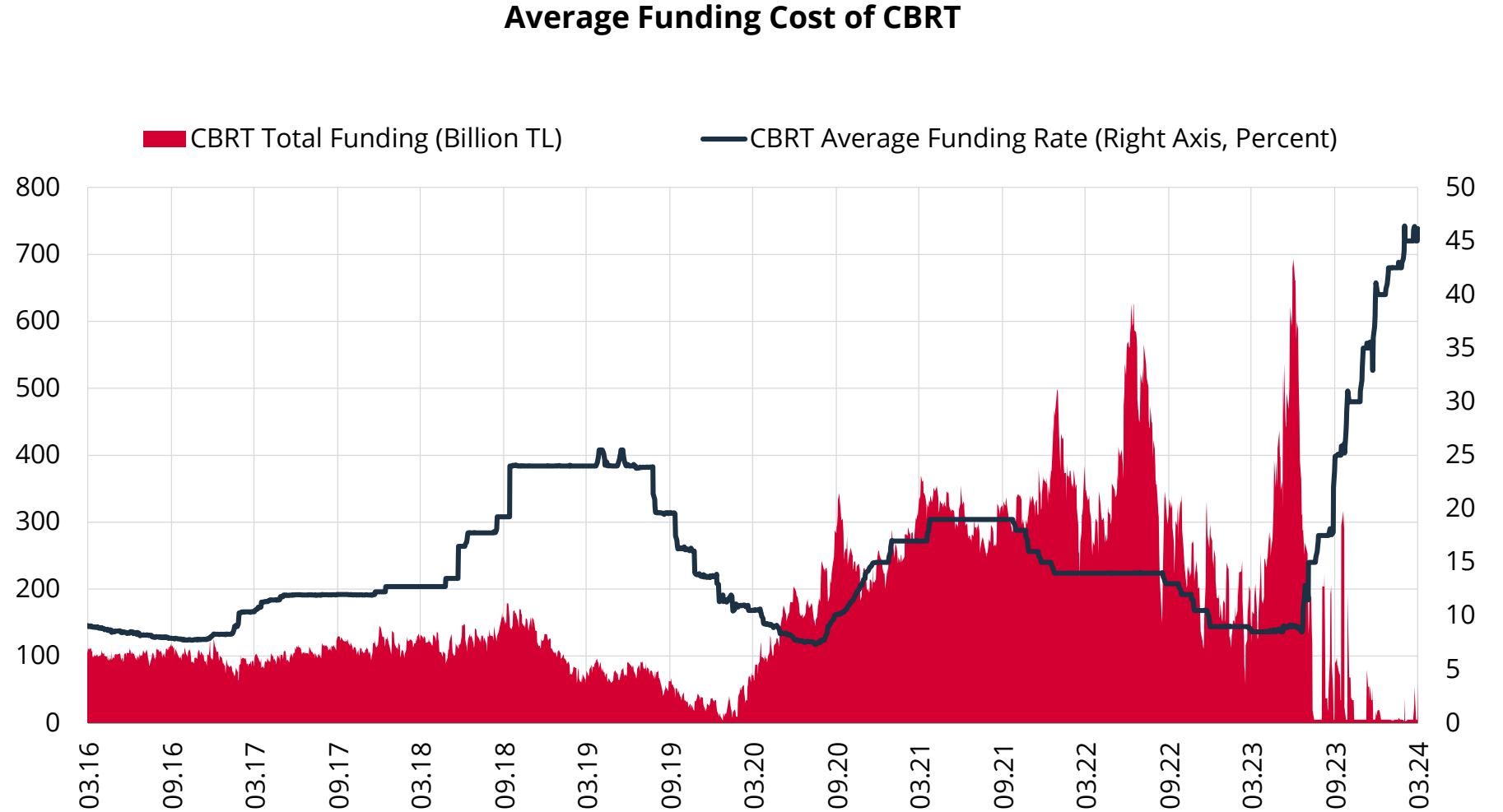
Last Observation: September 2023

<sup>1</sup> Including data for 400 non-financial corporations listed on BIST.

<sup>2</sup> Non-financial companies using FX functional currency, financial institutions and conglomerates are excluded from this sample.

# **FINANCIAL MARKETS DEVELOPMENTS**

# Average Funding Cost of CBRT

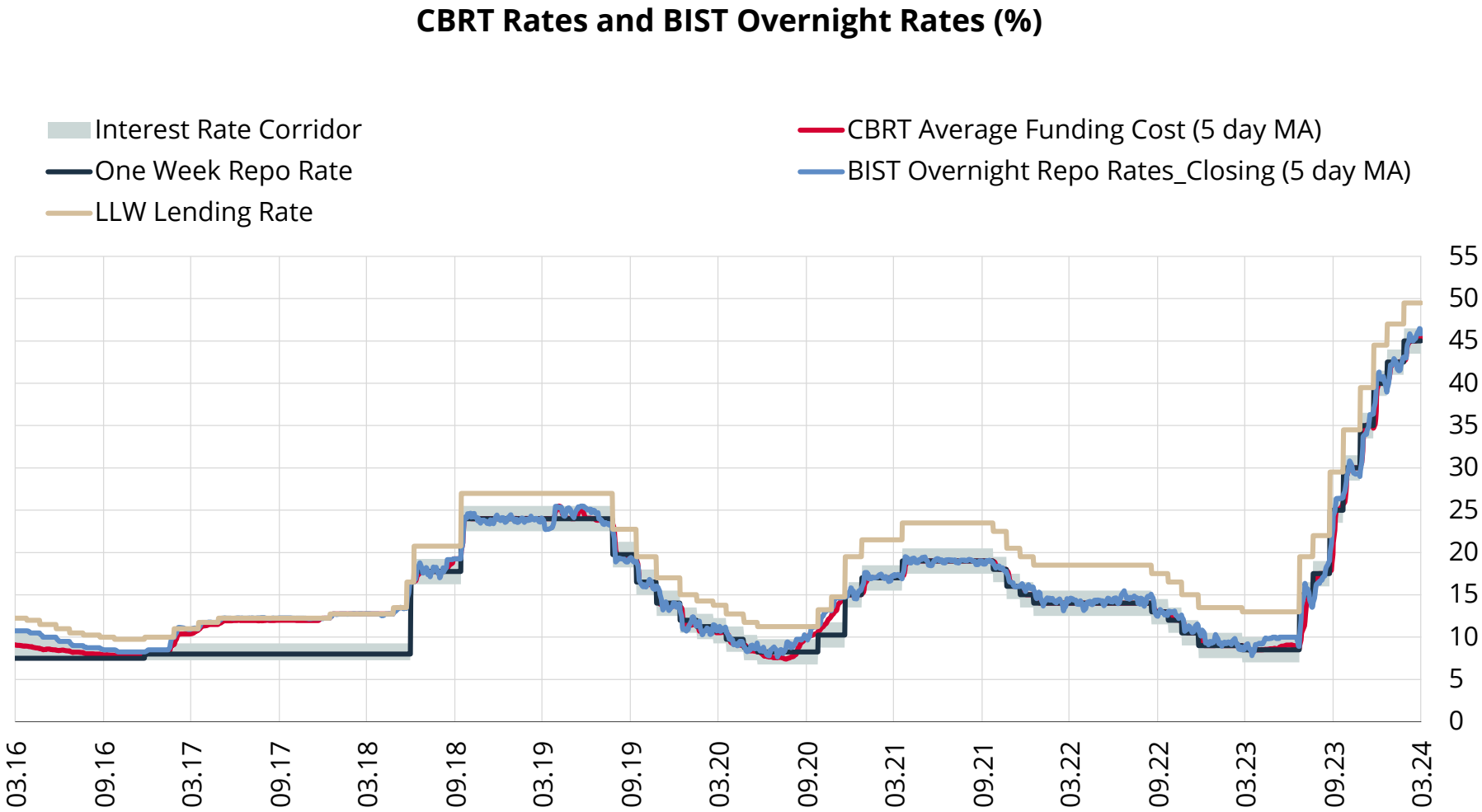


Source: CBRT

Observation Date: March 1, 2024



# CBRT Rates and BIST Overnight Rates

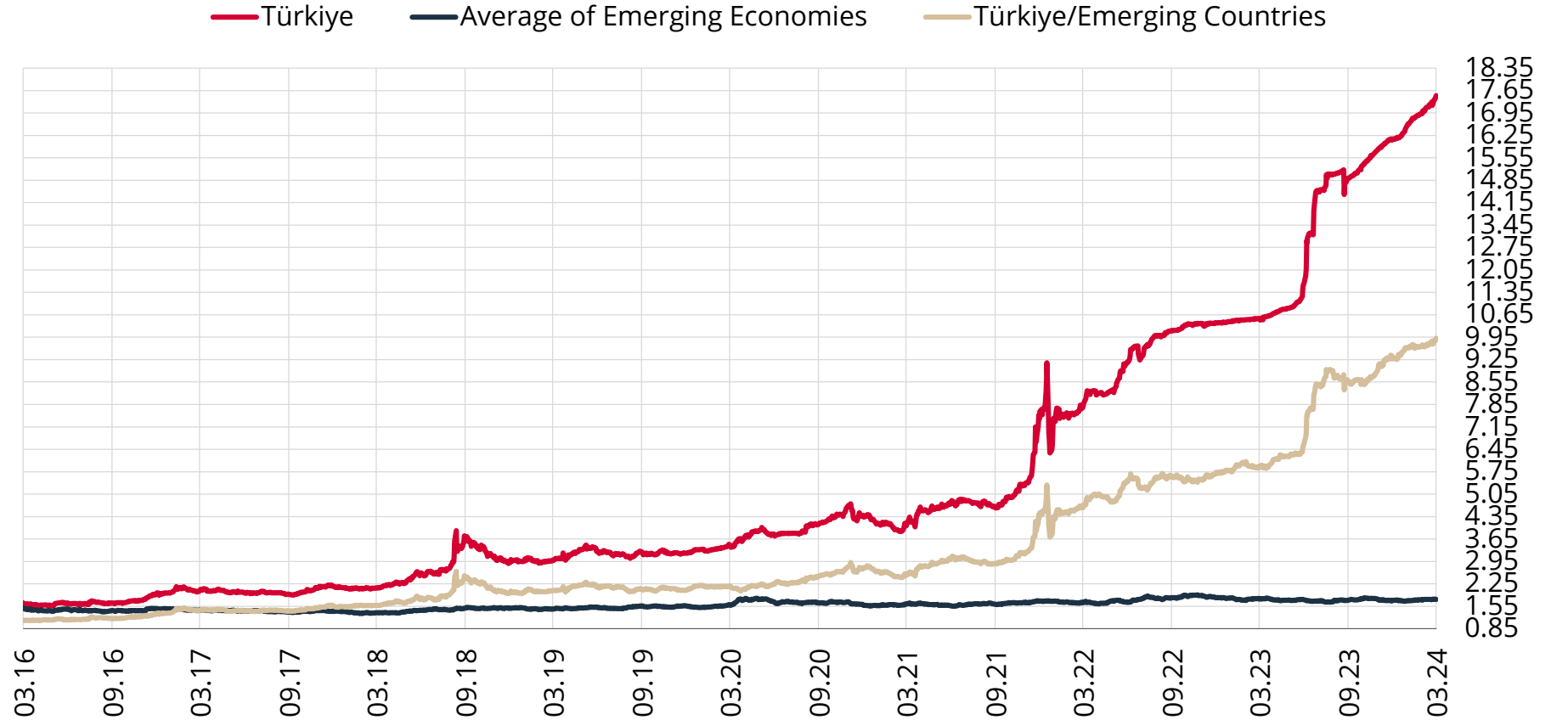


Source: CBRT

Observation Date: March 1, 2024

# Turkish Lira and Emerging Market Currencies

Turkish Lira and Emerging Market Currencies (01.11.2011=1, values vis-a-vis USD)

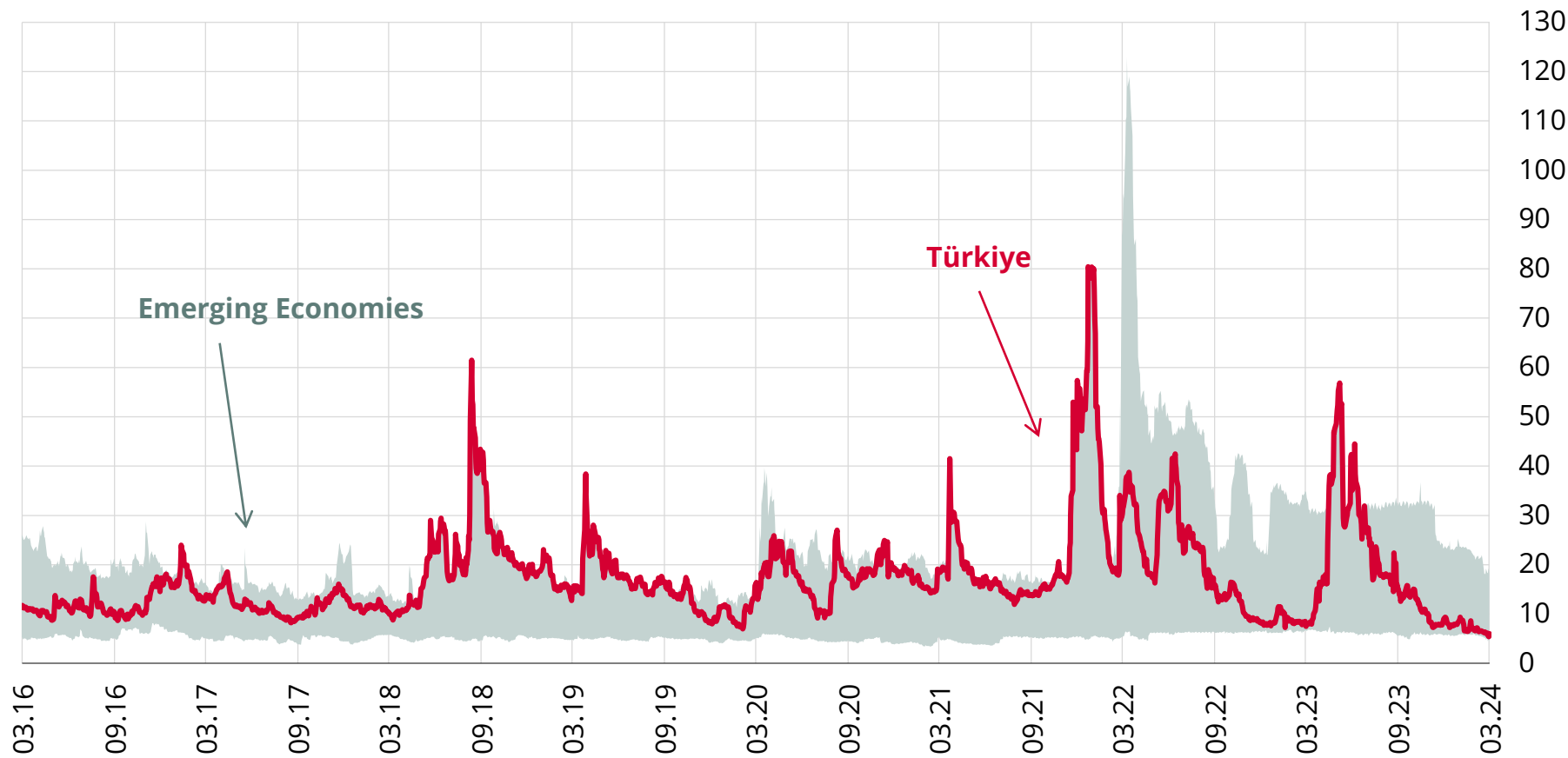


Source: Bloomberg, CBRT

Observation Date: March 1, 2024

# Implied FX Volatility

Implied FX Volatility (1 month)

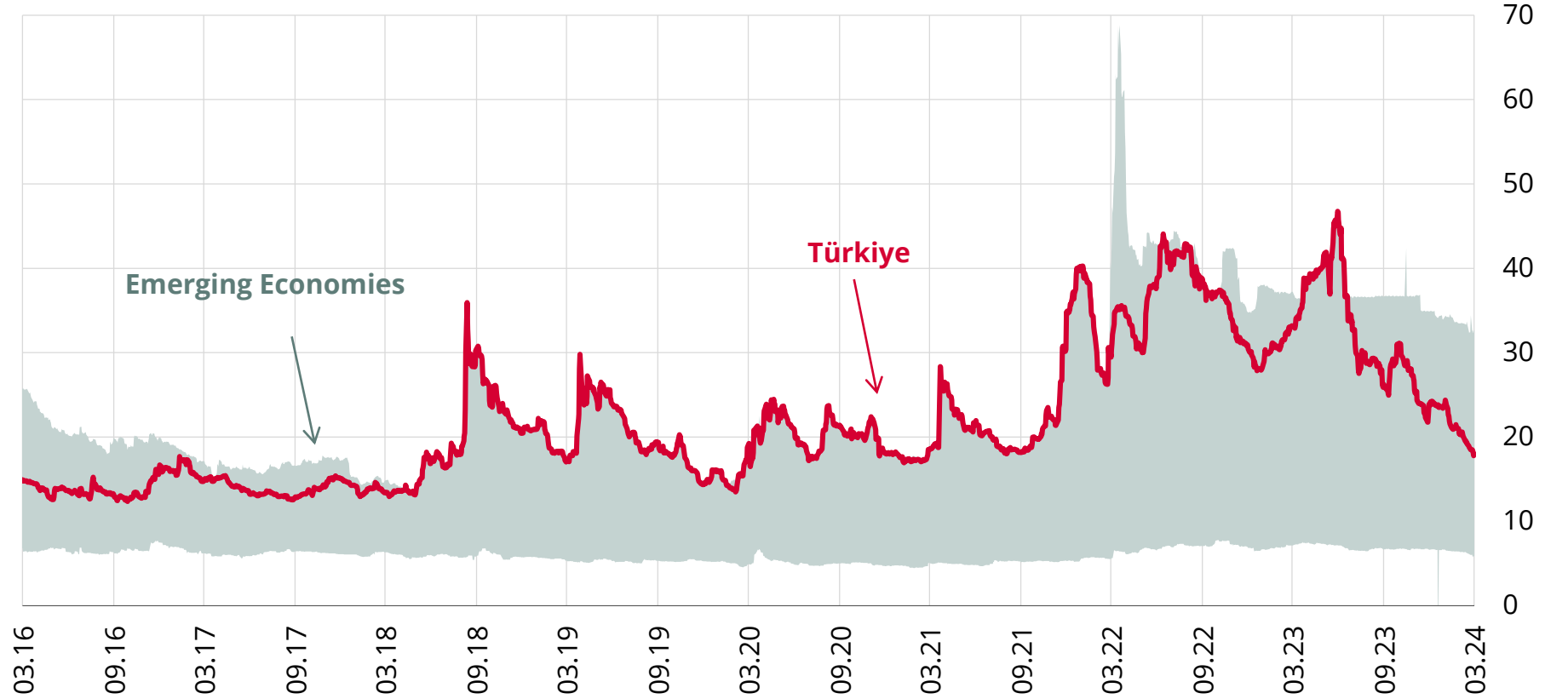


Source: Bloomberg

Observation Date: March 1, 2024

# Implied FX Volatility

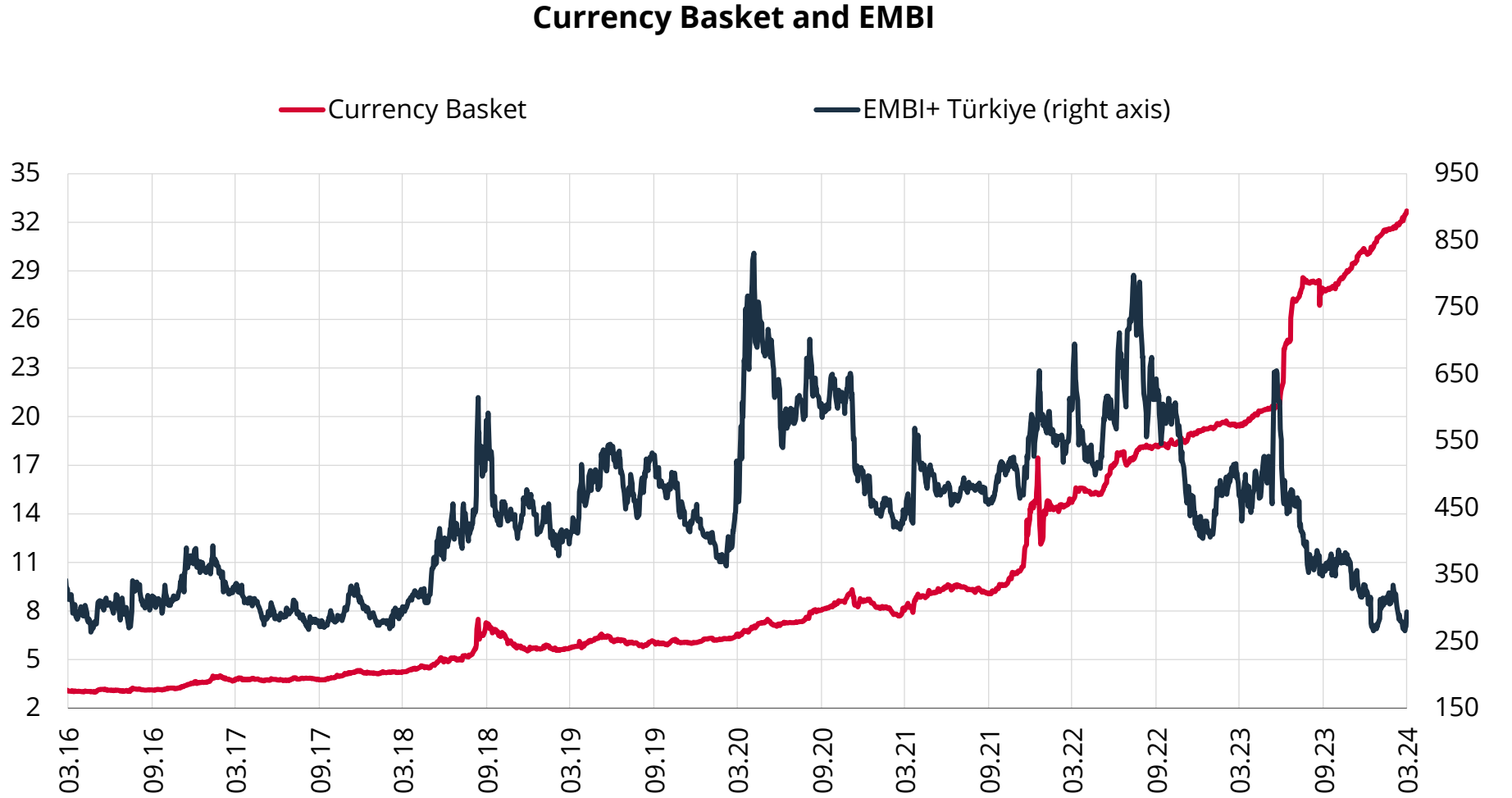
## Implied FX Volatility (12 months)



Source: Bloomberg

Observation Date: March 1, 2024

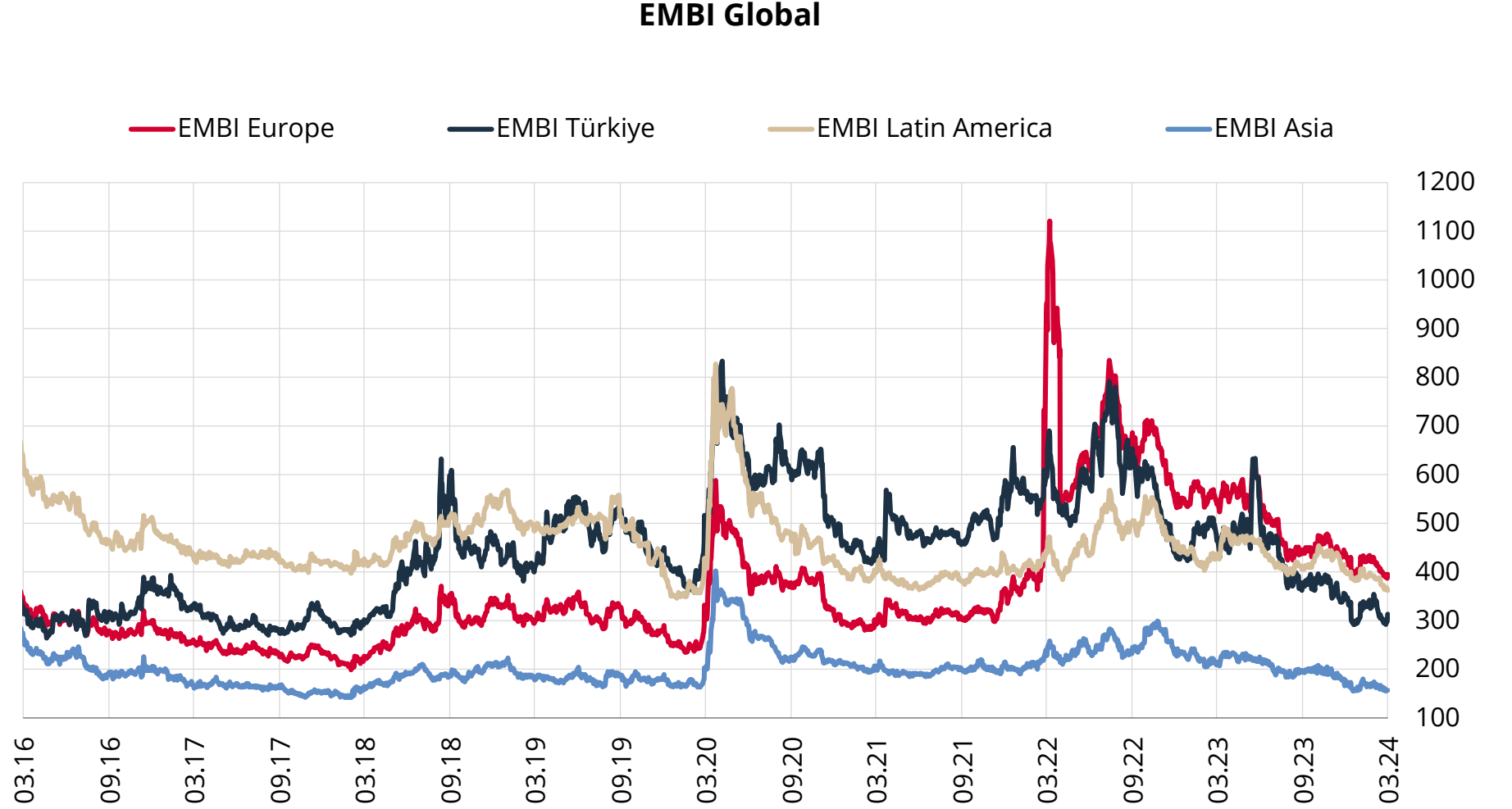
# Currency Basket and EMBI



Source: Bloomberg, CBRT

Observation Date: March 1, 2024

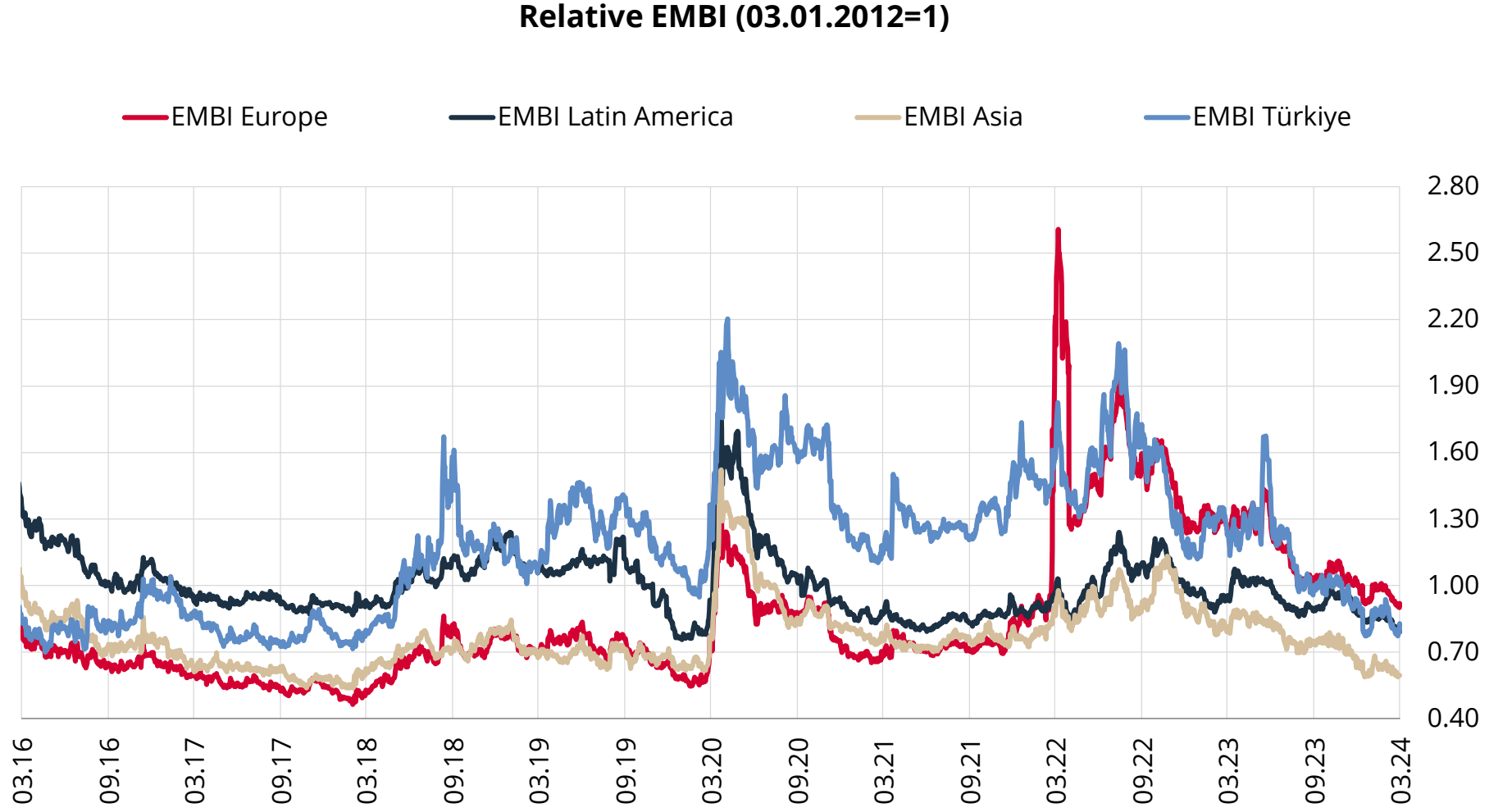
# EMBI Global



Source: Bloomberg

Observation Date: March 1, 2024

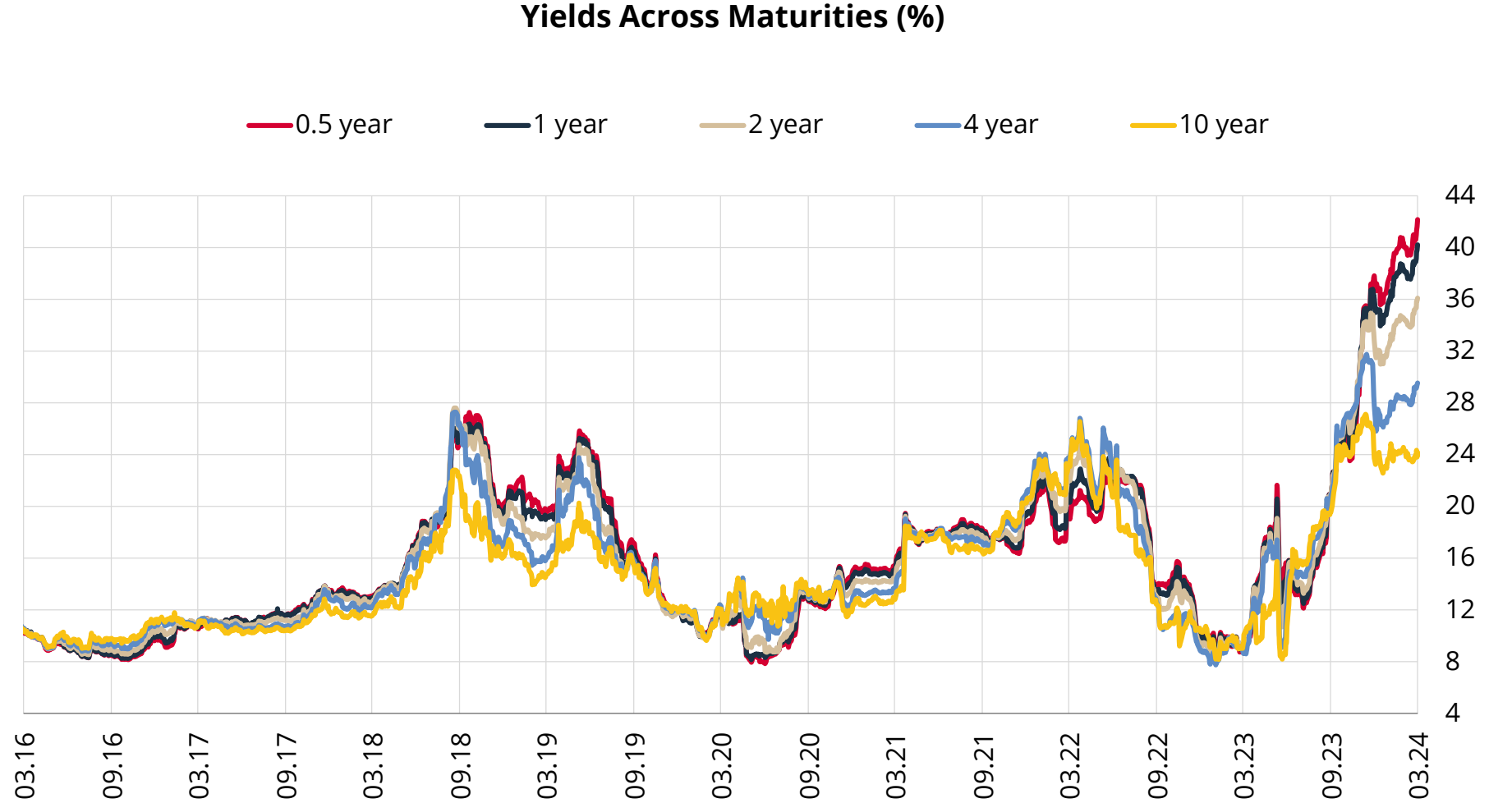
# Relative EMBI



Source: Bloomberg

Observation Date: March 1, 2024

# Yields Across Maturities



Source: Bloomberg

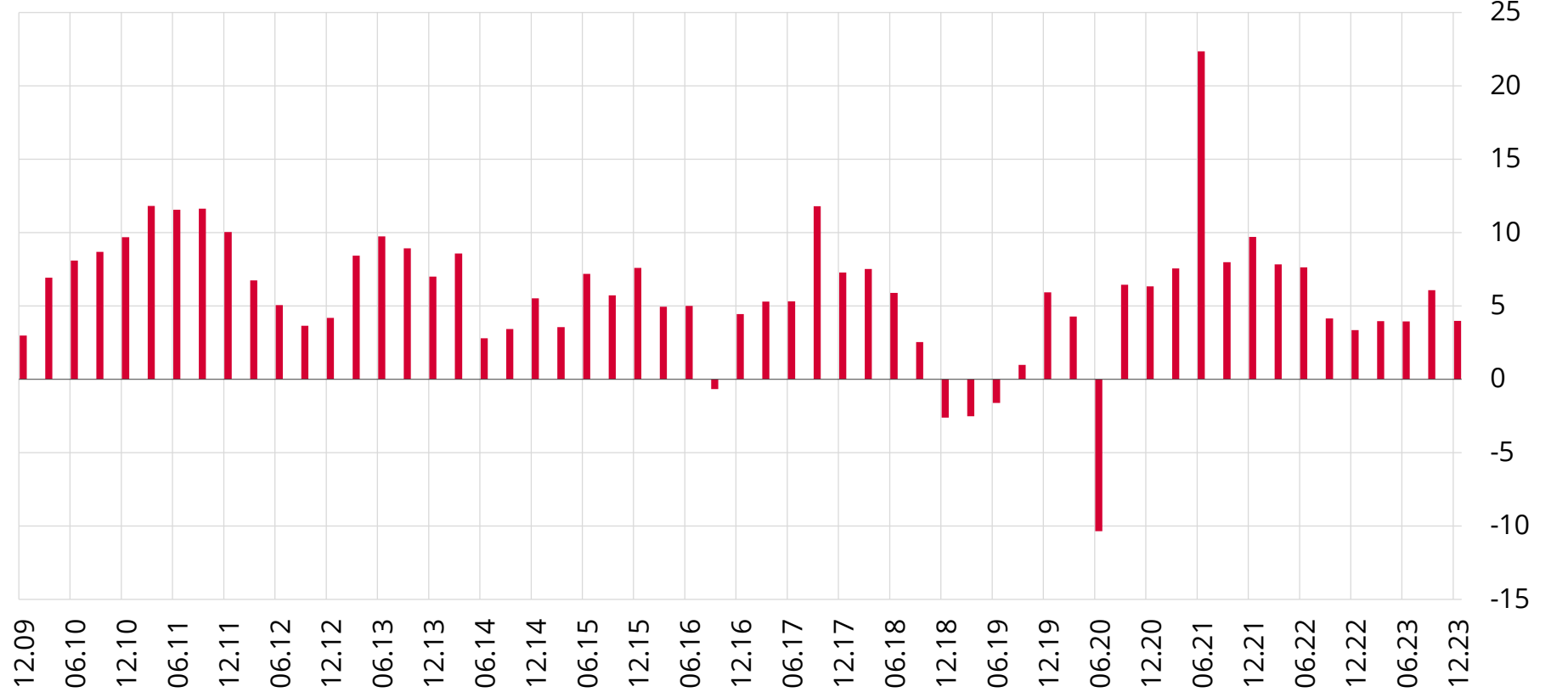
Observation Date: March 1, 2024



# **ECONOMIC ACTIVITY DEVELOPMENTS**

# Annual GDP Growth

(% Change)

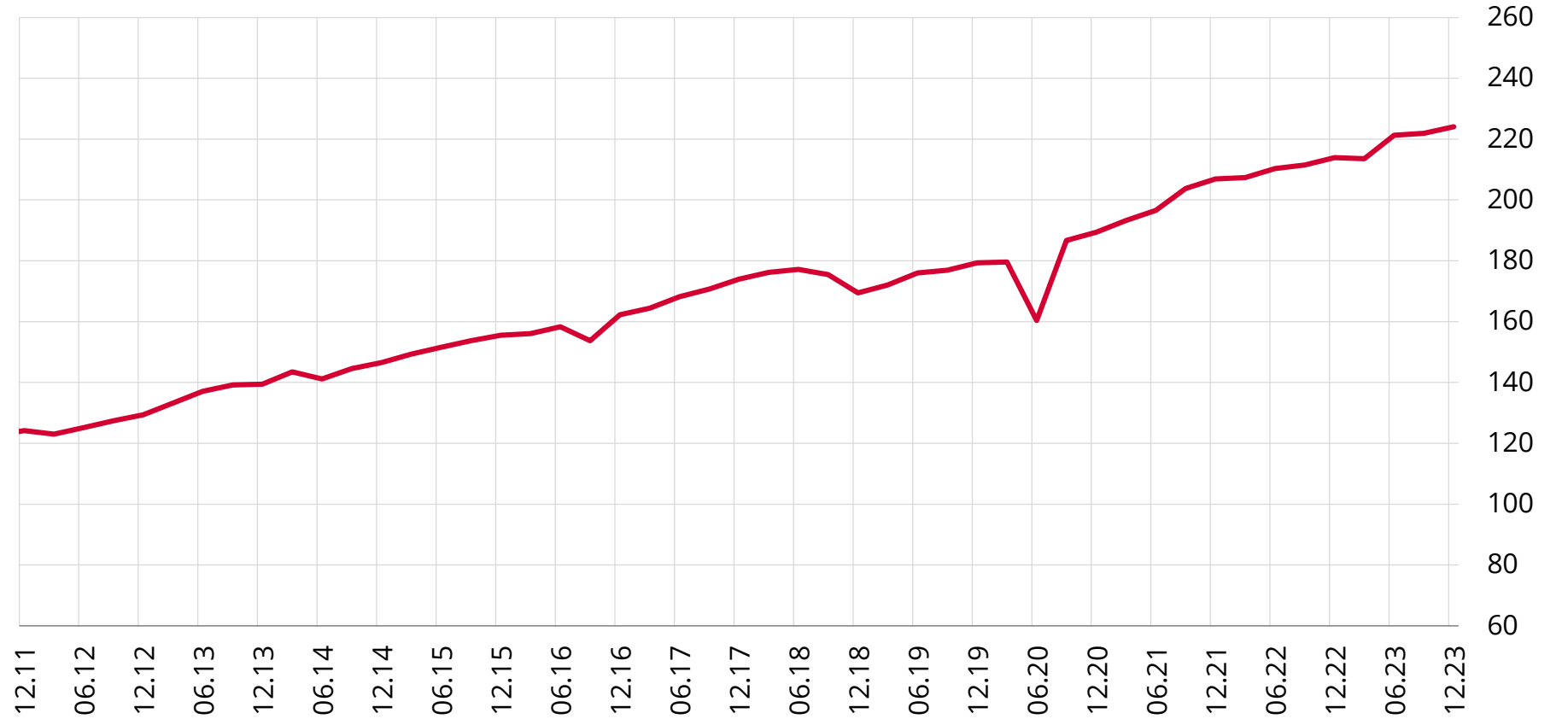


Source: TURKSTAT

Last Observation: 2023Q4

# GDP

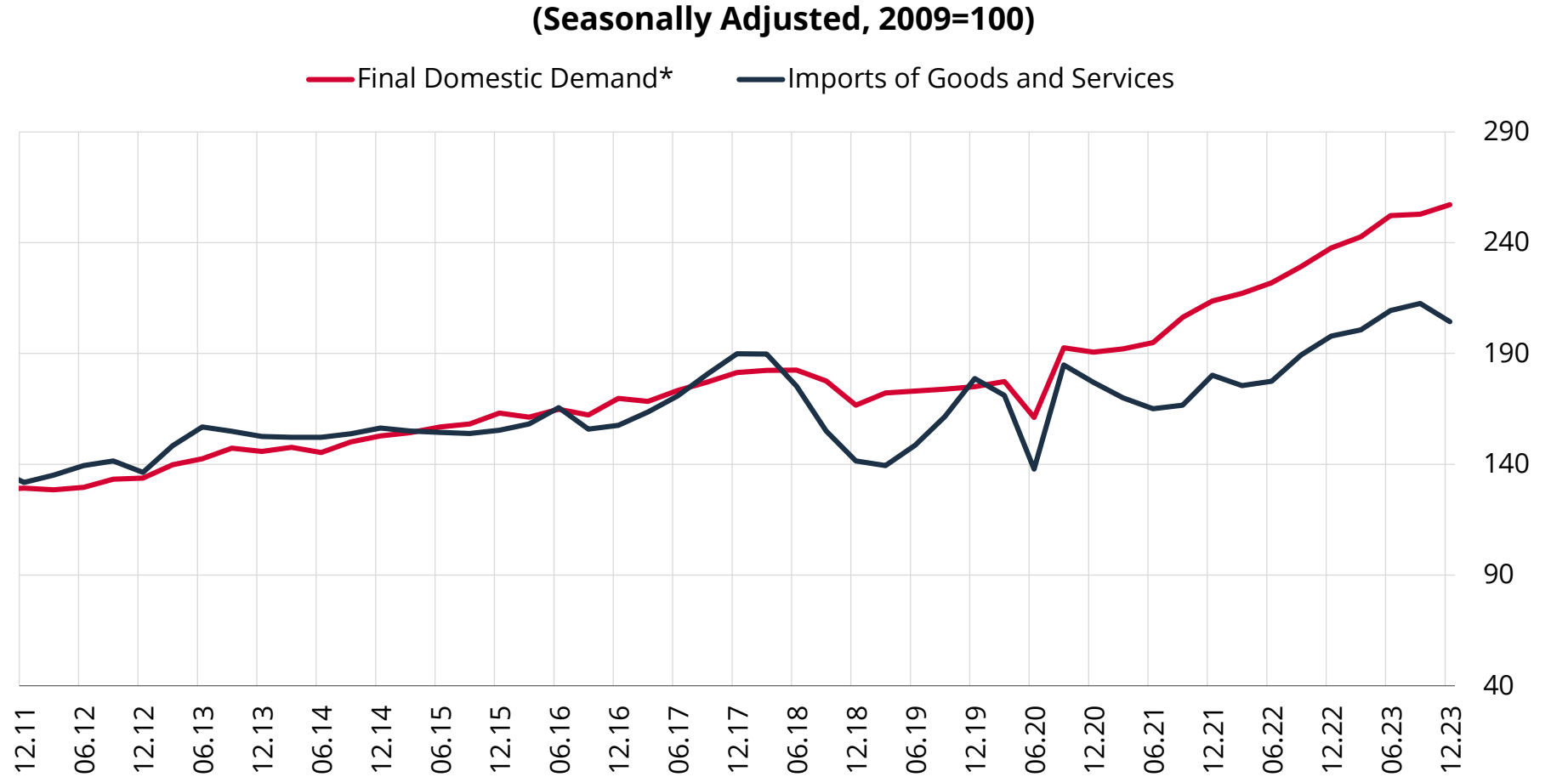
(Seasonally Adjusted, 2009=100)



Source: TURKSTAT

Last Observation: 2023Q4

# Final Domestic Demand and Imports



Source: CBRT, TURKSTAT

Last Observation: 2023Q4

\* Final domestic demand approximately calculated by CBRT

# Imports and Exports

(Seasonally Adjusted, 2009=100)

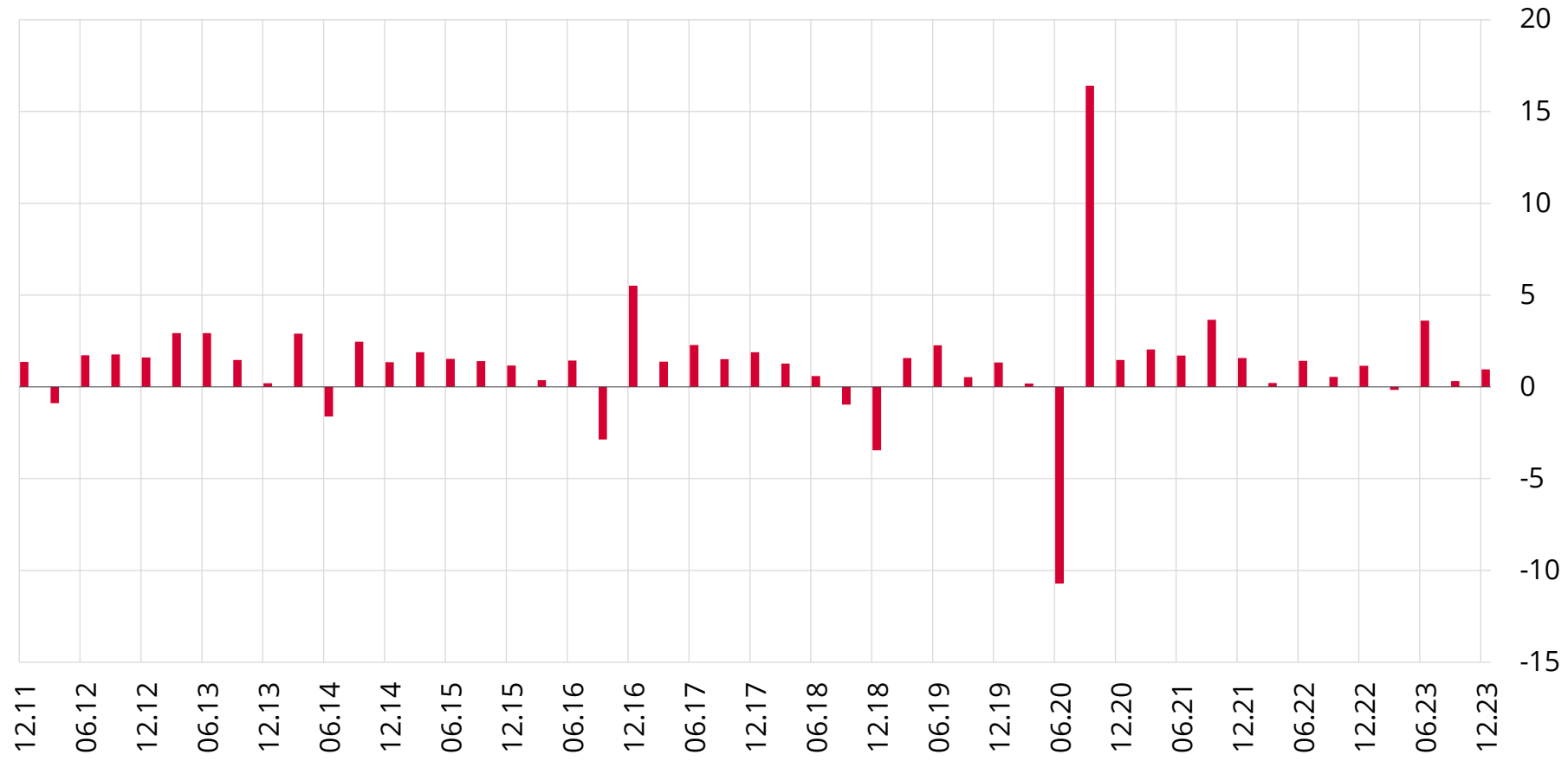


Source: TURKSTAT

Last Observation: 2023Q4

# Quarterly Growth of GDP

(Seasonally Adjusted, %)

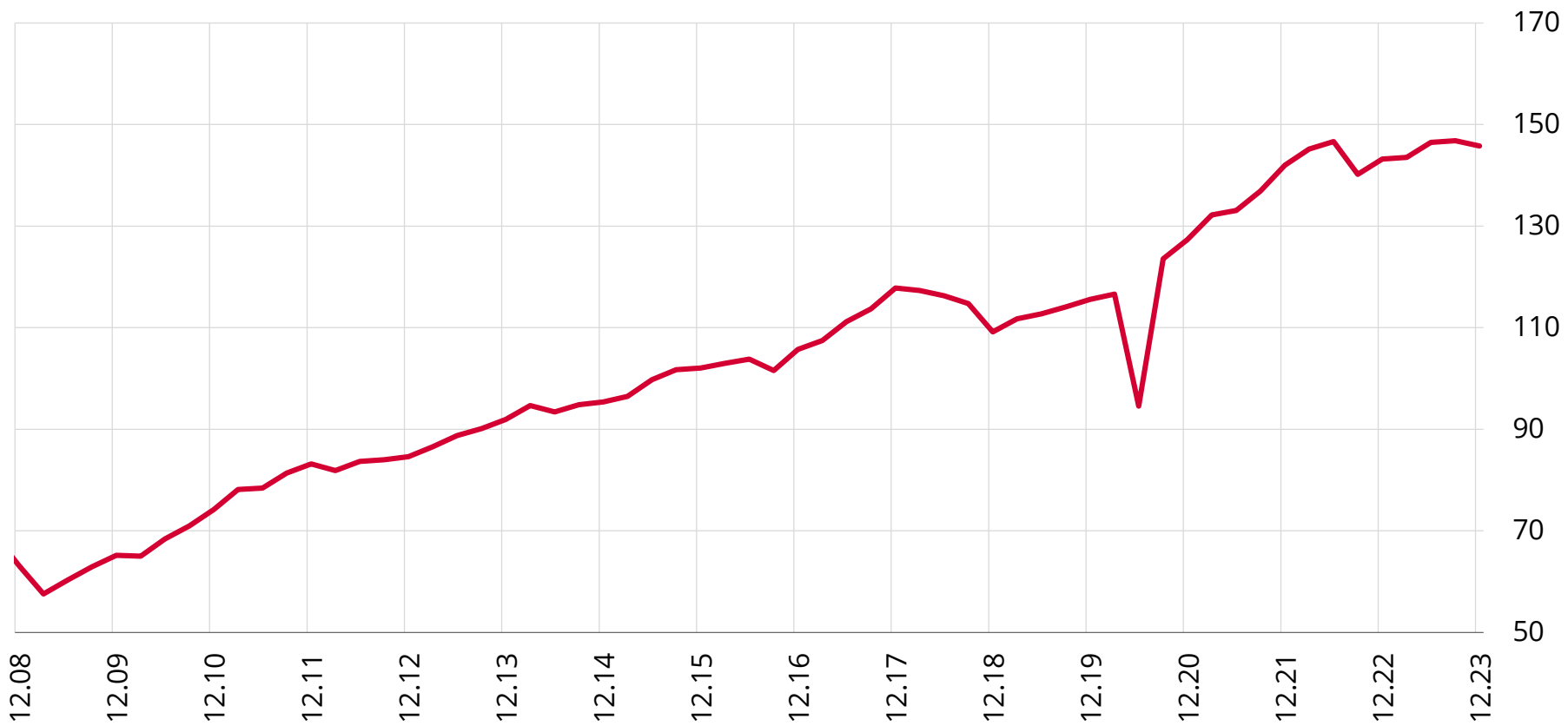


Source: TURKSTAT

Last Observation: 2023Q4

# Industrial Production Index

(Seasonally Adjusted, Quarterly Average, 2015=100)

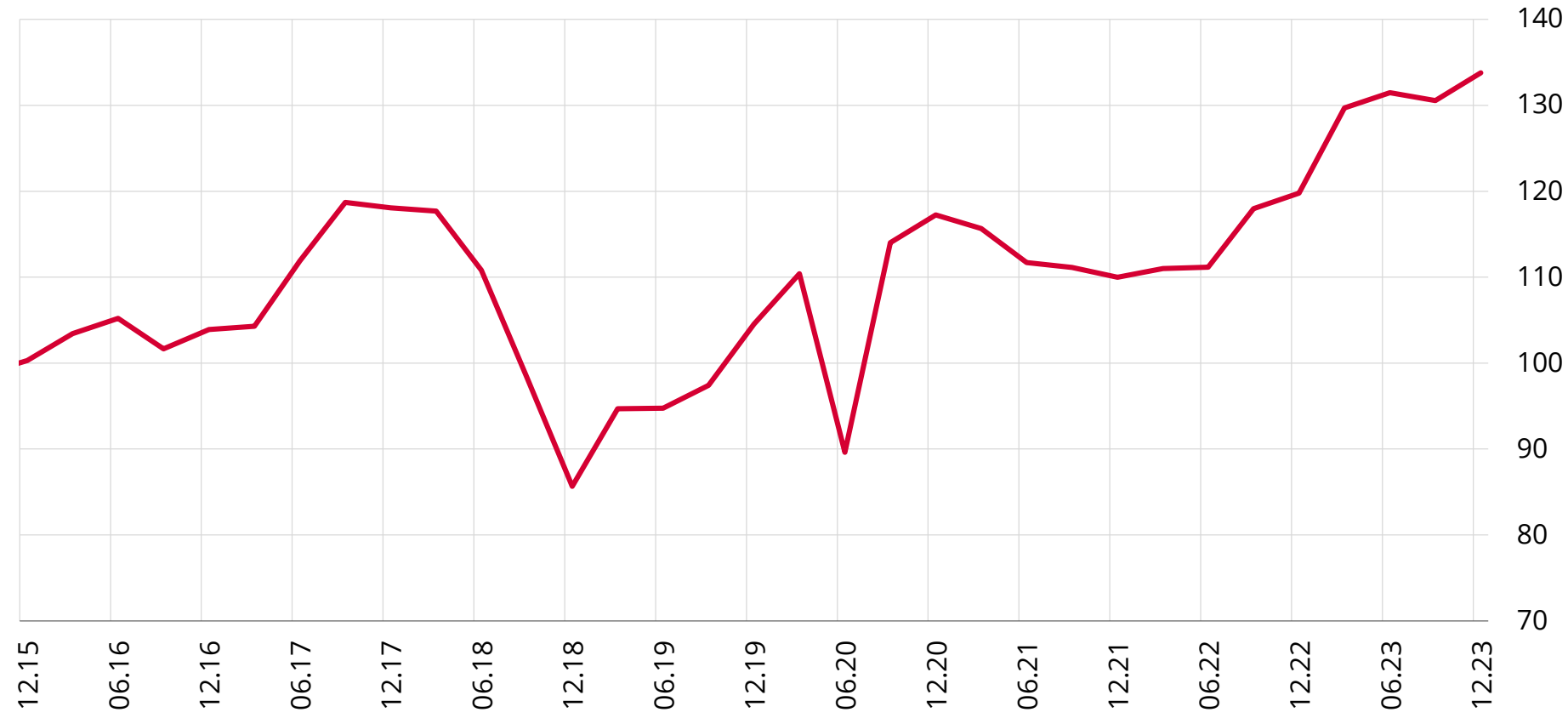


Source: TURKSTAT

Last Observation: December 2023

# Import Quantity Index

(Seasonally Adjusted, Quarterly Average, 2015=100)



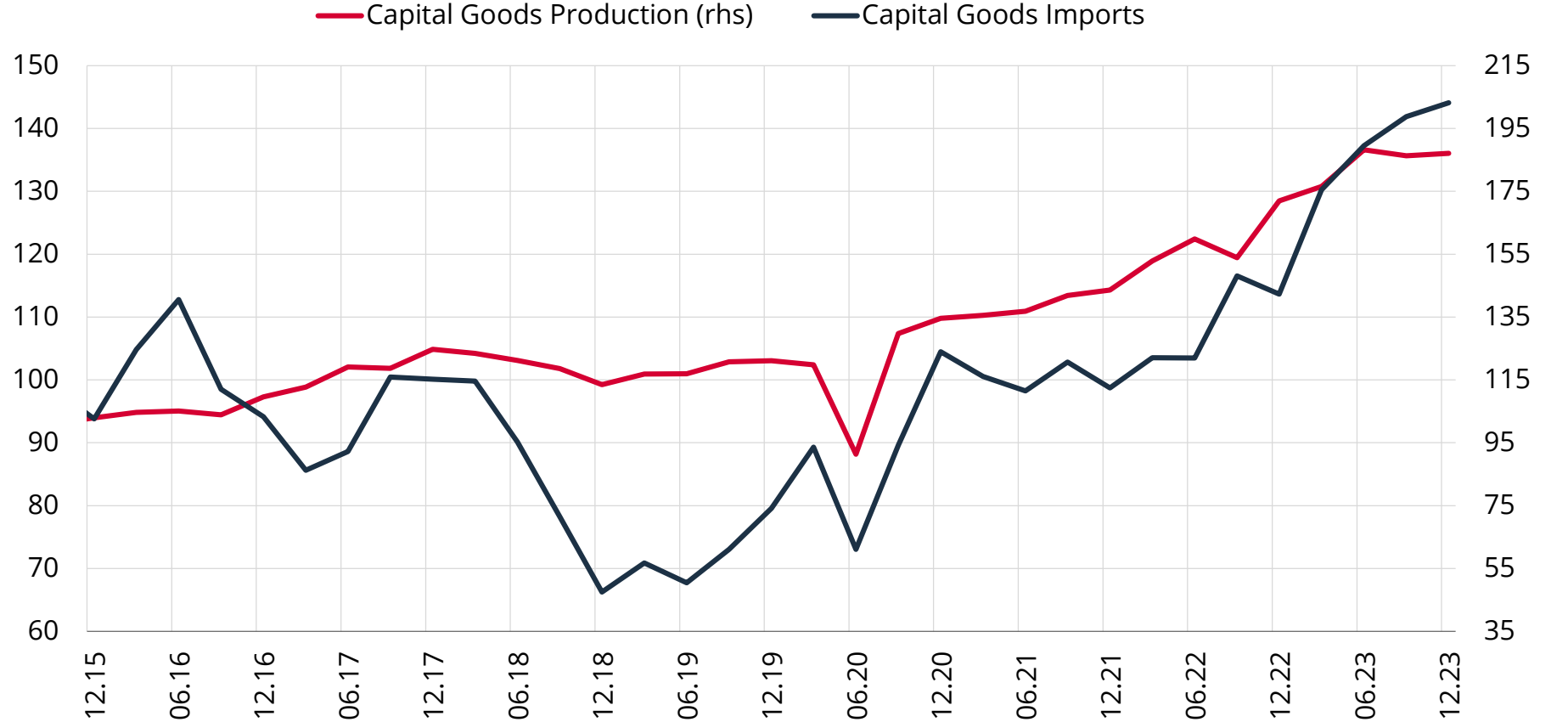
Source: TURKSTAT

Last Observation: December 2023



# Capital Goods Production and Imports

(Seasonally Adjusted, Quarterly Average, Production 2015=100, Imports 2015=100)

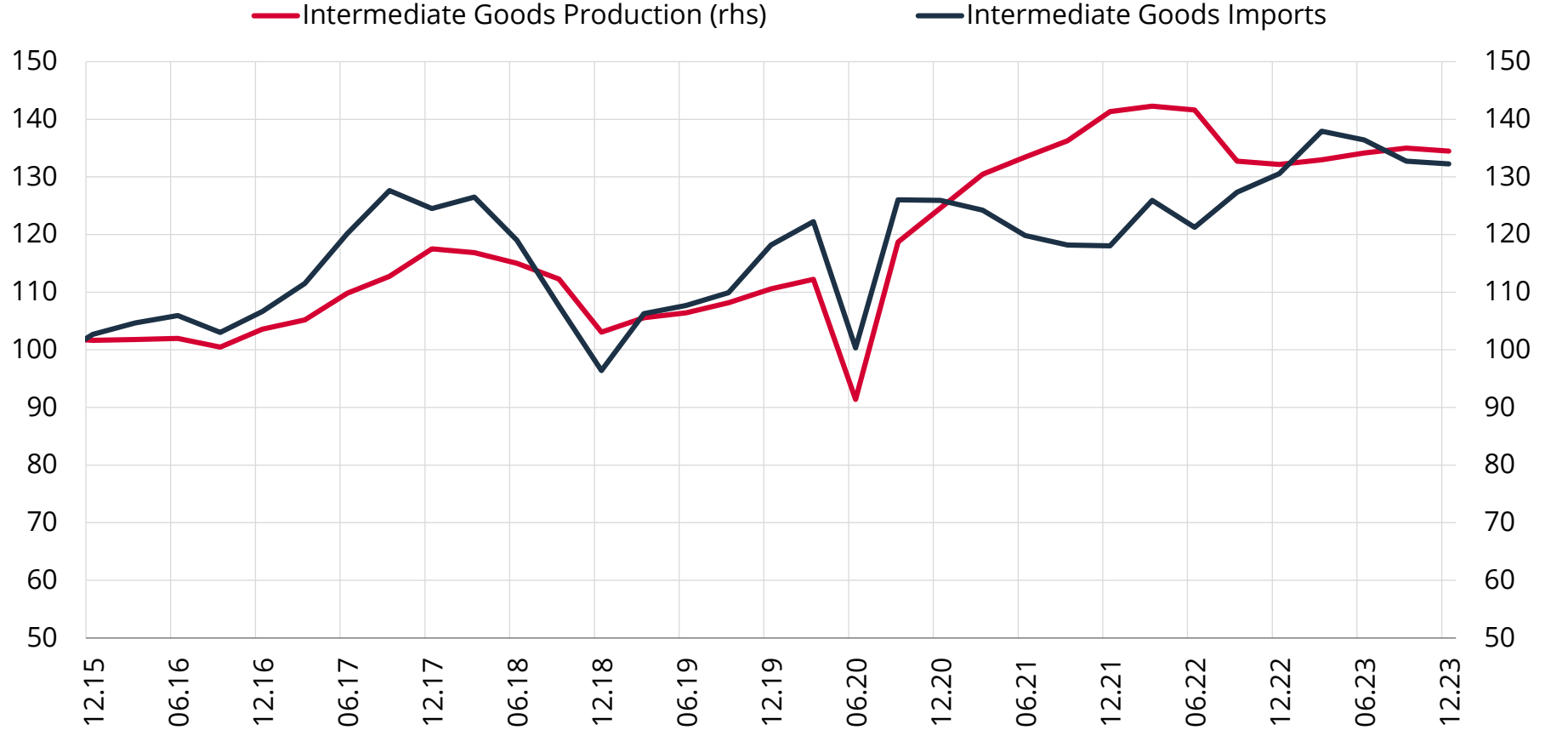


Source: TURKSTAT

Last Observation: December 2023

# Intermediate Goods Production and Imports

(Seasonally Adjusted, Quarterly Average, Production 2015=100, Imports 2015=100)

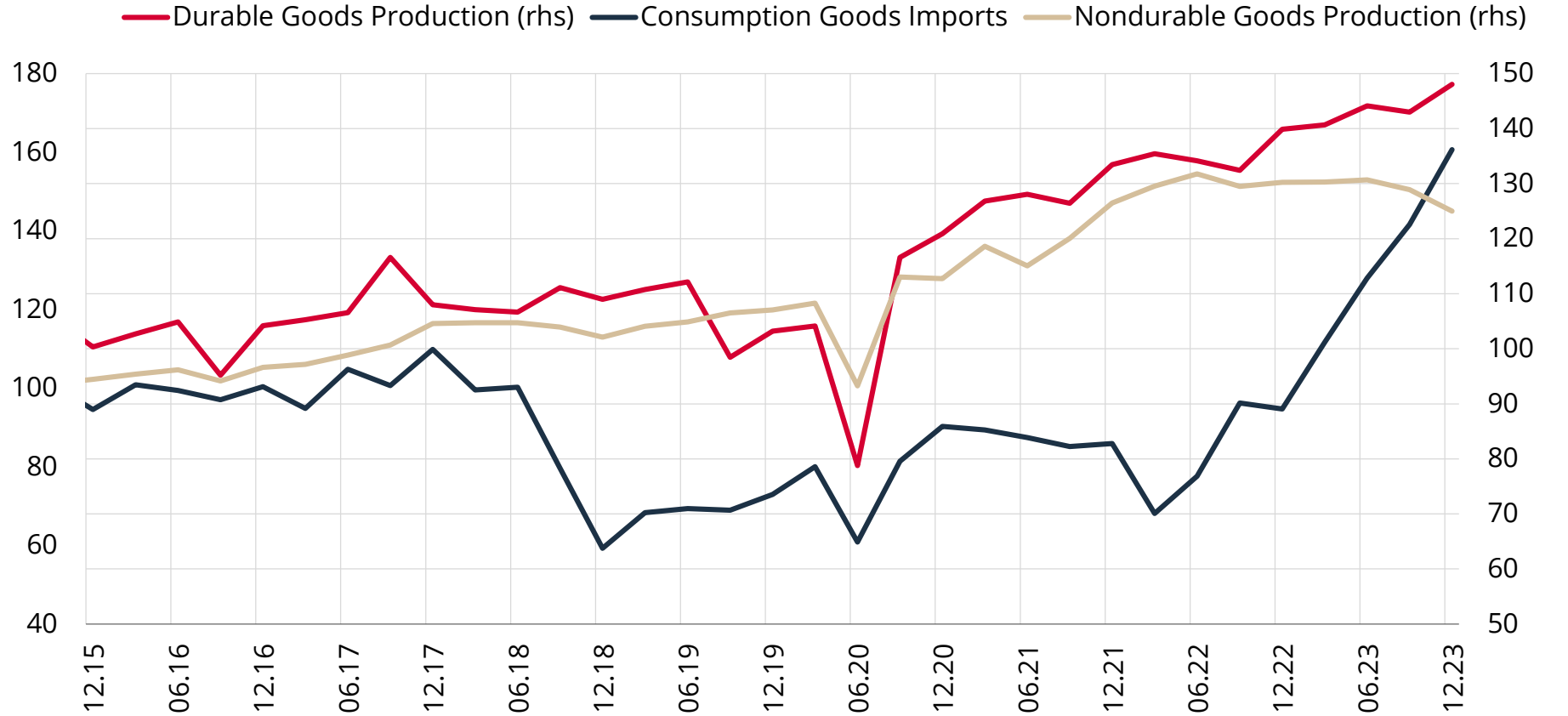


Source: TURKSTAT

Last Observation: December 2023

# Consumption Goods Production and Imports

(Seasonally Adjusted, Quarterly Average, Production 2015=100, Imports 2015=100)

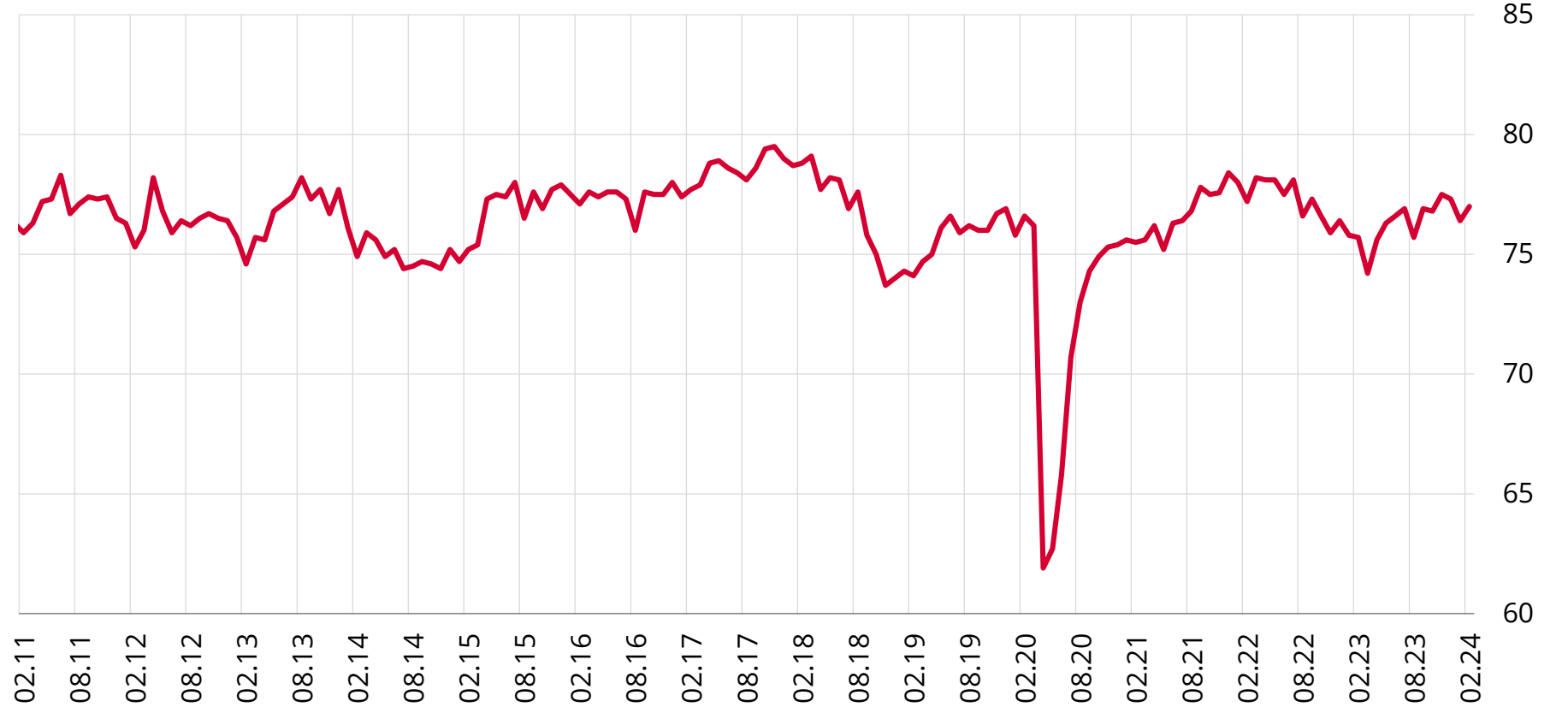


Source: TURKSTAT

Last Observation: December 2023

# Capacity Utilization Rate

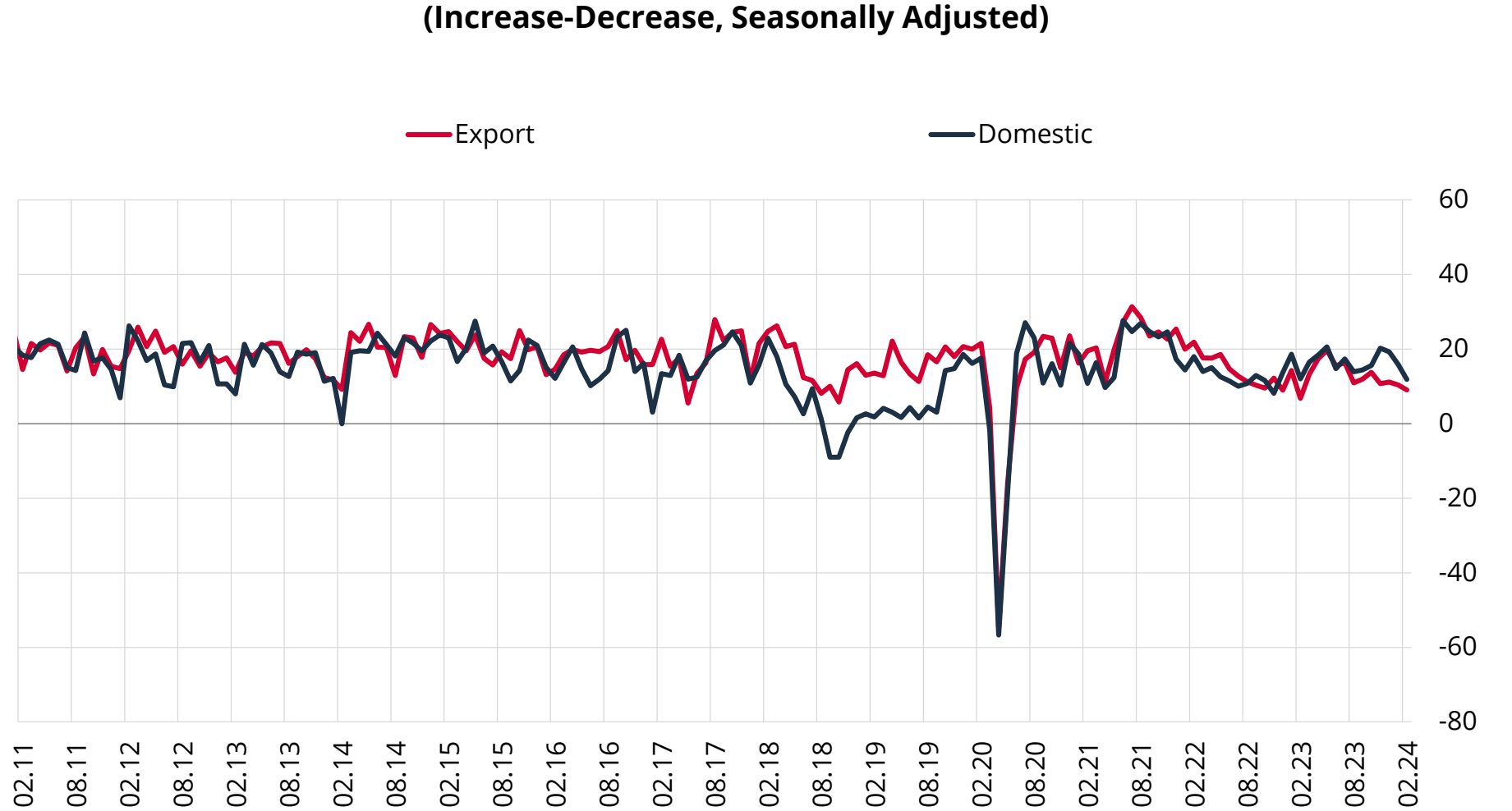
(Seasonally Adjusted, %)



Source: CBRT

Last Observation: February 2024

# Export and Domestic Orders Expectations Over the Next Three Months

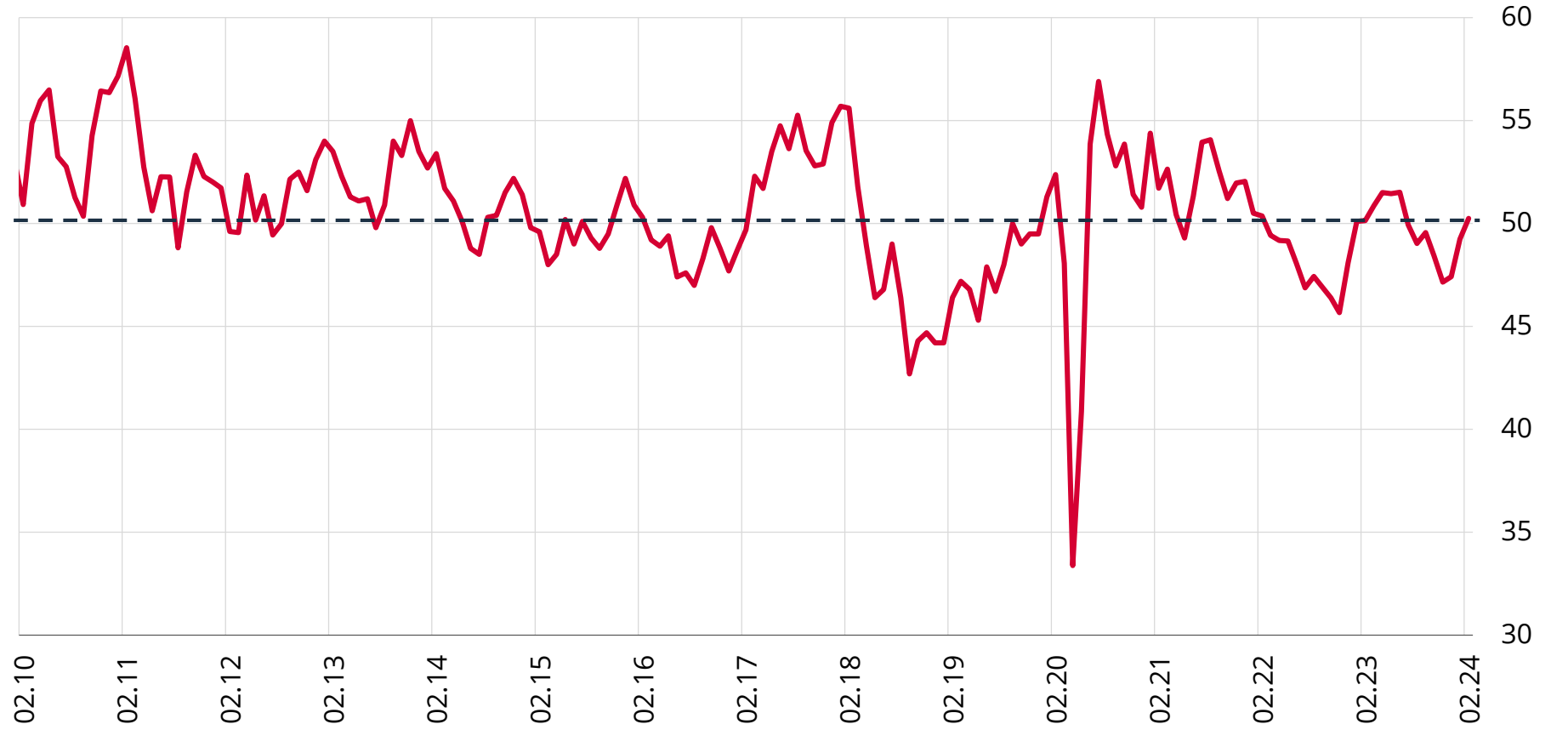


Source: CBRT

Last Observation: February 2024

# PMI

(Seasonally Adjusted)

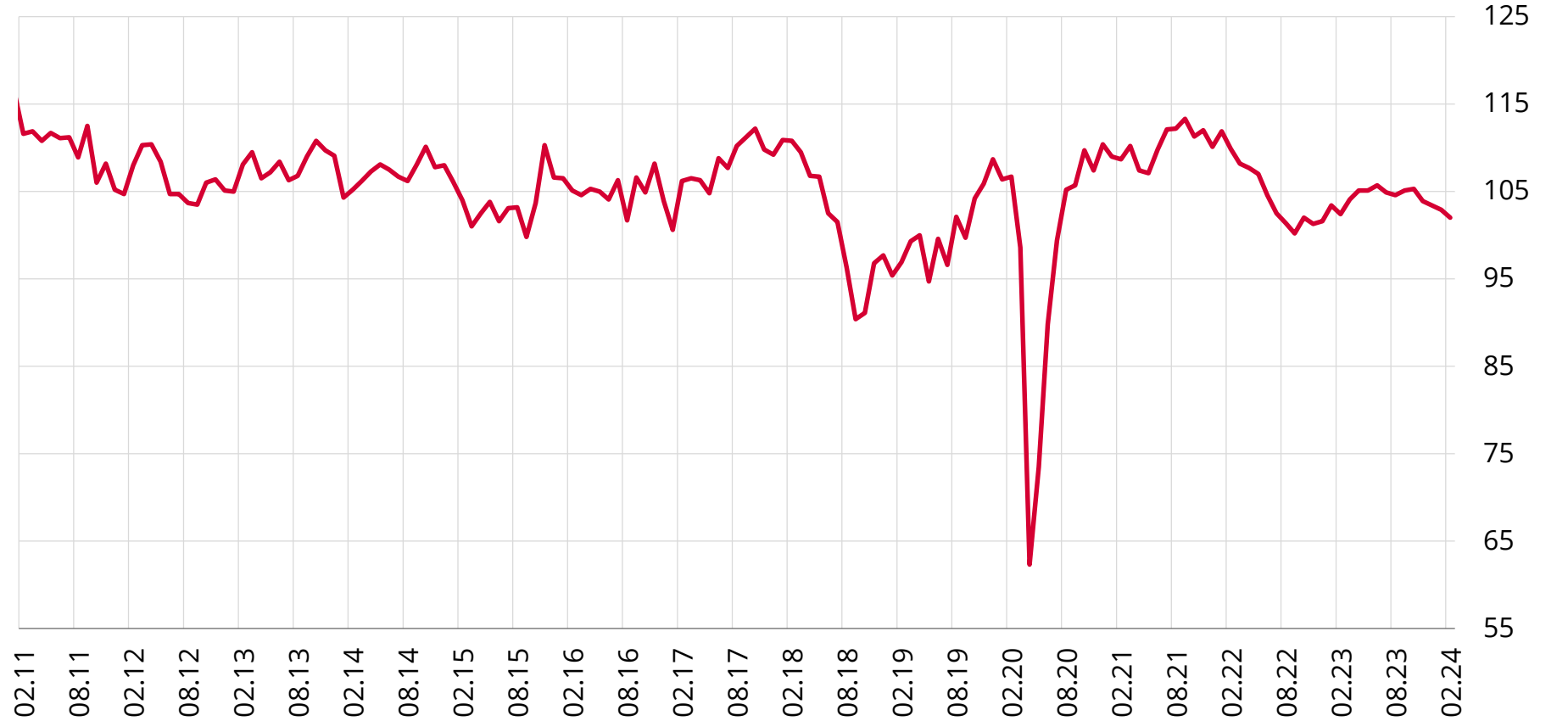


Source: S&P Global

Last Observation: February 2024

# Real Sector Confidence Index

(Seasonally Adjusted)

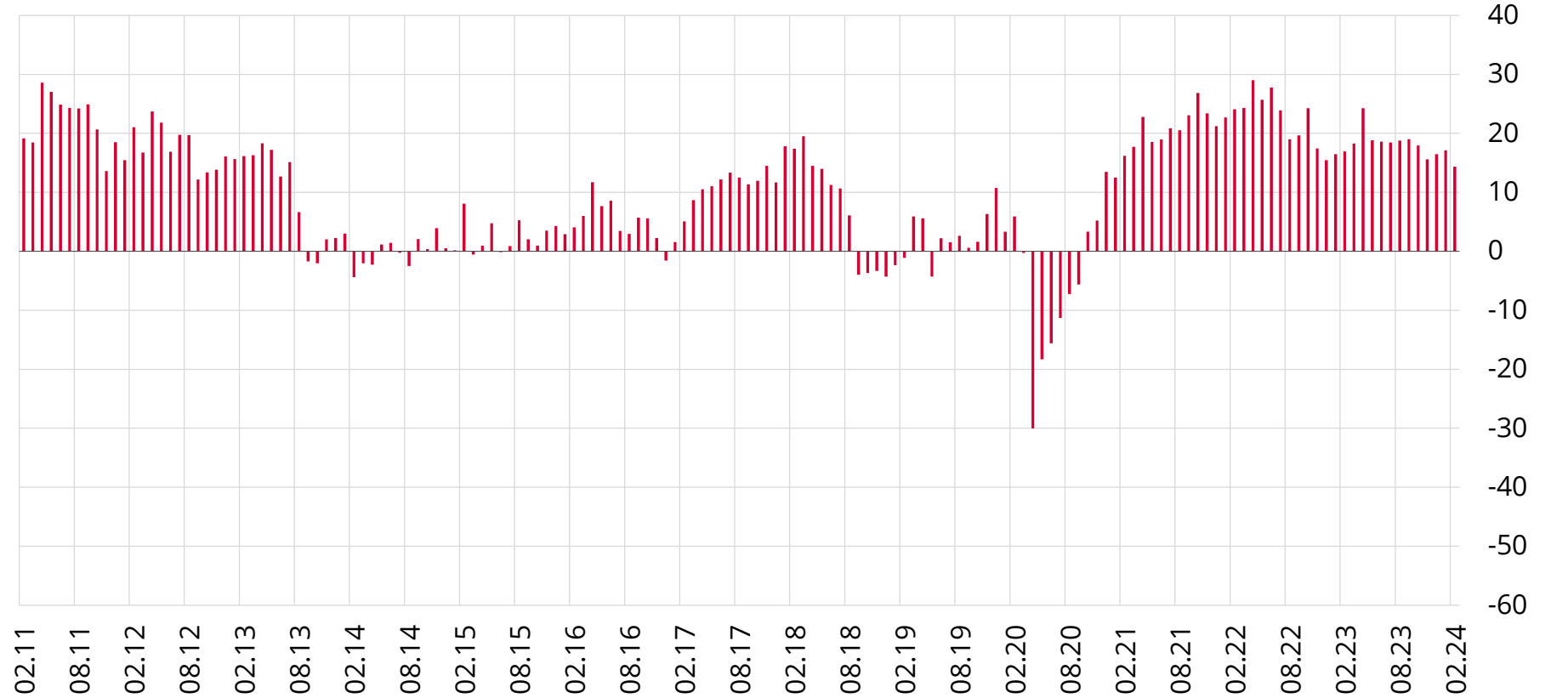


Source: CBRT

Last Observation: February 2024

# Investment Tendency\*

(Increase-Decrease, Seasonally Adjusted)

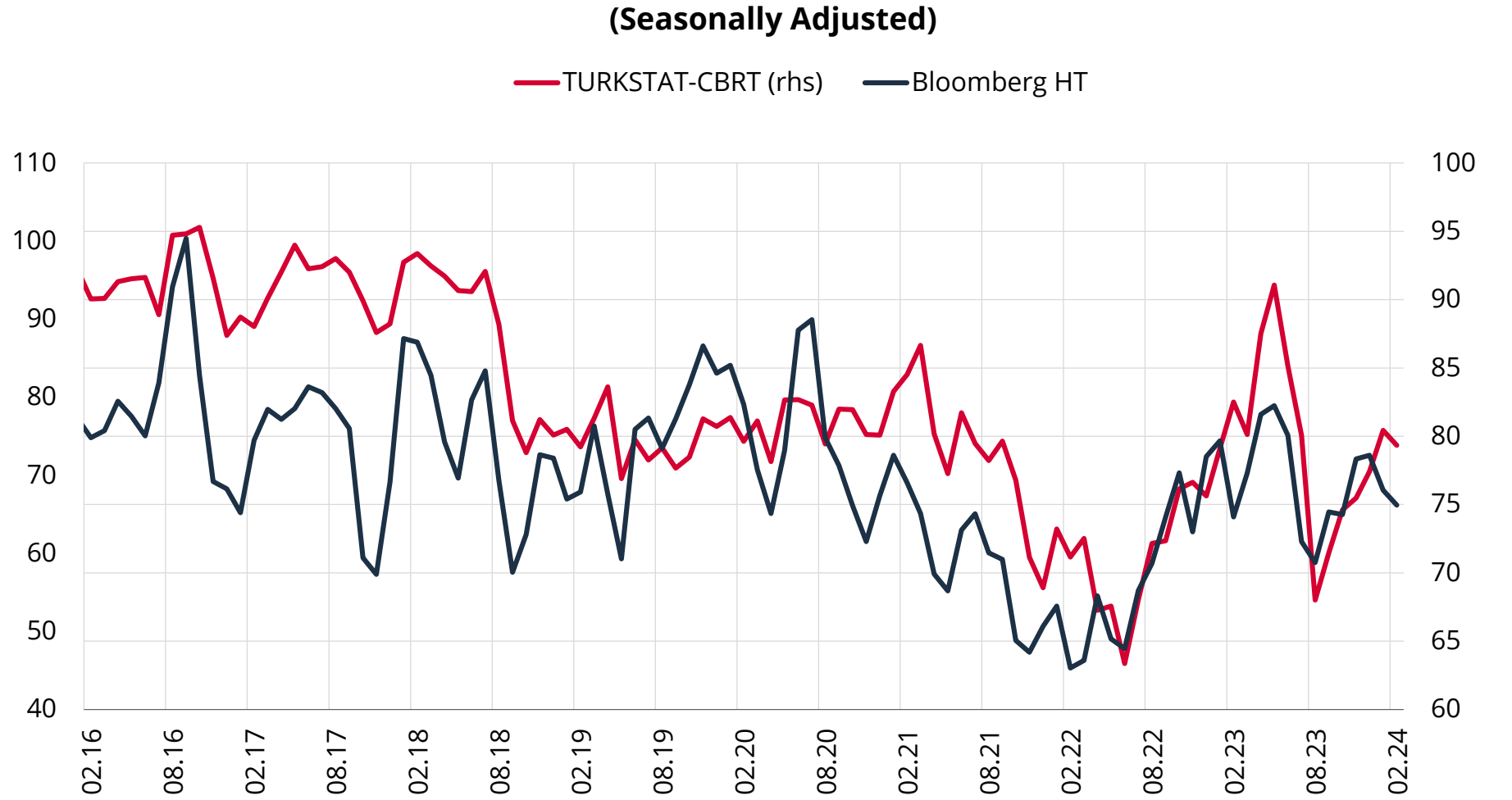


Source: CBRT

Last Observation: February 2024



# Consumer Confidence Indices



Source: Bloomberg HT, TURKSTAT

Last Observation: For TURKSTAT-CBRT February 2024  
For Bloomberg HT February 2024



TÜRKİYE CUMHURİYET  
MERKEZ BANKASI

# MAIN ECONOMIC DEVELOPMENTS

Research and Monetary Policy Department

MARCH 2024

ANKARA

