

# PKO Bank Hipoteczny Issuer of Mortgage Covered Bonds in PKO BP Group

PKO Bank Hipoteczny April, 2023

## Key investment highlights of PKO Bank Hipoteczny





The biggest mortgage Bank in Poland with residential mortgages loan portfolio in cover pool of PLN 18.2 bn (as at 28.02.2023)



Effective business model synergies with its parent company PKO BP – leader of Polish banking sector



The biggest issuer of covered bonds in Poland with PLN 10.2 bn of outstanding which is 53.7% of market share (as at 28.02.2023)



Covered Bond rating Aa1 the highest achievable by Polish debt securities



Strongly committed to ESG with eligible portfolio of green assets



First issuer of EUR denominated benchmark green covered bonds out of Poland and Central & Eastern Europe



Green covered bonds in line with ICMA and certified by Climate Bonds Initiative





- 1. Overview of the Polish economy
- 2. Polish banking sector
- 3. Polish property market and residential mortgage lending
- 4. PKO Bank Hipoteczny covered bonds issuer
- 5. Green Covered Bonds as an important addendum to the funding mix
- 6. PKO BP Group overview
- 7. Appendices



## Overview of the Polish economy

## Poland – economic growth frontrunner in the EU



#### Macroeconomic forecasts

		2020	2021	2022	2023 forecast
GDP	% y/y	-2.0	6.9	5.1	0.1
Consumption	% y/y	-3.6	6.2	3.3	-2.3
Investments	% y/y	-2.3	1.2	5.0	2.5
Fiscal balance*	% GDP	-6.9	-1.8	-3.7	-5.4
CPI Inflation	%	3.4	5.1	14.4	12.6
LFS unempl. rate	%	3.2	3.4	2.9	3.3
NBP reference rate	% еор	0.10	1.75	6.75	6.50
EUR/PLN	PLN eop	4.61	4.60	4.69	4.59

Source: Statistics Poland, Ministry of Finance, National Bank of Poland, PKO Bank Polski forecasts \* Forecast for 2022



Population: 37.7 m (5<sup>th</sup> largest in the EU) covering area of 312 696 km<sup>2</sup>



GDP\*\* in 2021: EUR 574.4 bn

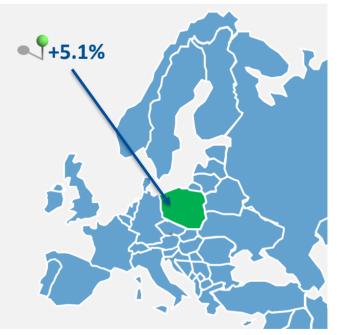


GDP per capita\*\*\* in 2021: USD 38.0 thous (in PPP)

Poland's credit ratings



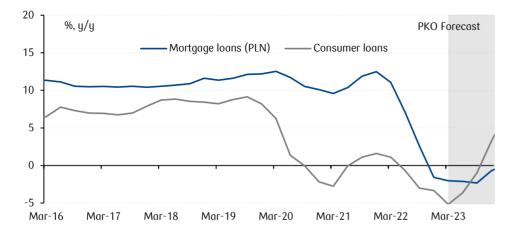
#### GDP growth in 2022



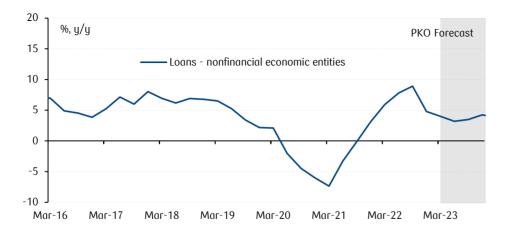
## Development of loan and deposit market (FX adjusted)



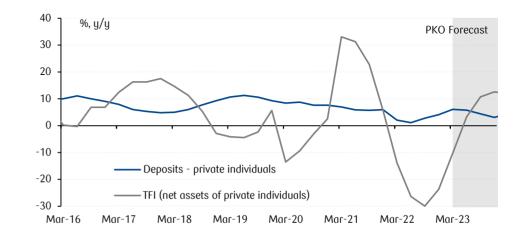
#### Mortgage and consumer loans



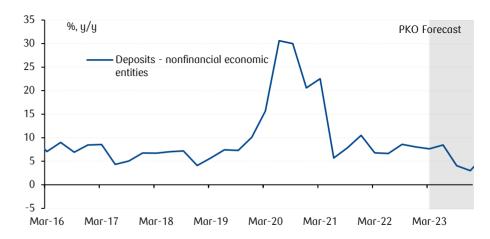
#### Loans to non-financial economic entities



#### Households deposits and net assets (TFI)



#### Deposits of non-financial economic entities



## 2022 better than feared, brighter outlook for 2023

GDP and its main components

20

15

10

5

-5

-10

-15

-20



РКО

Mor-23

Forecast

Unemployment rate in Poland

major economies 16 6 %, u/u %, y/y 14 12 Polond Germanu euro zone USA - China GDF РКО Consumption Registered unemployment LES unemploument Forecast Investments -1 Mar-22 Mor-23 Mor-08 Mor-20 Mor-11 Mor-14 Mor-17 Mor-18 Mor-19 Mor-20 Mor-21 Mor-22 Mor-23 Source: Bloomberg, PKO Bank Polski, \* Bloomberg consensus Source: Statistics Poland, PKO Bank Polski Source: Statistics Poland, PKO Bank Polski

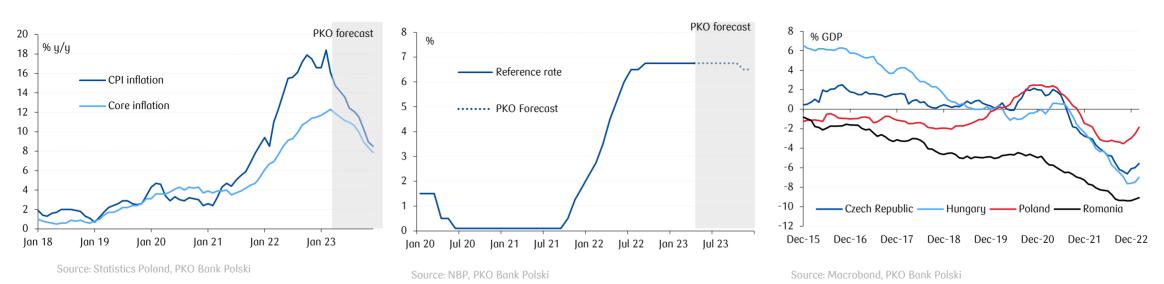
Forecasts of GDP growth in 2023\* for Poland and

- GDP growth in 2022 was over 5%, but there has been a clear slowdown in the course of the year, to a mere 2.3% y/y in 4q22. The main drag on the overall economic growth was the weakening of a consumption demand amid a decline in households' real incomes and negative impact of interest rate hikes. Investment activity has been relatively stronger. Exports have been surprisingly resilient, despite a notable deterioration in global trade flows.
- The labour market has not been harmed much by the economic downturn. The unemployment remains close to historical lows amid nearly record high number of vacancies, declining working-age population, high number of temporary migrant workers and labour hoarding.
- 2h23 should see a gradual economic recovery driven by an improvement in external environment and positive impact of disinflation on real incomes and consumption. Investment activity will be boosted by the public sector.

## Inflation and interest rates have peaked

Main inflation measures in Poland





NBP reference rate

#### Current account balance

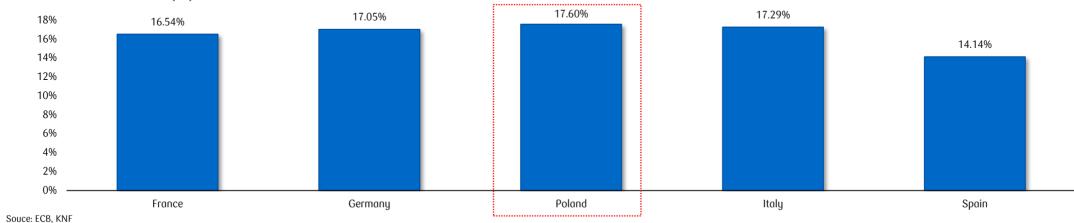
- Strong inflation increase seen last year has weakened in late 2022. It is expected that 2023 will bring disinflation as energy shock will be fading away, annual growth rate of food prices will be declining and underlying inflationary pressure will be weakening amid drop in consumption.
- The MPC has paused monetary policy tightening, awaiting lagged effects of the largest interest rate hikes in over 20 years. A start of
  rate cuts is possible before the end of 2023, if CPI inflation goes down to a single-digit level and the PLN is not negatively affected by
  policy actions of major central banks.
- Poland's public finances and balance of payments look relatively well against the background of regional peers. The Polish economy
  is going through the negative terms-of-trade shock in a relatively good shape and current account balance has started to improve.
   FDIs inflow remains large and Poland may be an important beneficiary of the intensifying nearshoring/friendshoring.



# Polish banking sector

## Polish banking sector





#### Tier 1 as of 31.12.2022 (%)

#### KPIs of the Polish banking sector as of 31.12.2022

KPIs	Banking sector
TCR	18.21%*
ROE	7.0%
ROA	0.47%
C/I	53.48%
Total NPL ratio	4.8%
NPLs in % of mortgage loans	1.9%

#### Key market parameters

%	31.12.2019	31.12.2020	31.12.2021	30.12.2022	31.03.2022
WIBOR 3M	1.72%	0.21%	2.54%	7.02%	6.89%
EUR/PLN	4.26	4.61	4.60	4.69	4.68

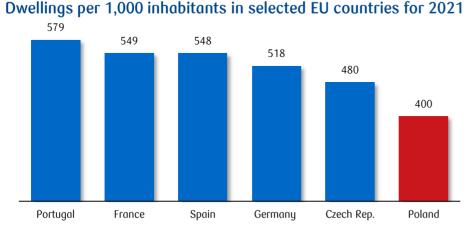
Source: GPW Benchmark, NBP



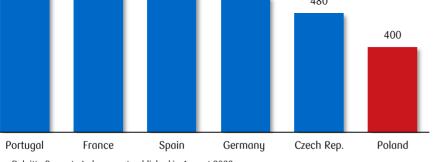
# Polish property market and residential mortgage lending

## Polish residential market - considerable development potential

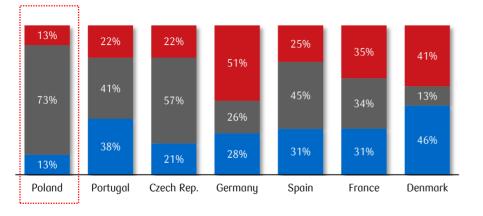




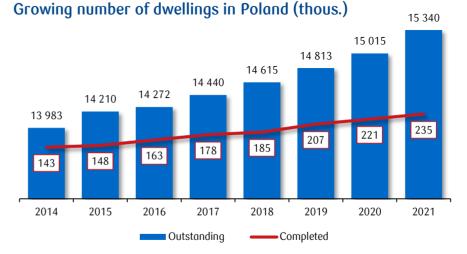
Source: Deloitte Property Index report published in August 2022



Dwelling ownership status for 2021 (%)



- Relatively low number of dwellings per thousand inhabitants in comparison to other EU countries.
- Constantly growing number of completed and outstanding dwellings. In 2022 the number of dwellings completed was 2% higher than in 2021, but the number of construction projects started decreased bu 28% u/u.
- Polish ownership rates are among the highest in the EU and relatively low in terms of rental dwellings.
- The housing shortage in Poland is estimated at about 1 million apartments.
- The number of dwellings in Poland has been growing on average by about 210 000 p.a. over the last five years.



Mortgage Source: Statista.com

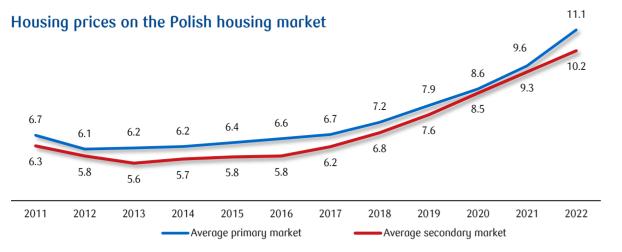
Ownership w/o mortgage

Rental

Source: Statistics Poland (GUS)

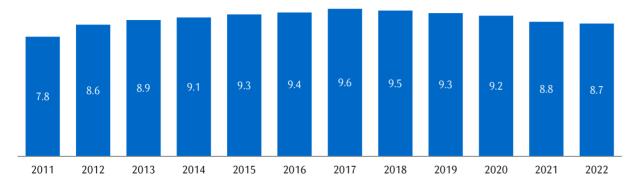
## Rising housing prices on the Polish housing market persist





Source: PKO BH calculation based on NBP and Statistics Poland (GUS) data





#### Primaru market

- Average house prices on secondary and primary markets have increased by about 40% on average since 2011.
- Average price growth between 2017 and 2022 was ca. 10% p.a.
- Affordability has been slightly decreasing during last 4 years due to significant increase of house prices (a bit higher than average increase of salary).
- Houses purchasing power is currently at the same level as 10 years ago.

#### Secondary market

- Average house prices on secondary market are 5-8% lower compared to the primary market.
- Average price growth between 2017 and 2022 was ca. 11% p.a.

#### **Real estate prices**

- Despite the slowdown on real estate market in 2022 (mainly due to an increase in interest rates) the dynamics of the growth in residential properties prices did not decrease.
- We estimate that in 2023, the price growth will drop to max 5%.

#### **Current situation**

- The increase of interest rates and changes in the rules in calculating creditworthiness recommended to banks by the Polish Financial Supervision Authority (KNF) resulted in a decrease in creditworthiness by more than a half in April 2022, compared to average of 2021.
- In the second half of 2022, the decreased demand for dwellings was accompanied by a lower supply of new flats, what restored a relative supply-demand balance on the housing market.
- Number of loans granted in 2022 dropped from 276.5 thou. in 2021 to 133.8 thou. in 2022, which means a decrease from PLN 88.7 to 45.8 bn in terms of loans' value. The significant reduction of the demand for flats was compensated to a small extent by investment purchases.
- In August 2022, the decline in monthly sales of mortgage loans stopped. Sales stabilized at a relatively low level (ca. 6.5 thou. loans and over 2 bn PLN).
- Sales on the primary and secondary markets, after reaching a minimum in Q3 2022, began to grow gradually in the following two quarters (Q4 2022 and Q3 2023). In the next quarters of 2023, we expect the upward trend to continue, the dynamics of which will depend on the pace of inflation decline and the prospects for a decrease in interest rates.

#### Number and value of loand granted

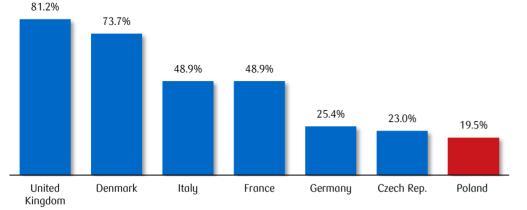


Source: PKO BH calculated on BIK data



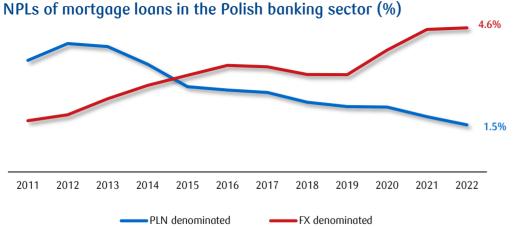
## Situation on the domestic mortgage market



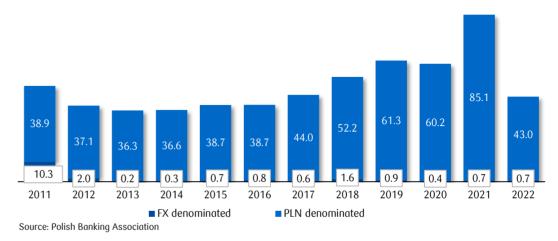


Ratio of total outstanding residential mortgage loans to GDP ratio for 2021 (%)

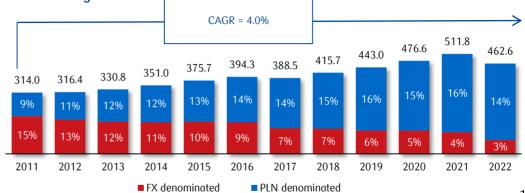
Source: EMF Ouarterlu review O4 2021. https://www.statista.com/



Value of newly signed residential mortgage loans in Poland (PLN bn)



Outstanding value of residential mortgage loans in Poland (PLN bn) as % of total banking assets



Source: PKO BH calculation based on NBP and KNF data



# PKO Bank Hipoteczny – covered bonds issuer

## Strategy for 2023-2025 "Efficient in action, committed to development"



Our advantages enable us to pursue an ambitious strategic mission caring for sustainable development. We provide:



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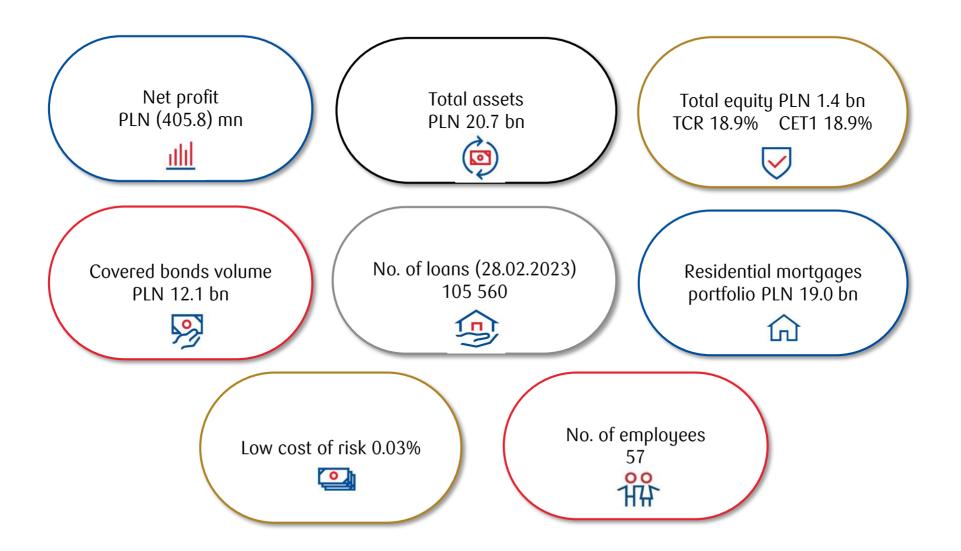
## Strategic goals 2023-2025

Bank Hipoteczny

We want to achieve ambitious strategic goals having in mind not only current profitability, but also investing in development that goes beyond the horizon of the strategy. Strategic goals of PKO Bank Hipoteczny:







## Results in 2022 affected by mortgage moratoria

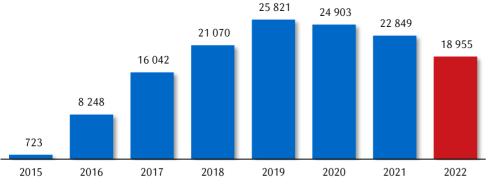




Source: PKO Bank Hipoteczny financial statements

- Mortgage moratoria ("credit holidays") were implemented in 2022 to all borrowers who finance their own housing needs. Four installments in 2H2022 • were subject to moratoria and one loan installment per guarter in 2023. Moratoria are voluntary for the borrowers. This affected profitability of the Bank in 2022 as well as its capital ratios.
- Suspensions of repayment of principal and interest installments required the recalculation of future flows. A behavioral model was developed, based on . which it was estimated in July 2022, that 63% of the Bank's customers would take advantage of the repayment suspension.
- Bank adjusted the gross amount of mortgage loans by the amount of 667.8 PLN by reducing interest income, which meant that it closed the year with a • loss. This amount covered the result of the credit holidays used in 2022 and 2023, but may change if more customers decide to benefit from mortagae moratoria by the end of 2023.
- Results were also impacted by regulatory costs of PLN 37.3 mn and banking tax of PLN 69.6 mn. .
- Solid capital position attest to the safety and stability of the Bank's operations. •

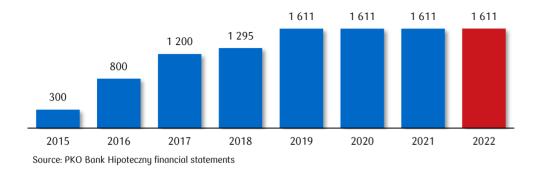
## Volumes of covered bonds and PLN-denominated residential mortgage loan portfolio



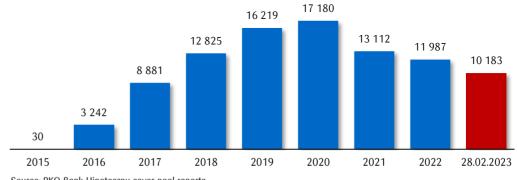
Residential mortgage loan portfolio – outstanding (PLN mn)

Source: PKO Bank Hipoteczny financial statements

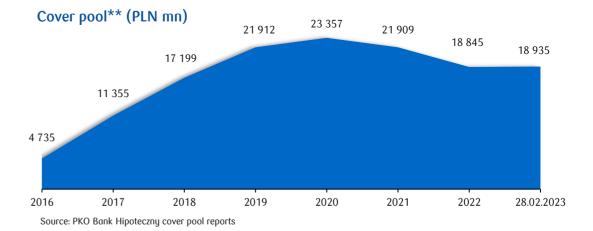
#### Share capital (PLN mn)



Covered bonds outstanding\* (PLN mn)



Source: PKO Bank Hipoteczny cover pool reports



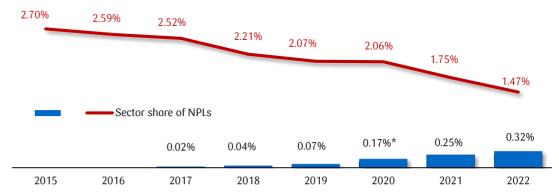
\*EUR denominated issues converted by EUR/PLN NBP fixing rate as of the end of particular periods \*\*Without hedging instruments included into the cover pool; liquidity buffer included but not counting towards coverage and OC Bank Hipoteczny

## Excellent quality of the housing loan portfolio at PKO BH



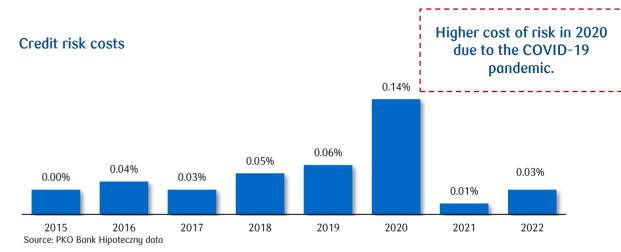
- Careful selection of the loans purchased in the pooling model
- Reminder actions taken by the Bank at an early stage of the arrears of the loans
- Active management of the impaired loan portfolio (NPL) aimed at returning to timely service
- NPL ratio is significantly below the sector level

#### Share of NPLs (%) vs. sector

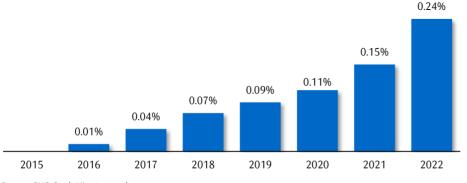


Source: PKO Bank Hipoteczny data / NBP Banking sector financial data

\*Increase of NPLs due to implementation of EBA Guidelines on the application of the definition of default under Article 178 of Regulation (EU) No 575/2013. This is a change in the definition, which does not affect the quality of the portfolio and the cost of risk.



#### Share of DPD30 (%)



Source: PKO Bank Hipoteczny data

## Safe lending criteria



Polish banking regulations	<ul> <li>LTV (market value) ≤ 80%*</li> </ul>
Polish regulations on mortgage banks	<ul> <li>LTMLV (mortgage lending value) ≤ 100%</li> <li>First-ranking lien in mortgage register</li> <li>Legal title: ownership or perpetuity</li> </ul>
PKO BH criteria (current offer)	<ul> <li>PLN loans only</li> <li>Residential mortgages (principal dwelling only)</li> <li>Contractual maturity: up to 35 years</li> <li>Interest rate: floating and fixed for 5 years (10.3% of the credit portfolio as of 31 Dec 2022)</li> </ul>
PKO BH criteria	<ul> <li>New construction (selectively) and secondary market</li> <li>Collateral: flats or houses</li> <li>Not in arrears (in case of pooling)</li> </ul>
Subject to	o approval by the Cover Pool Monitor, the receivables are registered in the cover pool

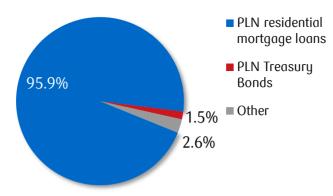
## High-quality cover pool of purely residential mortgages in PLN



#### Cover pool value as at 28.02.2023



#### Cover pool structure (%) as at 28.02.2023



#### Mortgage characteristics (as at 28.02.2023):

- Mortgages: PLN and residential only
- **Overcollateralisation above regulatory limits: 79%** (vs. 5% required)
- Number of loans: 105 560
- Average loan value PLN 172.0k / EUR 36.5k
- Average indexed LtV 36.8%
- 10 Largest Exposures: 0.1% of total exposures

#### Features of standard residential mortgage loans in the Cover Pool:

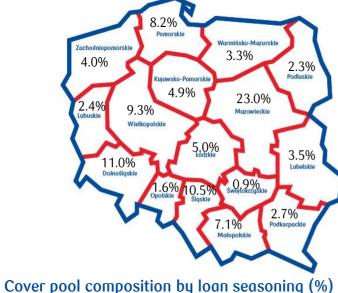
- Variable interest rate based on WIBOR rate or fixed interest rate for 5 years
- Amortizing monthly (no interest-only)
- For own housing purposes (no buy-to-let)

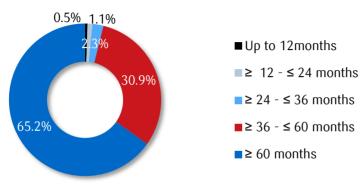
Source: PKO Bank Hipoteczny data including: https://www.pkobh.pl/en/reports/cover-pool-reports/

## ...with good diversification and low LTV ratio as at 28.02.2023

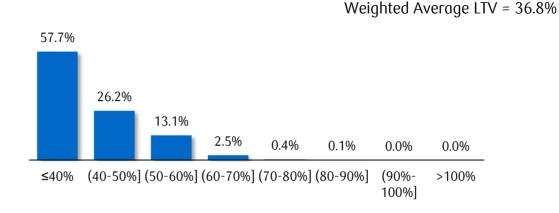




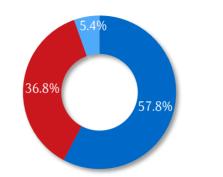




Cover pool composition by LTV (%)



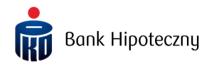
Cover pool composition by loan value (%)



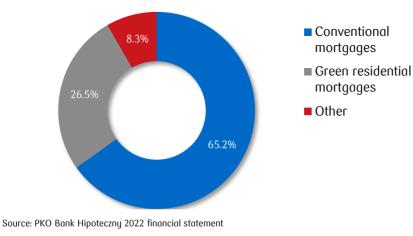
Average loan value PLN 172.0k (EUR 36.5k)

- ≤ PLN 250 k [PLN 250k -500 k] [PLN 500 k-1 mn]
- > PLN 1 mn

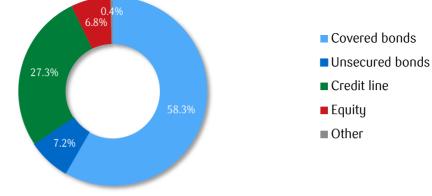
## Asset and liability structure



#### PKO Bank Hipoteczny assets' structure as at 31.12.2022 in %



## PKO Bank Hipoteczny funding structure as at 31.12.2022 in %



Source: PKO Bank Hipoteczny 2022 financial statement



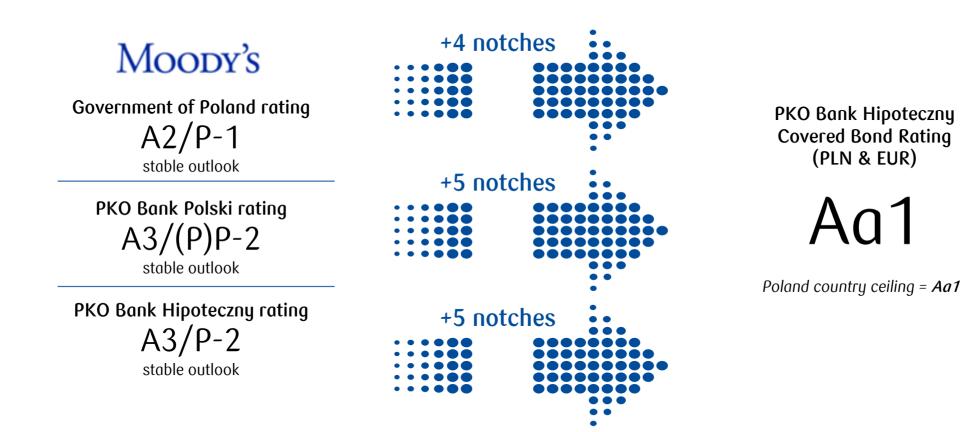
Source: PKO Bank Hipoteczny Cover pool report as of 28.02.2022

Source: PKO Bank Hipoteczny Cover pool report

\*EUR/PLN NBP fixing exchange rate as at 28.02.2023, 1 EUR= 4.7170

## Covered bond rating at country ceiling level





PKO Bank Hipoteczny covered bond rating is based on:

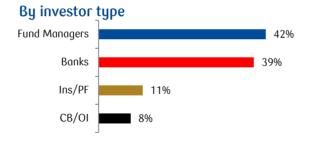
- High cover pool quality
- OC at the minimum level of 5% (Moody's OC consistent with Aa1 rating is 0.5%)
- Legally defined and predictable bankruptcy procedure

## No. 1 Polish EUR bond issuer in the international markets

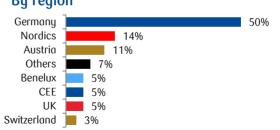


	#3 Benchmark issue	#4 Benchmark issue	#1 Private issue	#6 Benchmark issue	#9 Benchmark issue
Issue size	500 000 000 EUR	500 000 000 EUR	25 000 000 EUR	500 000 000 EUR	500 000 000 PLN
Moody's rating	Aa1	Aa1	Aa1	Aa1	Aa1
Re-offer spread	MS + 28 bp	MS + 23 bp	MS + 20 bp	MS + 36 bp	-
Annual coupon	0.750%	0.750%	0.820%	2.125%	WIBOR 3M + 0.85%
Price/Yield as of issue date as of issue date	99.906/0.764%	99.892/0.769%	100/0.820%	99.98/2.132%	100/7.76%
Issue date	27.09.2017	22.03.2018	02.02.2017	04.07.2022	02.02.2023
Maturity date	27.08.2024	24.01.2024	02.02.2024	25.06.2025	09.02.2026
Stock Exchange listing venue	Luxemburg and Warsaw	Luxemburg and Warsaw	Luxemburg	Luxemburg and Warsaw	Luxemburg and Warsaw
ISIN	XS1690669574	XS1795407979	XS1559882821	XS2495085784	XS2583335943

Distribution of all outstanding EURO-denominated benchmark covered bond issues of PKO BH





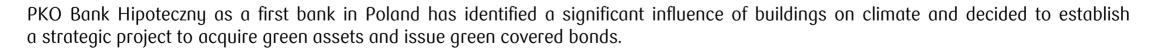


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# Green Covered Bonds as an important addendum to the funding mix

## Green covered bonds as a financing tool for PKO Bank Hipoteczny mortgages



Documentation/ Framework	<ul> <li>PKO Bank Hipoteczny green covered bonds are in line with ICMA Green Bond Principles (GBP).</li> <li>Second Party Opinion of PKO Bank Hipoteczny Green Covered Bond Framework has been issued by Sustainalytics.</li> <li>PKO Bank Hipoteczny green covered bonds are certified by Climate Bonds Initiative.</li> </ul>	Climate Bond Certified
Methodology	<ul> <li>In 2022 PKO Bank Hipoteczny updated its Framework, which includes criteria and methodology to identify energy efficient residential buildings in the Bank's loan portfolio. It was developed by green buildings consultant Drees &amp; Sommer.</li> <li>PKO Bank Hipoteczny methodology is approved by Climate Bonds Initiative under their Low Carbon Criteria as proxy for energy-efficient residential properties in Poland.</li> </ul>	DREES & SOMMER
Special offer for green mortgages	• Dedicated offer for financing of energy efficient mortgages with valid EPCs in PKO BP.	
Energy Efficient Mortgage Label	<ul> <li>PKO Bank Hipoteczny joined the Energy Efficient Mortgage Label in February 2021.</li> <li>We report in HDT format since 1Q'22.</li> </ul>	Energy Efficient Mortgage Label

Bank Hipoteczny

## PKO Bank Hipoteczny Green Covered Bonds are in line with ICMA GBP



Use of Proceeds	<ul> <li>Financing and refinancing of eligible assets on PKO Bank Hipoteczny's balance sheet.</li> <li>Eligible assets include loans for residential buildings as defined in the eligibility criteria: <ul> <li>new or existing residential buildings representing top 15% low carbon buildings in Poland;</li> <li>existing residential buildings in Poland, which have undergone a property upgrade (major renovations, refurbishment, thermo-modernization or efficiency upgrade) achieving a 30% Energy efficiency improvement</li> </ul> </li> </ul>
Project Evaluation and Selection	<ul> <li>PKO Bank Hipoteczny has established a Green Covered Bond Committee (GCBC) which is comprised of one representative from each of the following areas of the bank: Treasury, Residential Mortgage Loans, Risk, Compliance, Controlling and The Cover Pool Register.</li> <li>GCBC reports directly to the Management Board of the Bank.</li> <li>GCBC's role is to oversee the process for evaluation and selection of eligible loans according to the adopted methodology.</li> </ul>

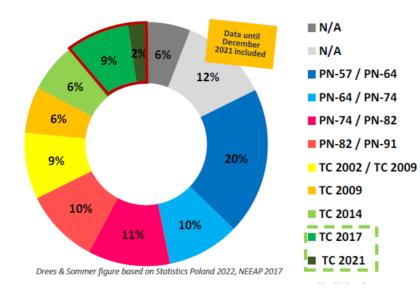
Management of Proceeds	• The proceeds from green covered bonds can be allocated either to refinance exisiting portfolio or to finance new loans which fullfill eligibility criteria.
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Reporting
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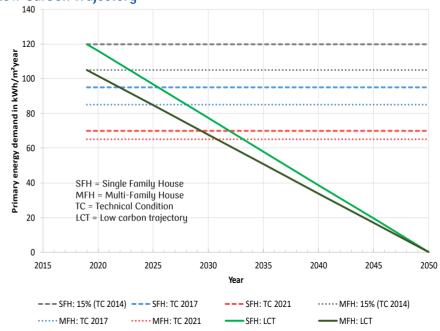
## PKO Bank Hipoteczny Green Covered Bonds Methodology



- Based on the statistical analysis of buildings and mandatory building energy performance codes minimum criteria for a green bond were determined
- Buildings are deemed to be within the Top 15% of its local market if: Technical Condition is TC 2017 or newer
- Our eligibility criteria are not static and are in line with the trajectory provided by CBI (aimed at climate neutrality by 2050).
- New buildings complying with Technical Note 2017 or later by year of construction are automatically eligible for qualification for bonds where the mid-point of the bond term is no later than 2025.



#### A Low Carbon Trajectory



Source: https://www.climatebonds.net/files/files/Residential%20Proxy%20Poland%281%29.pdf

- A low carbon trajectory (LCT) connects the basis requirements of TC 2014 (SFH: PED≤ 120 kWh/m2year | MFH: PED≤ 105 kWh/m<sup>2</sup>year) as the start of the year 2019 towards **the Zero-Emission-Goal** in 2050 with zero non-renewable primary energy.
- The low carbon trajectories for single- and multifamily houses serve as the 15th percentile baseline for the local Polish residential market.



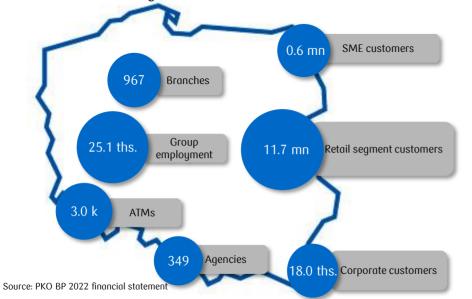
## PKO BP Group overview

## PKO BP Group - a leader in the Polish banking sector

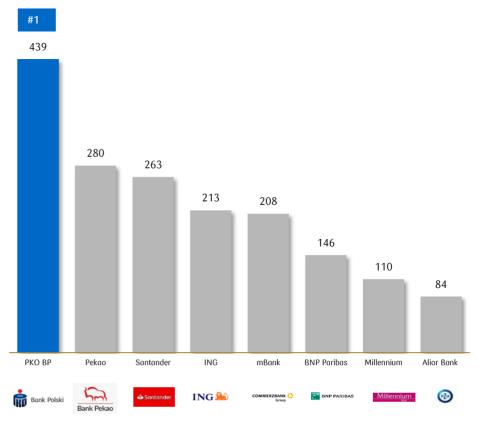


#### General description of PKO BP Group\*:

- Leader in the Polish banking sector in terms of total assets, net income, total equity, loan and deposit portfolios, number of customers and size of distribution network, mobile banking.
- Long-term debt (senior unsecured) rating by Moody's at A3 with stable outlook.
- PKO BP Group is the biggest bank listed at WSE with capitalisation of PLN 37.9 bn as of 30.12.2022.
- PKO Bank Polski included in FTSE Russel index covering leading European companies.
- Bank paid out PLN 2.3 bn dividend for 2021.
- The State Treasury of Poland owns 29.43% of PKO BP shares.



#### Market position by total assets as of 30.09.2022 (PLN bn)

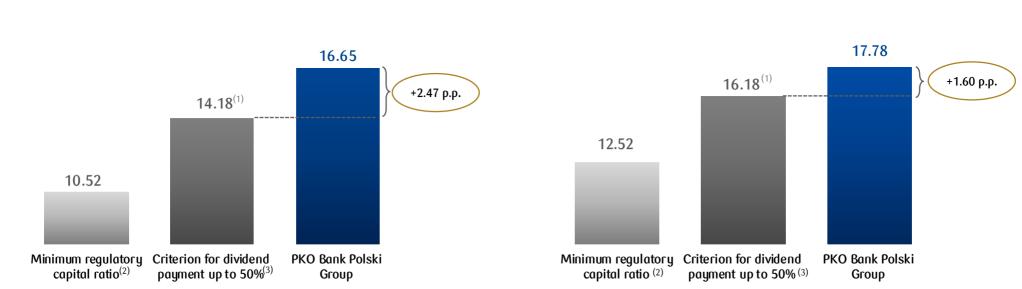


Source: Financial statements of the banks

\*PKO BP Group includes among others PKO Bank Polski S.A., PKO Leasing S.A. Group, PKO Towarzystwo Funduszy Inwestycyjnych S.A., PKO Finance AB and PKO Bank Hipoteczny S.A.

## Solid capital position of PKO BP Group at the end of 2022





Total capital ratio (TCR) [%]

- (1) PFSA's buffer for Group's sensitivity to an adverse macroeconomic scenario recommended in Pillar II is 0.66% (Bank: 0.72%)
- (2) Tier 1: CRR 6% + conservation buffer 2.5% + OSII buffer 2% + countercyclical buffer 0.02% TCR: CRR 8% + conservation buffer 2.5% + OSII buffer 2% + countercyclical buffer 0.02%

CET1 = Tier 1 capital ratio [%]

(3) - Good credit quality of the portfolio of receivables from the non-financial sector, both in the Group and the Bank level (NPL share <5%) Dividend payment minimums after adjusting the dividend payout ratio by the following criteria:

K1 - share of the foreign currency mortgages for households in total receivables of PKO from the non-financial sector (4Q'22: Bank: 6.1%; Group: 5.0%); adjustment by – 20 p.p., when 5%<K1<10%.

K2 - share of the foreign currency mortgages granted in 2007/08 in PKO's total portfolio of foreign currency mortgages (4Q'22: Bank: 33.8%; Group 32.9%); adjustment by -30 p.p., when 20%<K2<50%.

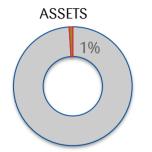
# Kredobank as a Ukrainian part of business at PKO BP Group

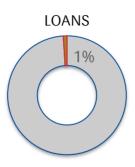


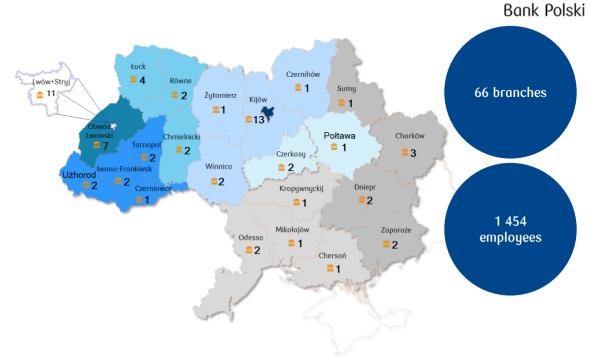
KREDOBANK S.A. is an universal bank servicing both retail and SME clients, operating mainly in western part of Ukraine and Kiev region

- Continuation of activities in regions not affected by active hostilities. 13 branches were located in the regions most affected by the war
- ~16% of the company's loan portfolio is located directly in or close to the war zones, of which less than 3% is located in areas under temporary occupation or active military action
- The company's management board estimates potential losses at a level which has no impact on KREDOBANK S.A.'s ability to continue its operations
- In 2022, KREDOBANK S.A. recognized credit risk allowances of about UAH 1.7 billion (i.e., PLN 213.9 mln)

#### KREDOBANK'S SHARE OF THE GROUP'S RESULTS December 31, 2022:







KREDOBANK S.A. (mln PLN)	Dec 31, 2022	Dec 31, 2021	Δ
Gross loans	1 881	2 196	-14%
Gross deposits	4 139	3 068	35%
Total assets	4 862	4 151	17%
Equity	496	486	2%
	2022	2021	Δ
Net income	17	101	-83%

Consolidated data according to IFRS – the principles in force in the Bank's Group . Average NBP exchange rate for the day 31/12/.2022

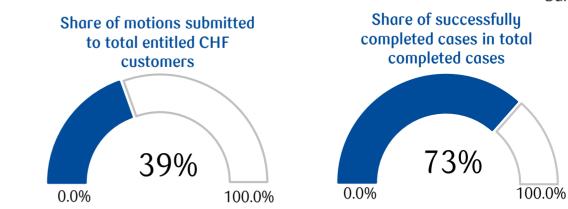
# PKO BP CHF mortgage settlement program



Bank Polski

#### As of 31.12.2022:

- More than 37 ths motions submitted for mediation Almost 21 ths mediations concluded successfullu
- More than 20 ths settlements concluded
- Process mostly performed in remote channels (78%) •
- Avg. 49 days since the submission of the motion to settlement sianina
- In June, the scope of products for which settlements were available was extended to include MIX mortgage loans granted in CHF for housing needs (purchase of real estate or repayment of other liabilities)



#### Number of cases regarding settlements of CHF borrowers

#### No. of CHF lawsuits against Bank No. of submitted motions No. of mediations concluded successfully 24.8 26.6 27.6 29.7 19.2<sup>19.8<sup>20.</sup></sup> 13.3 14.014.715.215.916.517.117.6 17 9 13.414.9 11.0

I 21 III 21 V 21 VII 21 IX 21 XI 21 I 22 III 22 V 22 VII 22 IX 22 XI 22

#### New mediation motions submitted [ths. Items]

1.2

1.1

VII 22

1.0

VIII 22

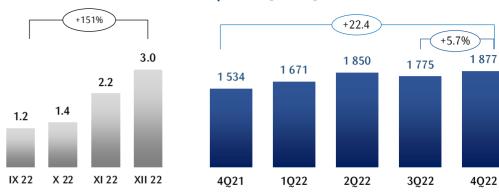
0.9

V 22

1.0

VI 22

#### The number of new court proceedings in a quarter [Items]



# Ambitious ESG goals 2023-2025





- **Highest** volume of new financing for sustainable and transformation projects
- Top 3 Bank ESG financing in each business segment
- **Scope 1 and 2** climate neutrality by 2030
  - >90% energy purchased certified as greensourced
  - **Green bonds** preparation for the issue of the bank's own green bonds



- Financial education of young people
- Support the digital transformation of various social groups including seniors
- **3** Counteracting social exclusion
- Support for the population of Ukraine and for the country reconstruction process



- >40% women in managerial positions>30% women in material risk taker positions
- ~0% gender pay gap
- >2% participation of people with disabilities in job applications, recruitment interviews, and among employees
- <7% voluntary leavers rate
- <14% ratio of total staff turnover
- **Reduction** preparation and publication of a trajectory of CO<sub>2</sub> emission CO<sub>2</sub> emissions reduction

**Expanding** systematic expansion of the scope of disclosures in the scope of CO<sub>2</sub> emissions of the bank

# Credit / ESG ratings and ownership



**Credit Ratings** 

	Long-term rating	
	Deposits	A2
	Liabilities	A3
	Counterparty risk	A2
Moody's	Outlook	Stable
• •		
Investors	Short-term rating	
Investors Service	Short-term rating	
	Short-term rating Deposits	Ρ-1
		P-1 (P)P-2
	Deposits	

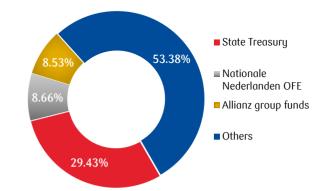
**ESG Ratings** 



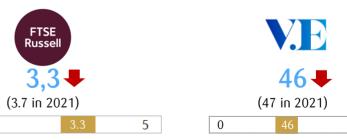


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#### Shareholder structure (number of shares: 1 250 mln)



- The Bank's shares have been listed on the Warsaw Stock Exchange since November 10, 2004.
- Largest domestic bank on the WSE in terms of capitalization PLN 38 billion (as at 30/12/2022)
- Bank PKO BP is included in the following indices: WIG, WIG20, WIG30, WIG Banki, WIG-ESG, FTSE Russell, Stoxx 600
- ISIN: PLPKO0000016; Bloomberg: PKO PW; Reuters: PKOB WA



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# Appendices

# "Covered Bond Act" implementing the Covered Bonds Directive into Polish law



### The main amendments of the Covered Bond Act which came in force since 8th July 2022:

- the decrease of the minimum level of overcollateralization of covered bonds to 5% from 10%
- the change of the minimal principal amount of a covered bond in documentary form (including in the new global covered bond form) to EUR 100 000 or its equivalent in another currency (currently, under the Covered Bonds Act the principal amount of a covered bond in documentary form must exceed EUR 100 000 or its equivalent in other currency)
- expansion of the mandatory items to be included in the terms and conditions of covered bonds (e.g. provisions setting out the manner of performance of the bank's obligation under the covered bonds in case of resolution of the mortgage bank)
- the alignment of the liquidity buffer of mortgage banks to the level set out in the Covered Bonds Directive (currently, mortgage banks are required to maintain a liquidity buffer equivalent to at least six months of nominal interest income on mortgage bonds outstanding to ensure the timely servicing of interest receivables on mortgage bonds)
- clarification of the requirements for derivatives to be registered in the cover pool
- introducing an obligation for the mortgage bank to provide KNF with information on mortgage bond issuances and specifying the scope of this information, as well as certain other information required to be on the bank's website
- new provisions concerning the fines and sanctions that may by imposed on mortgage banks by KNF
- introduction of new rules regarding the labelling of covered bonds



Promoting ESG throughout the organization by conducting the Bank's operations in a sustainable and impactful manner







Social

- Moving to new headquarters from 3Q 2023 – SkySawa building certified by BREEAM Interim "Outstanding" rating
- Promoting pro-environmental real estate solutions
- Being a PKO Group's competence center for green residential mortgages
- Issuing green covered bonds
- Reducing the carbon footprint of Bank's operations and use of plastic and printed materials

- Participating in socially responsible initiatives in the field of mortgage products, including sectoral works
- Educating customers on mortgage loans, green solutions and real estate sector via new dadicated online platform
- Putting emphasis on the transparency of communication with customers by promoting an understandable and simple language



### Corporate Governance

- Promoting diversity as a value
- Creating a friendly working environment and taking care of employees' development
- Enabling effective communication between employees
- Promoting a healthy lifestyle among employees

about our common future by:

We take care

# PKO BH Green Covered Bonds: EU Taxonomy – eligibility criteria for climate change mitigation



Economic activity	Screening Criteria	Residential Single-Family1	Residential Multi-Family2	
7.1 Construction of new buildings Built after 31/12/2020	<b>Nearly Zero-Energy Building</b> Primary energy demand minus 10%	At least 10% lower than the requirements for the primary energy demand of the "Nearly Zero-Energy Building" standard (NZEB). Based on the "Energy Performance of Buildings Directive (EBPD)", the NZEB-standard is implemented in the implemented in Technical Condition 2021 (TC 2021) requirements.		
	Indicative reference values:	$PED \le 63 \text{ kWh/(m^2year)}$	PED ≤ 58.8 kWh/(m²year)	
7.2 Renovation of existing buildings	Major Renovation Cost optimal level	The building renovation complies with the applicable requirements for major renovations as defined in the Energy Performance of Buildings Directive (EBPD), based on the cost optimal level as defined in Technical Condition 2014 (TC 2014).		
Built before 31/12/2020	Property Upgrade Relative improvement ≥ 30% in primary energy demand	Relative improvement in primary energy demand ≥ 30% in comparison to the performance of the building before the renovation. Reductions through renewable energy sources are not taken into account.		
7.7 Acquisition and ownership of buildings	and ownership of the national existing Technical condition TC 2017		tion TC 2017 or newer	
Built before 31/12/2020 <sup>3</sup>	top 15% of the national existing building stock	PED $\leq$ 95 kWh/m <sup>2</sup> year FED $\leq$ 67.7 kWh/m <sup>2</sup> year	$PED \le 85 \ kWh/m^2year$ $FED \le 60.6 \ kWh/m^2year$	

<sup>1</sup> SFH: Single-Family house with 1-2 units | <sup>2</sup>MFH: Multi-Family house with >2 units | PED = primary energy demand | FED = Final energy demand | <sup>3</sup> For buildings built 01/01/2021 or newer, the criteria in 7.1 are required to comply with.

Source: Drees & Sommer low carbon building criteria are based on EU Taxonomy (Delegated Act – July 2021). Criteria are valid for assets located in Poland. Status: May 2022

# PKO BH Green Covered Bonds Methodology: Climate Bonds Initiative (CBI) certified eligibility criteria



Gre	Green Bond criteria - The object fulfills one of the following criteria:			Residential Single-Family <sup>1</sup> and Multi-Family <sup>2</sup>	
Climate Bonds	New Construction <b>or</b> Existing Buildings	1)	<b>Energy standard or year of construction is</b> <b>equal or newer</b> based on CBI's low carbon buildings criteria in compliance with CBI's established residential market proxy for Poland	New buildings complying with Technical Note 2017 or later by year of construction are automatically eligible for qualification for bonds where the mid-point of the bond term is no later than 2025.	
Initiative	Existing Buildings	2)	<b>Property upgrade</b> in compliance with CBI's established residential property upgrade methodology	Major renovation with an improvement in the CO2 emissions figure from EPC from before and after the retrofit, based on tenor of bond, which meet the requirement of Technical Note 2014 (issued after July 2015). Minimum improvement in carbon emissions ≥ 30% Term 1-5 years: 30% improvement Term 5-30 years: 30%-50% linear improvement Term ≥ 30 years: 50% improvement	

# Robust regulatory regime

- Covered bonds and mortgage banks in Poland are regulated by the Polish Covered Bond Act. Covered Bond Directive was implemented into Polish Law in July 2022.
- By law, only **specialized mortgage banks** are entitled to issue covered bonds in Poland.
- Segregation of assets in the cover pool (only mortgages, cash, sovereign debt or similar\*).
- Constant supervision by the independent Cover Pool Monitor (appointed by KNF) over mortgage bank activities and its cover pool.
- Conservative approach of determining **the mortgage lending value** (through-the-cycle) of real estate with rules approved by KNF.
- Strict regulatory limits on mortgage banks and covered bonds including:
  - min. 5% overcollateralisation (OC),
  - liquidity buffer to cover the maximum cumulative net liquidity outflow in 180 days,
  - coverage and liquidity tests.
- Mandatory FX risk limitation.
- Legally defined and predictable bankruptcy procedure (not at the discretion of the issuer) designed to achieve bestpossible outcome for covered bond holders (12 months extension period after issuer's default and switch to passthrough if available liquidity will not be sufficient to repay the bonds within 1 year).
- Covered bonds exempt from bail-in protocol (BRRD)\*\*

\*Securities issued or guaranteed by the State Treasury of the Republic of Poland, the National Bank of Poland, the ECB, governments and central banks of the EU and OECD member states (except for states that have restructured their external debt in the past five years).

\*\*In the event of compulsory restructuring of mortgage banks, covered bonds may be subject to compulsory write-down and/or conversion to the extent the value of the covered bonds exceeds the value of the cover pool.



Bank Hipotecznu



# Regulatory safeguards built into bankruptcy procedure



Process	Covered bond repayment	Recourse and priorities	Hedging
P1. Clear process of bankruptcy declaration P2. Clear deadlines for key actions of bankruptcy procedure defined in the legal framework	<ul><li>C1. Avoidance of time subordination</li><li>C2. Explicit rules for early repayment of covered bonds</li><li>C3. Explicit procedure for treatment of covered bonds, which became due before declaration of bankruptcy</li></ul>	R1. Dual recourse (separate bankruptcy asset pool and general bankruptcy estate) R2. Clearly defined order of priorities of payments from the separate bankruptcy asset pool	<ul> <li>H1. Hedging arrangements will survive declaration of bankruptcy and will be extended by 12 months.</li> <li>H2. Possibility of the bankruptcy receiver to enter into hedging transactions (provided tests are passed)</li> </ul>

#### Covered bondholders entitled with option to intervene in bankruptcy procedure

Coverage test	passed	passed	failed n/a	
Liquidity test	passed	failed		
Covered bonds repayment	<ol> <li>Covered bonds repaid according to terms and conditions of the covered bonds, taking 12 months extension into account</li> <li>Receiver may enter into hedging transactions</li> </ol>	<ol> <li>Maturity date of all covered bonds extended to the date falling three years after the latest cover asset maturity date</li> <li>Distinct rules for pro-rata repayment before extended maturity date</li> </ol>		
Holders option	Resolution of covered bondholders with 2/3 majority to sell the separate bankruptcy asset pool to another bank	<ul><li>Resolution of covered bondholders with 2/3 majority</li><li>1. to disapply maturity extension or</li><li>2. to sell cover assets to another bank or non-bank</li></ul>		

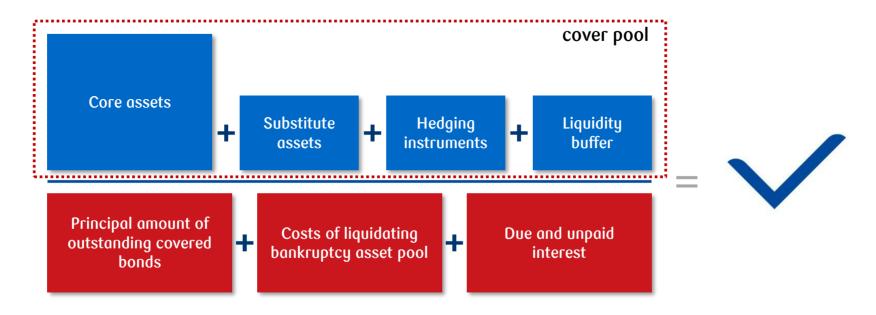
Probability of default according to Moody's Idealised Cumulative Default Probabilities table:

• Baa1: 5Y - 1.10%; 7Y - 1.67%; 10Y - 2.60%

• A3: 5Y - 0.73%; 7Y - 1.11%; 10Y - 1.80%

To ensure the safety of the Covered Bonds the Bank is obliged to perform the coverage test



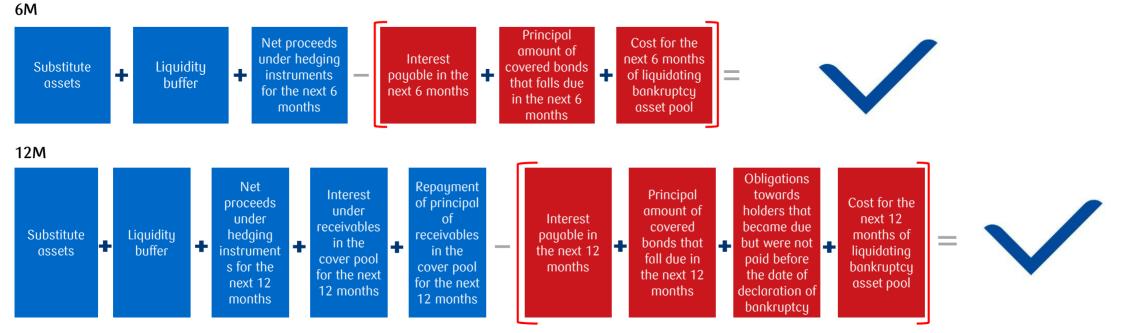


The coverage test:

- verifies whether the value of assets in a cover pool allows for full satisfaction of all claims under outstanding covered bonds,
- must be performed every six months,
- is performed based on the following sets of data:
  - real data as of day of testing,
  - scenarios concerning changes of FX rates.

# ... and the liquidity test





The purpose of the liquidity test is to verify that assets in a cover pool are sufficient for full satisfaction of all claims under outstanding covered bonds, even if their maturity is extended in bankruptcy proceedings.

The liquidity test must be **performed at least every three months**.

The test is performed based on the following sets of data:

- real data as of day of testing,
- scenarios concerning changes of FX rates,
- scenarios concerning the shift of interest rate curves.

# Experienced management team



Katarzyna Kurkowska-Szczechowicz

# Vice President of the Management Board directing the work of the Management Board

graduate of the Faculty of Economics at the Warsaw School of Economics, majoring in Finance and Banking, and a master's degree in law from the Faculty of Law and Administration at the University of Warsaw. Responsible for internal audit, HR, compliance departments

### Katarzyna Surdy

#### Vice President of the Management Board

graduate of the Faculty of Law at the University of Warsaw.Since 2014, she has been associated with the PKO BP Group where she participated in the project of establishing of PKO Bank Hipoteczny. Responsible for treasury, legal and product departments.

### Piotr Kochanek

#### Vice President of the Management Board

graduate of the Faculty of Mathematics of the Silesian University of Technology. Since 2014, he has been associated with PKO Bank Hipoteczny as Head of the Risk Department. Responsible for finance and accounting, risk and credit departments.

### Stanisław Skoczylas

Vice President of the Management Board

graduate of the Cracow University of Economics (now Cracow University of Economics) with a degree in Finance and Banking. Responsible for finance and financial controlling departments.



#### Contact

Katarzyna Majchrzak - Head of Treasury 15 Puławska Str. 02-515 Warsaw Tel: +48 887 098 809 e-mail: katarzyna.majchrzak@pkobh.pl e-mail: ir@pkobh.pl



Edyta Kusińska – IR and PR Expert 15 Puławska Str. 02-515 Warsaw Tel: +48 722 030 099 e-mail: edyta.kusinska@pkobh.pl e-mail: ir@pkobh.pl

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