

BAWAG GROUP

SUSTAINABLE FINANCE

IMPACT REPORTING – RESIDENTIAL BUILDINGS

28.04.2025 TSCHÄTSCH | SONNENSCHEIN | GREIßINGER | EISELE

GREEN BOND IMPACT – BAWAG GROUP

Summary

BAWAG	Low Carbon Buildings	Year of Issuance	Туре	Signed Amount ^a	Annual final energy savings ^b	Annual CO2 emissions avoidance ^c	
	Unit	[уууу]	[-]	[EUR]	[MWh/year]	[tCO2/year]	
	BAWAG Group - AT, DE, NL	2024	Low Carbon Building	5.908.694.447	407.561	62.890	
	Residential - Austria	2024	Low Carbon Building	2.411.928.510	311.811	40.224	
	Single family houses - AT	2024	Low Carbon Building	1.876.499.781	282.349	36.423	
EU Taxonomy -	Multy family houses - AT	2024	Low Carbon Building	535.428.729	29.463	3.801	
Construction and real	Residential - Netherlands	2024	Low Carbon Building	3.259.853.901	52.335	12.246	
estate activities -	Single family houses - NL	2024	Low Carbon Building	2.805.812.763	46.884	10.971	
climate change mitigation	Multy family houses - NL	2024	Low Carbon Building	454.041.138	5.452	1.276	
	Residential - Germany	2024	Low Carbon Building	236.912.036	43.414	10.419	
	Single family houses - DE	2024	Low Carbon Building	163.582.736	27.242	6.538	
	Multy family houses - DE	2024	Low Carbon Building	73.329.300	16.172	3.881	
a Legally committed signed amount by the issuer for the porfolio or portfolio components eligible for green bond financing.							
b Final energy savings calculated u	using the difference between the top	15% and the natio	nal building stock benchmarks				
c Greenhouse gas emissions avoid	lance determined by multiplying the	final energy saving	s with the carbon emissions intensity				

Drees & Sommer impact reporting based on the EU Taxonomy eligibility criteria for construction and real estate activities for the residential portfolio in Austria, Germany and The Netherlands. Status: April 2025

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Overview eligibility criteria – Austria – April 2025

			Single family houses	Multi family houses			
New Nearly Zero Energy Buildings or 1			The primary energy demand is at least 10% lower then the " Nearly Zero Energy Building"-Standard (NZEB)'s threshold. Based on "Energy Performance of Buildings Directive (EPBD)", the NZEB is set in " OIB-RL6"-"Kostenoptimalität und EU-Taxonomie" (OIB-330.6-070/24)				
Existing buildings		built after 31 st December 2020		on: NZEB-10%: $PED_{H,n.ren.} \le 36.9 \text{ kWh/m}^2_{GFA}a$ on: NZEB-10%: $PED_{H,n.ren.} \le 21.6 \text{ kWh/m}^2_{GFA}a$			
	2)	Energy performance certificate (EPC)	Energy performance certificate with energy efficiency rating of A or better. - heating demand HWB _{Ref,SK} of 25 kWh/m ² _{GFA} a or less, or - energy efficiency factor f _{GEE,SK} of 0.85 or less, or - primary energy demand PEB _{SK} of 80 kWh/m ² _{GFA} a or less				
Existing buildings built before	Sa) Top 15% Building energy code		All counties: OIB-R6-2007 (OIB-300.6-038/07) with stringency of 01.01.2010	Burgenland: OIB-R6-2015 Vorarlberg: OIB-R6-2011 All other counties: OIB-R6-2007 with string. 01.01.2010			
2021	3b)	Top 15% Year of construction/ <u>permit</u>	Salzburg: 2012 All other counties: 2010	Burgenland: 2017 Vorarlberg: 2013 Salzburg: 2012 All other counties: 2010			
	3c)	Top 15% Year of <u>major</u> renovation	Oberösterreich: 2018 All other counties: 2017	Oberösterreich: 2018 Burgenland, Vorarlberg: 2022 All other counties: 2017			
Renovation of Existing	4a)	Major renovation	Major renovation meets cost-optimal minimum energy performance requirements in accordance with the Energy Performance (EPBD): Requirements for total energy efficiency as referenced in "OIB-RL6:2015" (OIB-330.6-009/15) or ne - PED _{H,n.ren.} ≤ 44 kWh/m ² _{GFA} a or - energy efficiency factor f _{GEE,(RK)} ≤ 1.05				
buildings	4b)	Property upgrade	Relative improvement in non-renewable primary energy demand	\geq 30% in comparison to the performance of the building before the renovation.			

Drees & Sommer low carbon building criteria are based on EU Taxonomy (Delegated Act – June 2021 – technical criteria for climate change mitigation). Criteria are valid for assets located in Austria. Status: **April 2025**. Assets do need to comply only with one of the criteria 1) – 4) to proof eligibility, according to the corresponding asset category and usage.



Overview reference benchmarks – Austria – April 2025

	Ø-Refere	ence values: Energy	Ø-Reference values: CO ₂ -equivalent		
Single family houses	Primary energy factor mean residential	Building-weighted reference benchmark: FED_H = 293.8 kWh/m ² _{GFA} a PED_H = 378.4 kWh/m ² _{GFA} a	CO ₂ emission intensity mean residential	Building-weighted reference benchmark (heating, hot water): 37.8 kgCO ₂ /m² _{GFA} a	
Multi family houses	(heating, hot water): 1.288	Building-weighted reference benchmark: FED_H = 186.1 kWh/m ² _{GFA} a PED_H = 239.6 kWh/m ² _{GFA} a	(heating, hot water): 0.129 kgCO ₂ /kWh	Building-weighted reference benchmark (heating, hot water): 23.9 kgCO ₂ /m ² _{GFA} a	

 $FED_{H} = final energy demand for heating and hot water$ $FED_{H} = final energy demand for heating and cooling$ GFA = heated gross floor area PED_{H,C} = primary energy demand for heating and hot water PED_{H,C} = primary energy demand for heating and cooling



Austrian residential real estate portfolio

				Share of				Annual	
	l			Total		Average	Annual final	primary	Annual CO2
	Year of			Portfolio	Eligibility for	portfolio	energy	energy	emissions
Low Carbon Buildings	Issuance	Туре	Signed Amount ^a	Financing ^b	green bonds ^c	lifetime ^d	savings ^e	savings ^f	avoidance ^g
Unit	[уууу]	[-]	[EUR]	[%]	[%]	[years]	[MWh/year]	[MWh/year]	[tCO2/year]
BAWAG Group	2024	Low Carbon Building	2.411.928.510	100,0	100	24,9	311.811	401.613	40.224
Single-family houses	2024	Low Carbon Building	1.876.499.781	77,8	100	24,6	282.349	363.665	36.423
Multi-family houses	2024	Low Carbon Building	535.428.729	22,2	100	25,6	29.463	37.948	3.801

^a Legally committed signed amount by the issuer for the porfolio or portfolio components eligible for green bond financing.

^b Portion of the total portfolio cost that is financed by the issuer.

^c Portion of the total portfolio cost that is eligible for Green Bond.

^d average remaining term of Green Bond loan within the total portfolio.

^e Final energy savings calculated using the difference between the top 15% and the national building stock benchmarks

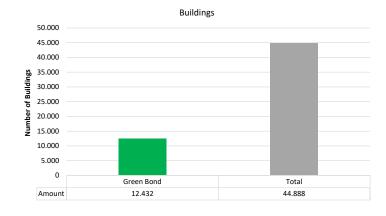
^f Primary energy savings determined by multiplying the final energy savings with the primary energy factor

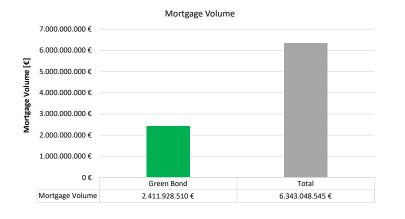
^g Greenhouse gas emissions avoidance determined by multiplying the final energy savings with the carbon emissions intensity

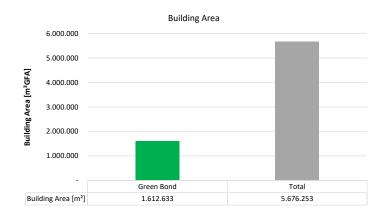
The portfolio assessment applies the established green bond methodology with its eligibility criteria for Austrian residential real estate.

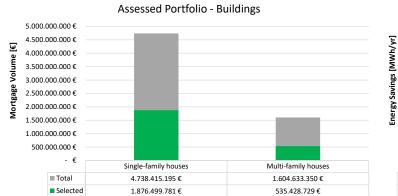


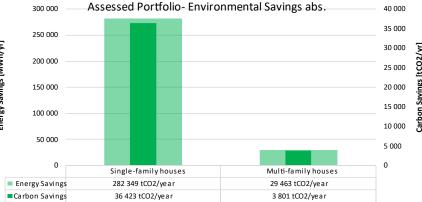
Austrian residential real estate portfolio – Impact Reporting











Austrian Green Bond Portfolio:

2	Buildings:	12.432
	Exposure:	2.411.928.510 EUR
	Final Energy savings:	311.811 MWh/year
	Primary Energy savings:	401.613 MWh/year
	Carbon emissions savings:	40.224 tCO ₂ /year



EU Taxonomy eligibility criteria – climate change mitigation – residential assets in the Netherlands

Economic activity	Screening criteria		Single	-Family houses ¹	N	Aulti-Family houses ²				
7.1 Construction of new buildings	Nearly Zero-Energy Building Primary energy demand ³ 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 "BENG" (Bijna Energieneutrale Gebouwen) requirements (since 01.01.2021). There are thresholds for final energy demand (BENG 1), primary energy use (BENG 2) and share of renewable energies (BENG3), whereby the BENG 2 value defines the NZEB standard.							
of new bundings	Indicative reference values PEC ⁴ minus 10%: NZEB -10%		Residential Buildings general: PEC ≤ 45 kWh/(m²a) Ground Floor: PEC ≤ 27 kWh/(m²a)							
7.2	Major Renovation Cost-optimal level ⁶	The	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 for residential buildings: BENG 2; PEC ≤ 30 - 70 kWh/(m²a)							
Renovation of existing buildings	Property Upgrade Relative improvement ≥ 30% in primary energy demand	Relat	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.							
					Energy performance class A or better					
			SFH & MFH		Until 31.12.2020	Since 01.01.2021				
7.7				Energy-Index	Primary energy demand in kWh/(m ² a)	Primary energy use in kWh/(m ² a)				
Acquisition	Energy Performance Certificate		A++++ ≤	-	-	0				
and ownership	EPC at least class A ⁵		A+++ ≤	-	-	50				
of buildings ⁶			A++ ≤	-	-	75				
			A+ ≤	-	-	105				
			A≤	1,05	96,8	160				

¹SFH: Single-Family house with 1-2 units | ²MFH: Multi-Family house with >2 units | ³Primary energy demand = Primärenergiebedarf | ⁴Primary energy consumption (PEC) = Primärenergieverbrauch | ⁵ The EU Taxonomy Regulation focuses on primary energy demand in its eligibility criteria. In the Netherlands, energy performance certificates (EPCs) are issued based on primary energy use. In this study, therefore the top 15%-eligibility criteria are also indicated on metered consumption figures. | ⁶The latest public available report on the calculation of 'cost-optimal levels of minimum energy performance requirements' is from 2018/2019, a revised version is expected to be published in 2023/2024.

EU Taxonomy eligibility criteria – climate change mitigation – residential assets in the Netherlands

Economic activity	Screening criteria	Single	e-Family houses		Multi-Family houses				
			Energy performance class						
		SFH & MFH		Until 31.12.2020	Since 01.01.2021				
			Energy-Index	Primary energy demand ¹ in kWh/(m ² a) Primary energy use ² in kWh/(m ² a)				
7.7		A++++ ≤	-	-	0				
		A+++ ≤	-	-	50				
Acquisition	top 15%	A++ ≤	-	-	75				
and ownership	of the national existing building stock	A+ ≤	1,05	96,8	105				
of buildings		Primary energy use	Primary energy use: ≤ 39 kWh/(m²a) Primary energy use of Bouwbesluit 2006 or better Final energy demand ³ : ≤ 72 kWh/(m²a)		imary energy use: ≤ 42 kWh/(m²a) energy use of Bouwbesluit 2015 or better al energy demand: ≤ 61 kWh/(m²a)				

¹ Primary energy demand = Primärenergiebedarf |² Primary energy use = Primary energy use = Primary energy use. In the Netherlands, energy performance certificates (EPCs) are issued based on primary energy use. In this study, therefore the top 15%-eligibility criteria are also indicated on metered consumption figures.



Energy & CO₂-benchmarks – residential assets in the Netherlands

	Ø-Refe	erence values: Energ	;y		Ø-Reference values: CO ₂ -equivalent		
	Label	Energy-Index 01/01/2015 31/12/2020	Primary energy demand 01/01/2021 31/05/2022	Primary energy demand 02/06/2022			
Building stock weighted reference	A++++		≤ 0	≤ 0			
benchmarks:	A+++		> 0 & ≤ 50	> 0 & ≤ 50			
End energy:	A++		> 50 & ≤ 80	> 50 & ≤ 75		Building stock weighted reference benchmark: 22.6 kgCO ₂ /m²a	
Ø 96.7 kWh/m²a	A+		> 80 & ≤ 110	> 75 & ≤ 105	Building stock weighted		
<i>p</i> 30.7 kwn/m a	А	≤ 1.20	> 110 & ≤ 165	> 105 & ≤ 160	reference benchmark:		
Primary energy factor:	В	1.21 - 1.40	> 165 & ≤ 195	> 160 & ≤ 190	CO ₂ -Intensity:		
Ø 1.05	С	1.41 - 1.80	> 195 & ≤ 255	> 190 & ≤ 250	Ø 0.234 kgCO ₂ /kWh		
	D	1.81 - 2.10	> 255 & ≤ 300	> 250 & ≤ 290			
Primary energy:	E	2.11 - 2.40	> 300 & ≤ 345	> 290 & ≤ 335			
Ø 101.6 kWh/m²a	F	2.41 - 2.70	> 345 & ≤ 390	> 335 & ≤ 380			
	G	> 2.70	> 390	> 380			

Dutch residential real estate portfolio – Impact Reporting

Low Carbon Buildings	Year of Issuance			b	Eligibility for	portfolio	07	Annual CO2 emissions avoidance ^f
Unit	[уууу]	[-]	[EUR]	[%]	[%]	[years]	[MWh/year]	[tCO2/year]
BAWAG P.S.K.	2024	Low Carbon Building	3.259.853.901	100,0	100	29,7	52.335	12.246
Single family houses - NL	2024	Low Carbon Building	2.805.812.763	86,1	100	29,8	46.884	10.971
Multy family houses - NL	2024	Low Carbon Building	454.041.138	13,9	100	29,2	5.452	1.276

^a Legally committed signed amount by the issuer for the porfolio or portfolio components eligible for green bond financing.

^b Portion of the total portfolio cost that is financed by the issuer.

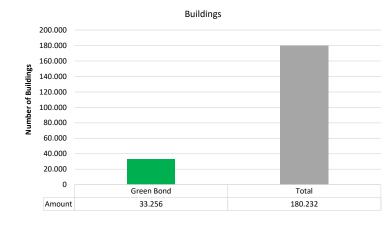
^c Portion of the total portfolio cost that is eligible for Green Bond.

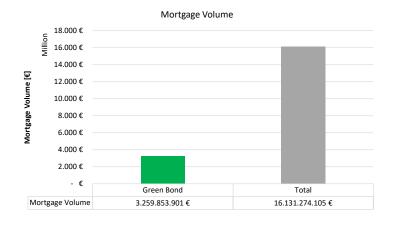
^d average remaining term of Green Bond Ioan within the total portfolio.

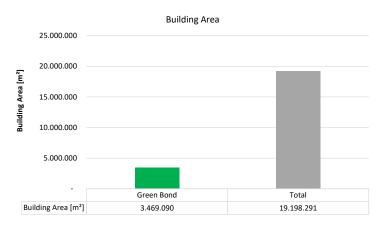
^e Final energy savings calculated using the difference between the top 15% and the national building stock benchmarks

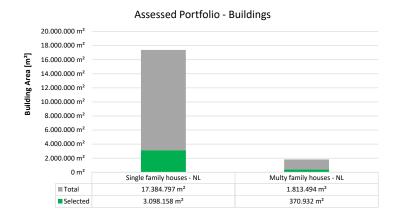
^f Greenhouse gas emissions avoidance determined by multiplying the final energy savings with the carbon emissions intensity

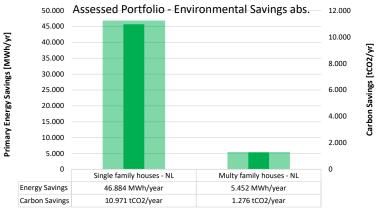
Dutch residential real estate portfolio – Impact Reporting











Dutch Green Bond Portfolio:

	Buildings:	33.256
	Exposure:	3.259.853.901 EUR
-	Energy savings:	52.335 MWh/year
	Carbon emissions savings	s: 12.246 tCO ₂ /year

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EU Taxonomy – eligibility criteria for climate change mitigation – residential assets in Germany

Economic activity	Screening criteria	Single-Family houses ¹	Multi-Family houses ²				
7.1 Construction of new buildings	Nearly Zero-Energy Building Primary energy demand ³ minus 10%	At least 10% lower than the requirements for the primary energy demand of the "Nearly Zero-Energy Building" stand Based on the "Energy Performance of Buildings Directive (EBPD)", the NZEB-standard is implemented in the GEG 2023 (Gebäudeenergiegesetz) requirements (updated version of the G					
7.2	Major Renovation Cost optimal level	The building renovation complies with the applicable requirements for major renovations as defined in the Energy Performa Buildings Directive (EBPD), based on the cost optimal level ⁷ as defined in EnEV 2016, GEG 2020 and GEG 2023. (EnEV 2016 as EnEV 2014 with amendments from 01.01.2016, GEG 2020 from 01.11.2020, GEG 2023 from 01.01.2023)					
Renovation of existing buildings	Property Upgrade Relative improvement ≥ 30% in primary energy demand		ement 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.				
	Energy Performance Certificate EPC at least class A	Energy performance class A+ or A Final energy demand ⁴ : A+ \leq 30 A \leq 50 kWh/(m ² a)					
7.7 Acquisition and ownership	top 159/	Energy performance class A+, A or B with a final energy demand: A+ ≤ 30 A ≤ 50 kWh/(m²a) B ≤ 75 kWh/(m²a)	Energy performance class A+, A or B with a final energy demand: A+ ≤ 30 A ≤ 50 B*≤ 69 kWh/(m²a) ⁸				
of buildings	top 15% of the national existing building stock ⁵	Primary energy consumption ⁹ : Primary energy demand: Final metered energy use ⁶ : Carbon intensity CO ₂ :	≤ 69 kWh/(m²a) EnEV 2009 or better ≤ 70 kWh/(m²a) ≤ 16 kgCO2/m²a				

¹SFH: Single-Family house with 1-2 units | ²MFH: Multi-Family house with >2 units | ³Primary energy consumption = Primärenergiebedarf | ⁴Final energy demand = Endenergiebedarf | ⁴Final energy demand = Endenergiebedarf | ⁵The EU Taxonomy Regulation focuses on primary energy consumption. In this study, therefore the top 15%-eligibility criteria are also indicated on metered consumption figures. | ⁶Final metered energy use = gemessener Endenergieverbrauch, value final energy for heat in relation to the underlying balance limit of the demand certificate | ⁷The latest public available report on the calculation of 'cost-optimal levels of minimum energy performance requirements' is from August 2018, a revised version is expected to be published in 2023/2024. | ⁸ B* The official EPC label B is set < 75 kWh/(m²a), including not the full scale of the possible EPC label B range, due to the top15% distribution of the representative existing building stock in Germany. | ⁹ Primary energy consumption = gemessener Primärenergieverbrauch, value refers to the underlying balance limit of the demand certificate | ¹⁰ Final energy bereformance requirements' is from August 2018, a revised version is expected to be primary energy consumption = gemessener Primärenergieverbrauch, value refers to the underlying balance limit of the demand certificate energy and is set < 75 kWh/(m²a), including not the full scale of the possible EPC label B range, due to the top15% distribution of the representative existing building stock in Germany. | ⁹ Primary energy consumption = gemessener Primärenergieverbrauch, value refers to the underlying balance limit of the demand certificate energy energy for heat in relation to the underlying balance limit of the demand certificate energy energy for heat in relation to the underlying balance limit of the demand energy ener

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Energy & CO₂-Benchmarks – residential assets in Germany

-	Residential	Residential buidings	
	National reference building stock	Unit	
Final energy	Building stock weighted reference benchmark: final energy consumption	kWh/m²a	Heating: 133 Electricity: 28 Total: 161
CO. Emissions	Building stock weighted reference benchmark: CO ₂ -emisisons	kgCO ₂ /m²a	Heating: 30 Electricity: 11 Total: 41
CO ₂ -Emissions	National energy carrier distribution-weighted: CO ₂ -equivalent intensity	gCO ₂ /kWh	Heating:229Electricity:380Ref.:255
Drimony on orga	Building stock weighted reference benchmark: primary energy consumption	kWh/m²a	Heating: 132 Electricity: 50 Ref.: 182
Primary energy	National energy carrier distribution-weighted: primary energy factor	-	Heating: 0,99 Electricity: 1,80 Ref.: 1,13

Drees & Sommer benchmarks for assets located in Germany. Status: February 2025. Operational carbon emissions cover scope 1 and scope 2 emissions, according to national scope.



GREEN BOND IMPACT REPORT BAWAG GROUP

German residential real estate portfolio – Impact Reporting

Low Carbon Buildings	Year of Issuance	Туре				energy	Annual CO2 emissions avoidance ^f
Unit	[уууу]	[-]	[EUR]	[%]	[%]	[MWh/year]	[tCO2/year]
BAWAG Group	2024	Low Carbon Building	236.912.036	100	100	43.414	10.419
Einfamilienhaus	2024	Low Carbon Building	163.582.736	69,0	100	27.242	6.538
Mehrfamilienhaus	2024	Low Carbon Building	73.329.300	31,0	100	16.172	3.881

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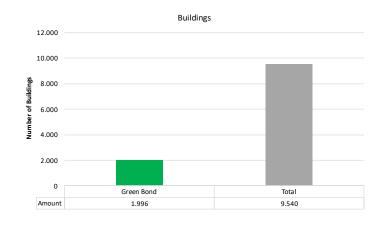
^c Portion of the total portfolio cost that is eligible for Green Bond.

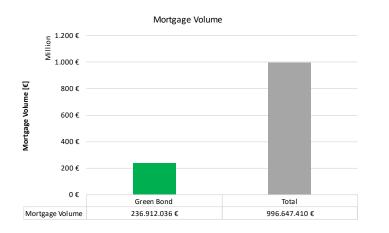
^d average remaining term of Green Bond loan within the total portfolio.

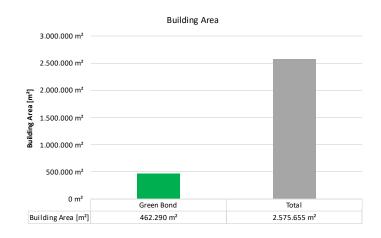
^e Final energy savings calculated using the difference between the top 15% and the national building stock benchmarks

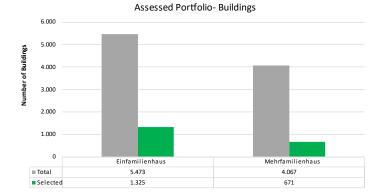
^f Greenhouse gas emissions avoidance determined by multiplying the final energy savings with the carbon emissions intensity

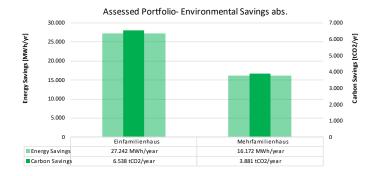
GREEN BOND IMPACT REPORT BAWAG GROUP German residential real estate portfolio – Impact Reporting











German Green Bond Portfolio:

•	Buildings:	1.996
•	Exposure:	236.912.036 EUR
•	Energy savings:	43.414 MWh/year
-	Carbon emissions savings:	10.419 tCO ₂ /year

UNITING **OPPOSITES TO CREATE** A WORLD WE WANT TO LIVE IN

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