



### RLBOOE – GREEN BOND ELIGIBILITY CRITERIA

	<b>Green Bond Kriterien</b> Das Objekt erfüllt eine der folgenden Bedingungen:	<b>Green Bond criteria</b> The object fulfills one of the following criteria:	Residential Mietzinshaus / Multi-Family	Non-Residential Büro/Office	Non-Residential Handel/Retail	Non-Residential  Büro/Office	Non-Residential  Lager/Logistics	
1)	Energiestandard oder neuer Baubewilligung neuer als 2021	Building energy code or newer for buildings built after 2021	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 "OIB-RL6-Nationaler Plan (OIB-330.6-005/18)" requirements.			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 GEG 2020 (Gebäude-Energie-Gesetz) requirements.		
2)	Energiestandard oder neuer Baubewilligung bis 2021	Building energy code or newer for buildings built before 2021	Burgenland, Vorarlberg: OIB-R6-2011 (OIB-330.6-94/11) All other counties OIB-R6-2007 (OIB-330.6-038/07) with stringency of 01.01.2010	All counties: OIB-R6-2007 (OIB-330.6-038/07)	without stringency of 01.01.2010	EnEV 2014	EnEV 2009	
3)	Baujahr entspricht oder ist neuer basierend auf dem Energiestandard und dessen Zeitpunkt des Inkrafttretens im jeweiligen Bundesland	Year of construction is equal or newer based on the building energy code and its date of coming into force for each county	Burgenland, Vorarlberg: 2013 Salzburg: 2012 All other counties: 2010	<u>Tirol &amp; Vorarlberg:</u> 2008 <u>Burgenland, Kärnten, Oberöstern</u> <u>Niederösterreich:</u> 2010 <u>Salzburg:</u> 2012	reich, Steiermark & Wien: 2009	Buildings built after 2014 based on EnEV 2014	Buildings built after 2014 based on EnEV 2014	
4)	Energieeffizienzklasse baserend auf dem Energieausweis (Bedarf oder Verbrauch)	Energy efficiency rating based on energy performance certificate (demand or consumption)	All counties: Energy performance certificate with energy efficiency label A or better complying with - heating energy demand $HWB_{(REF),SK}$ of 25 kWh/m²yr or less, - primary energy demand $PEB_{SK}$ of 80 kWh/m²yr or less, - CO2-emissions intensity of $CO2_{2eq,Sk}$ of 15 kg/m²yr or less - energy efficiency factor $f_{GEE,(RK)}$ of 0.85 or less			Energy Performance certificate with an EPC label A or better. This requirement is not applicable for Non-Residential buildings in Germany.		
5)	Energetische Sanierung basierend auf Energie und CO2-Einsparungen gemäß EU Taxonomy 2020	Property upgrade based on reduction in primary energy demand	Requirements for primary energy demand and carbon emissions  as referenced in OIR-RI 6:2015 (OIR-330 6:009/15) and cost ontimum report for Austria with energy  as referen			Requirements for primary ener as referenced GEG 2020 / EnEV with amendments from 01.01.2	ments for primary energy demand and carbon emissions enced GEG 2020 / EnEV 2016. (EnEV 2016 as EnEV 2014 endments from 01.01.2016) and cost optimal report for	
			Relative improvement in primary energy demand ≥ 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). Criteria are valid for assets located in Austria and Germany. Status: January 2022. Assets do need to comply only with one of the criteria 1) – 5) to proof eligibility.





### GREEN BOND IMPACT REPORT

### Real estate portfolio – Summary

Low Carbon Buildings	Year of Issuance	Туре	Signed Amount <sup>a</sup>		Eligibility for	portfolio	Annual final energy savings <sup>e</sup>	Annual CO <sub>2,eq.</sub> emissions avoidance <sup>g</sup>
Unit	[уууу]	[-]	[EUR]	[%]	[%]	[years]	[MWh/year]	[tCO2/year]
RLBOOE	2023	Low Carbon Building	166.688.546	90,2	100	13,6	37.273	7.524
Office buildings -Austria	2023	Low Carbon Building	9.750.389	5,8	100	18,4	368	77
Retail buildings -Austria	2023	Low Carbon Building	103.071.890	61,8	100	11,5	27.056	5.655
Multifamilybuildings - Austria	2023	Low Carbon Building	33.651.603	20,2	100	14,9	8.643	1.504
Office buildings -Germany	2023	Low Carbon Building	3.829.941	2,3	100	12,8	79	18
Logistics buildings - Germany	2023	Low Carbon Building	16.384.724	9,8	100	6,7	1.128	271

<sup>&</sup>lt;sup>a</sup> Legally committed signed amount by the issuer for the porfolio or portfolio components eligible for green bond financing.

Drees & Sommer evaluation based on D&S methodology (07/2023) and RLBOOE portfolio client data.



<sup>&</sup>lt;sup>b</sup> Portion of the total portfolio cost that is financed by the issuer.

<sup>&</sup>lt;sup>c</sup> Portion of the total portfolio cost that is eligible for Green Bond.

<sup>&</sup>lt;sup>d</sup> average remaining term of Green Bond loan within the total portfolio.

<sup>&</sup>lt;sup>e</sup> Final energy savings calculated using the difference between the top 15% and the national building stock benchmarks

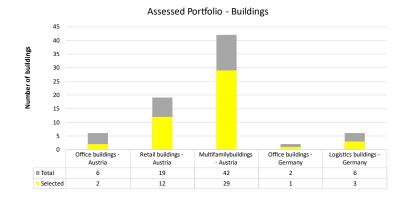
<sup>&</sup>lt;sup>f</sup> Primary energy savings determined by multiplying the final energy savings with the primary energy factor

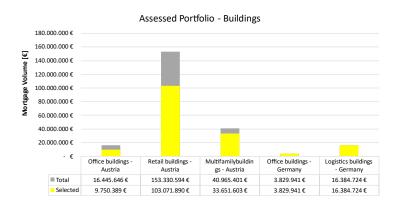
<sup>&</sup>lt;sup>g</sup> Greenhouse gas emissions avoidance determined by multiplying the final energy savings with the carbon emissions intensity

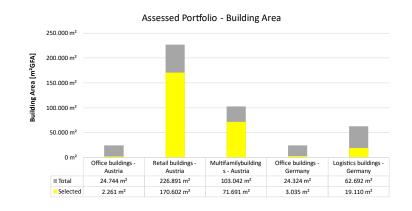
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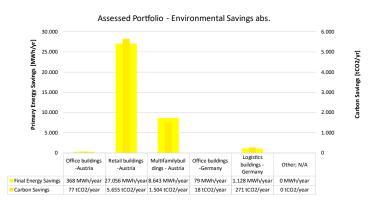
### **GREEN BOND IMPACT REPORT**

### Real estate portfolio









#### **Green Bond Portfolio:**

■ Buildings: 47

• Area: 266 699 m<sup>2</sup>

Mortag Volume : 166 688 546 EUR

■ Final energy savings: 37 273 MWh/year

Carbon emissions savings: 7 524 tCO<sub>2eq</sub>/year











Real estate portfolio - Carbon emissions and energy savings – Methodology (example Office buildings)

#### Austrias' average Office building:

primary energy	demand
(reference year	2023)

$$EP_{\emptyset,Office} = 308.5 \text{ kWh/m}^2GFAa$$

### **Green Bond eligible asset:**

■ primary energy demand EP<sub>GB,Office</sub> = XYZ kWh/m²year

carbon emissions intensity CEI<sub>GB,Office</sub> = XYZ kgCO2/m²year (depending on EPC-Data/technical condition/year of construction)
 (if data not available, mean cabon emissions intensity will be applied)





#### **Primary Energy Savings:**

**Difference** in **Primary energy demand** between green bond asset ( $EP_{GB,MFH}$ ) and Austria's mean office building ( $EP_{\emptyset,Office}$ ) multiplied with the area of the green bond asset

#### **Carbon Emissions Savings:**

Difference in Carbon emissions intensity between green bond asset (CEI<sub>GB,MFH</sub>) and Austria's mean office building (CEI<sub>Ø,Office</sub>) multiplied with the area of the green bond asset





### Energy & CO<sub>2</sub> Benchmarks – Office buildings

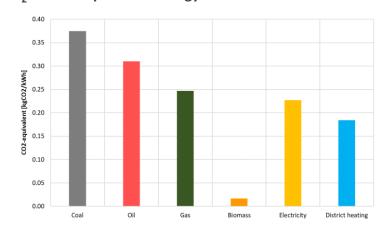
#### Energy usage per energy standard and building age



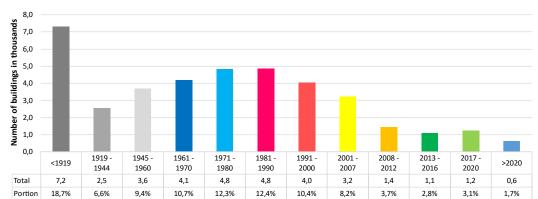
Building-weighted national reference benchmark **office** buildings (heating, hw, cooling):

Final energy demand: Ø 221.0 kWh/m<sup>2</sup><sub>GFA</sub>a Primary energy demand: Ø 308.5 kWh/m<sup>2</sup><sub>GFA</sub>a

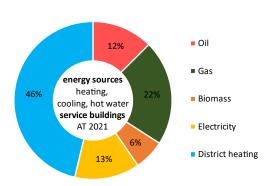
#### CO<sub>2</sub> emission per used energy source



#### **Building stock per age**



#### Used energy source



CO<sub>2</sub> emission intensity non-residential:

Ø 0.209 kgCO<sub>2</sub>/kWh

Building-weighted national reference benchmark office: (heating, cooling):

CO<sub>2</sub> emission:

Ø 46.2 kgCO<sub>2</sub>/m<sup>2</sup><sub>GFA</sub>a





### Overview reference benchmarks – Austria

_	Ø-Refere	ence values: Energy	Ø-Reference values: CO₂-equivalent		
Single family houses	Primary energy factor mean residential (heating, hot water):	$FED_{H} = 299.8 \text{ kWh/m}^{2}_{GFA}a$ $PED_{H} = 374.0 \text{ kWh/m}^{2}_{GFA}a$ $PED_{tot} = 393.2 \text{ kWh/m}^{2}_{GFA}a$	CO <sub>2</sub> emission intensity mean residential (heating, hot water):	Building-weighted reference benchmark (heating, hot water): 52.2 kgCO <sub>2</sub> /m <sup>2</sup> <sub>GFA</sub> a  CO2 <sub>tot</sub> = 54.8 kgCO2/m <sup>2</sup> <sub>GFA</sub> a	
Multi family houses	1.247 Electricity: 1.63	$FED_{H} = 189.9 \text{ kWh/m}^{2}_{GFA}a$ $PED_{H} = 236.9 \text{ kWh/m}^{2}_{GFA}a$ $PED_{tot} = 265.9 \text{ kWh/m}^{2}_{GFA}a$	- 0.174 kgCO <sub>2</sub> /kWh Electricity: 0.227 kgCO <sub>2</sub> /kWh	Building-weighted reference benchmark (heating, hot water):  33.1 kgCO <sub>2</sub> /m <sup>2</sup> <sub>GFA</sub> a  CO2 <sub>tot</sub> = 37.1kgCO <sub>2</sub> /m <sup>2</sup> <sub>GFA</sub> a	
Office buildings	Primary energy factor mean non-residential (heating, cooling): 1.396  Electricity: 1.63	$FED_{H,C} = 221.0 \text{ kWh/m}^2_{GFA}a$ $PED_{H,C} = 308.5 \text{ kWh/m}^2_{GFA}a$ $PED_{tot} = 413.3 \text{ kWh/m}^2_{GFA}a$	CO <sub>2</sub> emission intensity mean non-residential (heating, cooling): 0.209 kgCO <sub>2</sub> /kWh	Building-weighted reference benchmark (heating, cooling): 46.2 kgCO <sub>2</sub> /m <sup>2</sup> <sub>GFA</sub> a  CO2 <sub>tot</sub> = 60.8 kgCO2/m <sup>2</sup> <sub>GFA</sub> a	
Retail buildings		$FED_{H,C} = 224.9 \text{ kWh/m}^2_{GFA}a$ $PED_{H,C} = 313.9 \text{ kWh/m}^2_{GFA}a$ $PED_{tot} = 531.2 \text{kWh/m}^2_{GFA}a$	Electricity: 0.227 kgCO₂/kWh	Building-weighted reference benchmark (heating, cooling):  47.0 kgCO <sub>2</sub> /m <sup>2</sup> <sub>GFA</sub> a  CO2 <sub>tot</sub> = 77.8 kgCO2/m <sup>2</sup> <sub>GFA</sub> a	





## Overview reference benchmarks – Germany

_	Ø-Refere	ence values: Energy	Ø-Reference values: CO₂-equivalent		
Office buildings	Primary energy factor mean non-residential (heating, hot water): 0,971  Electricity: 1.80	$FED_{H} = 136 \text{ kWh/m}^{2}_{NFA}a$ $PED_{H} = 132 \text{ kWh/m}^{2}_{NFA}a$ $PED_{tot} = 222 \text{ kWh/m}^{2}_{NFA}a$	CO <sub>2</sub> emission intensity mean non-residential (heating, hot water): 0.223 kgCO <sub>2</sub> /kWh  Electricity: 0.560 kgCO <sub>2</sub> /kWh	Building-weighted reference benchmark (heating, hot water):  30.3 kgCO <sub>2</sub> /m <sup>2</sup> <sub>GFA</sub> a  CO2 <sub>tot</sub> = 58.3 kgCO2/m <sup>2</sup> <sub>GFA</sub> a	
Logistics buildings	Primary energy factor mean non-residential (heating): 1.098  Electricity: 1.80	$FED_{H} = 82 \text{ kWh/m}^{2}_{NFA}a$ $PED_{H} = 90 \text{ kWh/m}^{2}_{NFA}a$ $PED_{tot} = 184 \text{ kWh/m}^{2}_{NFA}a$	CO <sub>2</sub> emission intensity mean non-residential (heating, cooling): 0.240 kgCO <sub>2</sub> /kWh  Electricity: 0.560 kgCO <sub>2</sub> /kWh	Building-weighted reference benchmark (heating, cooling):  19.7 kgCO <sub>2</sub> /m <sup>2</sup> <sub>GFA</sub> a  CO2 <sub>tot</sub> = 48.8 kgCO2/m <sup>2</sup> <sub>GFA</sub> a	

FED<sub>H</sub> = final energy demand for heating and hot water NFA = conditioned net floor area  $PED_{\rm H}$  = primary energy demand for heating and hot water







