



# Bank of Ireland Green Bond Impact Report

as at 31 December 2021



**Bank of  
Ireland**





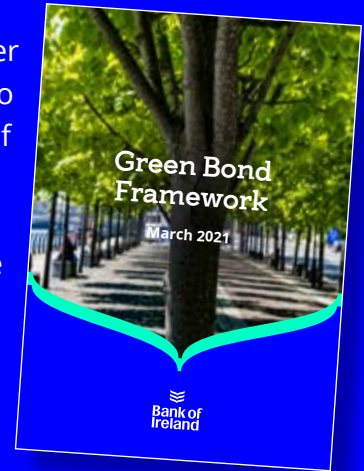
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# Introduction

Bank of Ireland launched its Green Bond Framework in September 2020<sup>1</sup> and, subject to the availability of data, outlined its intention to publish an Allocation Report and Impact Report within one year of issuing a Green Bond<sup>2</sup>.

In accordance with this Framework, Bank of Ireland will allocate the proceeds of the Green Bonds issued on a portfolio basis. Sustainalytics has provided a Second Party Opinion<sup>3</sup> confirming the alignment of the Framework with the four core components of the ICMA Green Bond Principles.



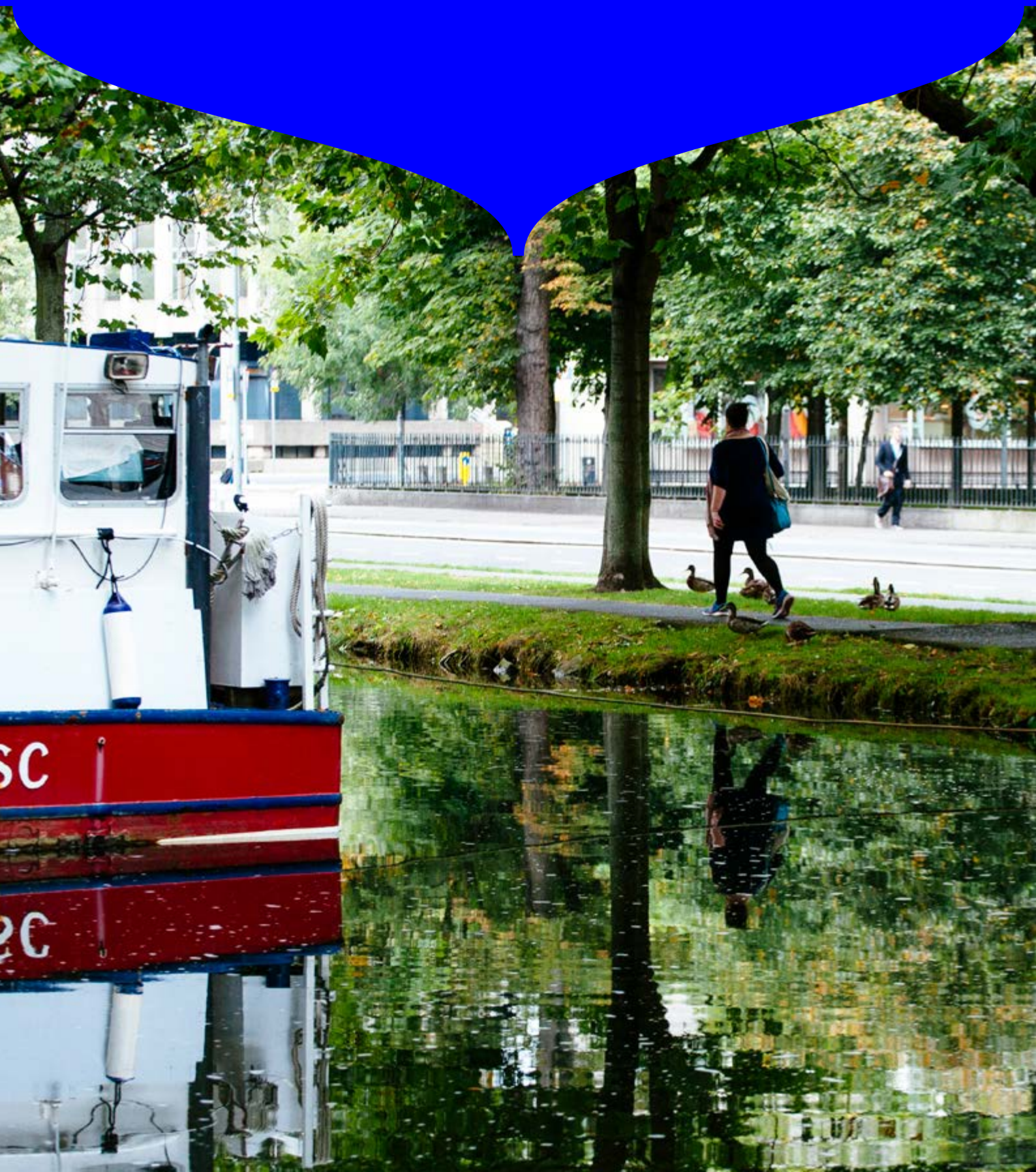
<sup>1</sup> Updated in March 2021  
<https://investorrelations.bankofireland.com/app/uploads/Green-Bond-Framework-March-2021.pdf>

<sup>2</sup> Inaugural Green Bond : €750m BOIG Senior Unsecured (0.375%, 6NC5, settling 10th March 2021)

<sup>3</sup> <https://investorrelations.bankofireland.com/app/uploads/Bank-of-Ireland-Green-Bond-Framework-Second-Party-Opinion-March-2021.pdf>



# 1. Supporting the Green transition



Combatting climate change is one of our greatest challenges as a global society. At Bank of Ireland, we understand the important role we can play in facilitating the transition to a resilient, low-carbon economy. We are committed to working with our customers, colleagues and communities to support their transition to a resilient, net zero carbon emissions country by 2050, in line with the Irish and UK governments' ambitions and targets. In 2021, Bank of Ireland launched our updated Responsible and Sustainable Business strategy 'Investing in Tomorrow'. Bank of Ireland's 5 point climate action plan is as follows:

1

**Set science based targets**

Set our portfolios and lending practices on a pathway aligned with the Paris Agreement and commit to setting science based targets across our portfolios and operations by the end of 2022.



2

**Provide sustainable financing**

Support our customers through our core financing and advisory capabilities to enable them to transition to Net Zero and develop and deploy low carbon technologies.



3

**Decarbonise our own operations**

Make our own operations Net Zero by 2030.



4

**Manage climate related risks**

Build our own resilience by embedding climate-related impacts in our decision making processes for our own operations, in lending and investment decisions and the advice we give our customers.



5

**Transparently report on our progress**

Commit to transparently report on the progress we are making towards our ambitions, and reporting in line with the recommendations of the Task Force on Climate-related Financial Disclosures.





## 2. Green Eligible Asset Portfolio (4 categories)



a

### Green Buildings & Energy Efficiency (Residential)



- Top 15% of residential properties in energy efficiency terms equivalent to a Building Energy Rating (BER) of B3 or better, and/or;
- Residential properties built in 2015 or later, and/or;
- New residential properties where the net primary energy demand is at least 20% lower than the primary energy demand resulting from the relevant NEZB requirements, and/or;
- Renovated residential property achieving a reduction of at least 30% in energy demand.

b

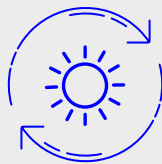
### Green Buildings & Energy Efficiency (Commercial)



- Commercial property in the Republic of Ireland, UK and US holding a BREEAM13 'Outstanding' or 'Excellent' or LEED14 'Platinum' or 'Gold' Certification, and/or;
- Commercial properties belonging to the top 15% in Ireland and UK, and/or;
- New commercial property where the net primary energy demand is at least 20% lower than the primary energy demand resulting from the relevant NZEB requirements, and/or;
- Renovated commercial property achieving a reduction of at least 30% in energy demand.

c

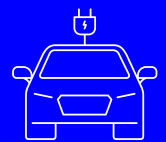
### Renewable Energy



- Renewable energy generation facilities including onshore and offshore wind, solar and geothermal.

d

### Clean Transportation



- Operation of Battery Electric Vehicles and electrically-powered public transport systems, and the infrastructure that supports clean transportation.



# 3. ICMA Harmonised<sup>4</sup> Green Bond Impact Report (31 December 2021)



<sup>4</sup> <https://www.icmagroup.org/assets/documents/Regulatory/Green-Bonds/Handbook-Harmonized-Framework-for-Impact-Reporting-December-2020-151220.pdf>



Environmental Resources Management Limited (ERM) have been appointed to calculate the positive climate impacts of Bank of Ireland's Green Eligible Asset Portfolio. The Green Eligible Asset Portfolio has been assessed on the following basis:

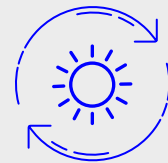
#### **Green Buildings (Residential and Commercial):**

- Estimated annual energy consumption and estimated annual avoided energy consumption (in MWh/year)
- Estimated annual emissions and estimated annual avoided emissions (in tonnes CO<sup>2</sup> equivalent/year)



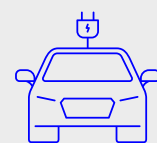
#### **Renewable Energy:**

- Total installed capacity (in MW)
- Estimated annual emissions and estimated annual avoided emissions (in tonnes CO<sup>2</sup> equivalent/year)

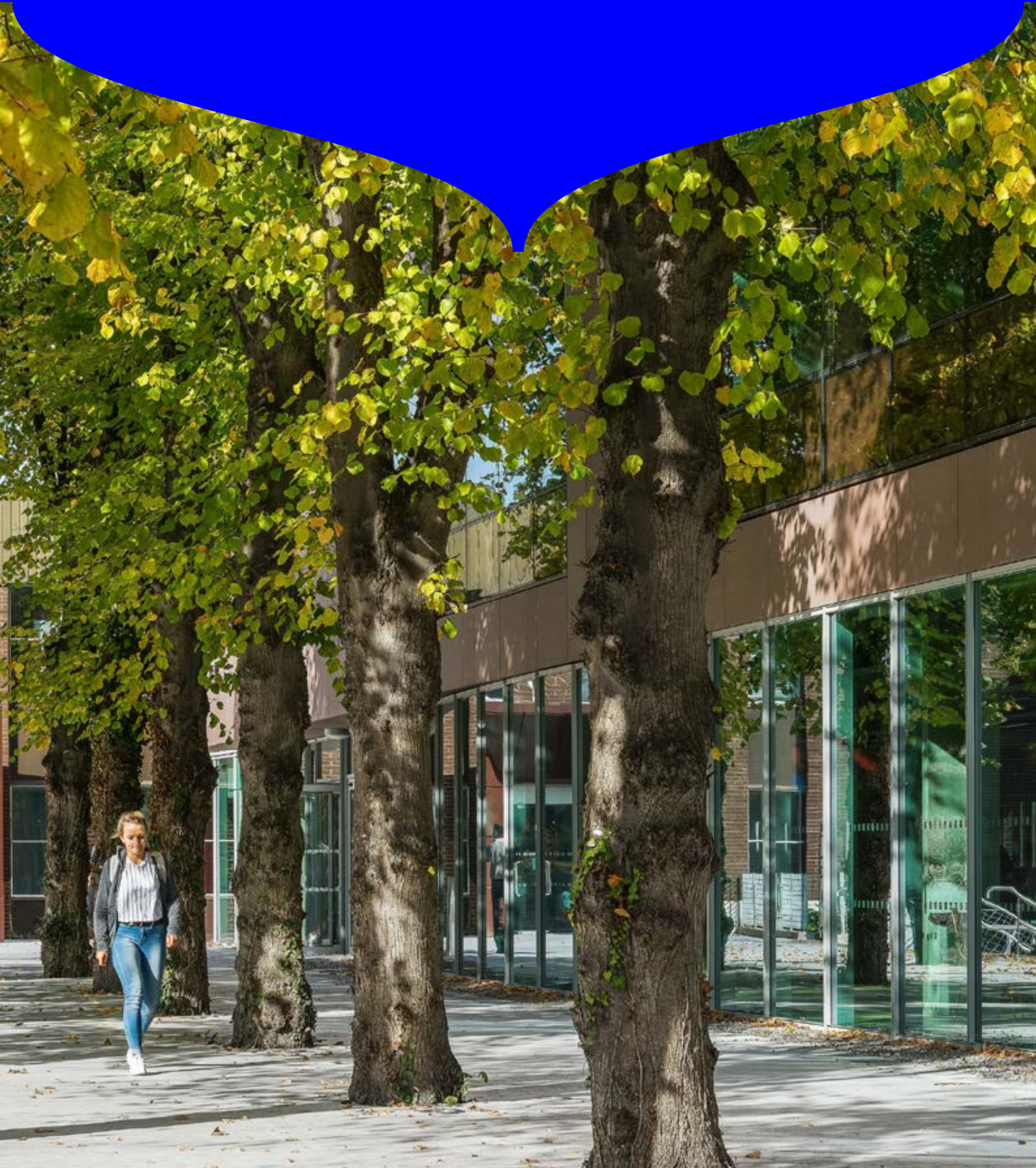


#### **Electric Vehicles:**

- Estimated annual emissions and estimated annual avoided emissions (in tonnes CO<sup>2</sup> equivalent/year)



# Green Bond Impact Table





## Operational Projects / Buildings

	Eligible category (operational projects / buildings)	Number of eligible projects / buildings	Eligible portfolio financing (EUR)	Share of total eligible portfolio financing	Estimated attributed energy consumption (MWh per annum)	Estimated attributed avoided energy consumption (MWh per annum)	Estimated attributed carbon emissions (tCO <sub>2</sub> e per annum)	Estimated attributed avoided carbon emissions (tCO <sub>2</sub> e per annum)	Total installed capacity (MW)
	e)		f)	g)	h)	i)	j)	k)	l)
a)	Green Buildings (Residential)	9,448	2,906,796,696	93%	57,956	123,860	11,589	30,356	-
b)	Green Buildings (Commercial)	3	106,111,346	3%	1,838	8,216	354	1,935	-
c)	Renewable Energy <sup>1</sup>	6 <sup>2</sup>	81,596,795	3%	-	-	295	39,260	186
d)	Clean Transportation	1,475	30,974,010	1%	-	-	547	1,166	-
	<b>Total</b>	<b>10,932</b>	<b>3,125,478,846</b>	<b>100%</b>	<b>59,794</b>	<b>132,076</b>	<b>12,785</b>	<b>72,717</b>	<b>186</b>

### Footnotes:

- a) Domestic Properties (Mortgages) are subject to emissions calculation and attribution guidance, hereon known as PCAF Guidance, stated by PCAF (2020). The Global GHG Accounting and Reporting Standard for the Financial Industry, First edition. Energy consumption and emissions rely on Building Energy Ratings and floor area compared to average Republic of Ireland domestic property performance (as sourced from the Sustainable Energy Authority Ireland (SEAI), October 2021).
- b) Commercial Properties consist of residential or office buildings and are subject to PCAF Standard attribution and avoided energy consumption and emissions calculation guidance. Energy consumption and emissions rely on Building Energy Ratings and floor area compared to average Republic of Ireland domestic property or office performance. Domestic property performance obtained from SEAI (see footnote a)). Office property performance obtained from Non-Domestic Building Energy Ratings 2021 issued by Central Statistics Office Ireland.
- c) Renewable Energy consists of windfarms and are subject to guidance from the International Financial Institutions Technical Working Group on Greenhouse Gas Accounting (IFI), namely GHG Accounting for Grid Connected Renewable Energy Projects 2019, and PCAF Standard attribution and avoided emissions calculation guidance.
- d) Electric Vehicles consist of Battery Electric Vehicles and are subject to PCAF Standard calculation guidance with vehicles travelling average annual distances identified by the Irish Government Economic and Evaluation Service report Transport Trends 2020 An Overview of Ireland's Transport Sector February 2021. The baseline emissions for comparison are calculated using vehicle type emissions factors of Internal Combustion Engine vehicles of equivalent vehicle type to the Battery Electric Vehicles travelling an equal distance,
- e) Eligible Category with reference to Bank of Ireland Green Bond Framework (March 2021) at: <https://investorrelations.bankofireland.com/app/uploads/Green-Bond-Framework-March-2021.pdf>
- f) Amount legally committed by Bank of Ireland to the portfolio or portfolio components eligible for Green Bond financing
- g) Share of total value of the portfolio financed by Bank of Ireland per Eligible Category
- h) i) j) k) Impact indicators involving attribution of energy, avoided energy, carbon emissions and avoided carbon emissions based on PCAF Standard methodology, taking in to account the value of Bank of Ireland's financing compared to the overall debt/equity value of the projects / buildings.
- l) Impact indicator Total Installed Capacity (MW)

<sup>1</sup> On the back of corrected debt/equity ratios, renewable energy estimated attributed carbon emissions and estimated attributed avoided carbon emissions figures were revised in March 2023

<sup>2</sup> Ireland only

## Projects / Buildings Under Construction in 2021

	Eligible category (under construction)	Number of eligible projects / buildings	Eligible portfolio financing (EUR)	Estimated attributed energy consumption (MWh per annum)	Estimated attributed avoided energy consumption (MWh per annum)	Estimated attributed carbon emissions (tCO <sub>2</sub> e per annum)	Estimated attributed avoided carbon emissions (tCO <sub>2</sub> e per annum)	Total capacity under construction (MW)
			p)	q)	r)	s)	t)	u)
m)	Green Buildings (Residential) under construction	18	438,339,993	17,482	10,001	3,574	2,466	-
n)	Green Buildings (Commercial) under construction	6	508,820,000	3,505	18,379	700	4,283	-
o)	Renewable Energy Under Construction <sup>1</sup>	1 <sup>2</sup>	54,826,544	-	-	203	26,943	76
	<b>Total</b>	<b>25</b>	<b>1,001,986,537</b>	<b>20,987</b>	<b>28,380</b>	<b>4,477</b>	<b>33,692</b>	<b>76</b>

### Footnotes:

m) Relating to Residential buildings not operational in 2021. Subject to PCAF Standard attribution and avoided energy consumption and emissions calculation guidance. Energy consumption and emissions rely on Building Energy Ratings and floor area compared to average Republic of Ireland domestic property performance (as sourced from the Sustainable Energy Authority Ireland (SEAI), October 2021). Social housing projects attributed based on Bank of Ireland's share of total financing.

n) Relating to Commercial buildings not operational in 2021. Subject to PCAF Standard attribution and avoided energy consumption and emissions calculation guidance. Energy consumption and emissions rely on Building Energy Ratings and floor area compared to average Irish office property performance obtained from Non-Domestic Building Energy Ratings 2021 issued by Central Statistics Office Ireland.

o) Relating to Windfarms not operational in 2021 and are subject to IFI and PCAF Standard attribution and avoided emissions calculation guidance

p) Amount legally committed by the issuer to the portfolio or portfolio components eligible for Green Bond Financing on projects not operational during 2021.

q) r) s) t) Impact indicators involving attribution of energy, avoided energy, carbon emissions and avoided carbon emissions based on PCAF Standard methodology, taking in to account the value of Bank of Ireland's financing compared to the overall debt/equity value of the projects / buildings.

u) Impact Indicator Total Capacity under Construction (MW).

<sup>1</sup> On the back of corrected debt/equity ratios, renewable energy estimated attributed carbon emissions and estimated attributed avoided carbon emissions figures were revised in March 2023

<sup>2</sup> Ireland only



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