

Financial Year 2022



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Introduction

ING's Sustainability Direction

There is no denying that one of the biggest challenges for society is sustainability, in all its forms. Climate change threatens both the planet and its people. People may struggle with inequality, poor financial health, and even a lack of basic human rights.

As the challenges increase, there's a growing sense of urgency that governments and businesses should step in and help tackle them. The world has changed, and banking needs to change with it.

ING aims to put sustainability at the heart of what we do, defining new ways of doing business where planet and people are just as important as economic growth. It's about making progress together, step by step.

ING wants to be a pioneer in defining new ways to do business. We want to be a banking leader in building a sustainable future for our company, our customers, society and the environment. How?

- We focus on <u>climate action</u>:
 - We lead by example by striving for net zero in <u>our own</u> <u>operations</u>.
 - We play our part in the social and low-carbon transformation that's necessary to achieve a sustainable future, <u>steering the most carbon-intensive</u> <u>parts of our portfolio</u> towards reaching net zero by 2050.
- We collaborate: working with clients to achieve their own sustainability goals, increasing our impact through partnerships and coalition-building.
- We manage the most relevant <u>environmental and</u> <u>social risks</u> while fostering the protection of <u>biodiversity</u> and <u>human rights</u> across all of our relationships.
- We're working to advance <u>financial health</u> and inclusion for our customers and <u>communities</u>.
- And we empower our employees to contribute to it all.

ING finances today's society, which means we do also finance things that aren't green. We want to help clients transition to a low carbon economy. It's about making progress together, step-by-step. See

<u>www.ing.com/climate</u> for more on our climate strategy in action.

ING's Green Bond Framework

To support our sustainability strategy, and to meet green funding needs; ING issues green bonds, supported by our <u>Green Bond Framework</u> that aligns with the International Capital Market Association's (ICMA) Green Bond Principles (GBP). Under this framework, ING Group and its subsidiaries can issue any financial instrument to finance and refinance assets and projects which contribute to the UN's Sustainable Development Goals and our own sustainability strategy.



ING's Green Bond Impact Report

ING publishes its impact report of the Eligible Green Loan portfolio annually.

For Renewable Energy, these impact metrices are reported:

- Total Installation Capacity;
- Estimated annual avoided emissions in tonnes of CO₂ equivalent.

For Green Buildings, these impact metrices are reported:

- Estimated annual energy consumption or energy saving in kWh/m²;
- Estimated annual reduced and/or avoided emissions in tons of CO₂ equivalent.

The impact calculations has been assessed by external consultants. For Green Buildings in the Netherlands, CFP calculated CO_2 emissions and energy consumption of 80,449 residential buildings and 12,091 commercial buildings. For German Residential buildings, Drees & Sommer has calculated the relevant metrices. Lastly, Guidehouse conducted the analysis for the 215 Renewable Energy Projects. All the impact analysis conducted by the consultants are consolidated in this report.

Our Green Bond Impact Report 2022 reflects the impact reporting requirements per ING's Green Bond Framework 2022. The Green Bond Framework 2022 has been externally assessed by ISS ESG. In the <u>Second Party</u> <u>Opinion (SPO)</u>, alignment with the Green Bond Principles (GBP) has been confirmed as well as additional reviews.

ING Group Green Bond Impact Report

31 December 2022

Eligible project category (r)	Number of loans/ addresses	Eligible portfolio (€ mln) (s)	Share of total ING DiBa Green Covered Bond Financing ¹ (t)	Share of total Green Senior Bond & Deposit Financing ¹ (u)	Eligibility for Green Bonds (v)	Building area m² (w)	Total installed capacity of Renewable Energy in MW (x)	Pro-rata installed capacity of Renewable Energy in MW (x)	GHG emissions avoided in tons of CO ₂ /year (X)
Green Residential Build	dings								
ING Bank NV	80,449	17,361	0.00%	62.81%	100%	12,132,621	n/a	n/a	100,337
ING DiBa	25,955	4,062	100.00%	6.55%	100%	3,332,990	n/a	n/a	63,198
Green Commercial Bui	ldings								
ING Bank NV	12,091	2,928	0.00%	10.58%	100%	3,389,825	n/a	n/a	43,205
Renewable Energy	215	5,569	0.00%	20.15%	100%	n/a	43,865	5,831	4,740,981
Total	118,710	29,920		100%	100%	18,855,436	43,865	5,831	4,947,721

Impact per € mln calculations		
CB ING DiBa	p/€ mln impact tons of CO ₂ /year	15.56
ING Group Senior	p/€ mln impact tons of CO ₂ /year	177.55

Portfolio based green bond report in accordance with the ICMA Harmonized Framework for Impact Reporting (version June 2019)

	5 1 1 5
(r)	Eligible category
(s)	Signed amount represents the amount legally committed by the issuer for the portfolio or portfolio components eligible for Green Bond financing
(t)	This is the share of the total portfolio cost that is financed by the issuer for green covered bonds
(u)	This is the share of the total portfolio cost that is financed by the issuer for green senior bonds
(v)	This is the share of the total portfolio costs that is Green Bond eligible

(w) This is the building area in m²

(x) Impact indicators

- Estimated reduced energy (in GWh/year)
- Direct and indirect emissions avoided in tons of CO2/year (clean transportation only)
- Estimated annual reduced emissions in tons of CO2/year
- Expected power production (in GWh/year)
- Green covered bonds are allocated solely to green residential buildings situated within the covered bond entity (ING DiBa) and green senior bonds are allocated to all Use of Proceeds categories (minus any green residential buildings already allocated to green covered bonds). Green Covered Bonds will be allocated to assets within the covered bond cover pool. For Senior Green Bonds, ING may allocate towards Eligible Green Loans situated within its subsidiaries as per the guidance laid out in the Green Bond Principles 2021 regarding pledged assets (https://www.icmagroup.org/assets/documents/Sustainable-finance/2021-updates/The-GBP-Guidance-Handbook-June-2021-140621.pdf).



ING

Impact assessment ING Green Residential Buildings Portfolio the Netherlands

		sessment ING l Buildings			
Subject: calculation		CO ₂ -emission			
Date: April 2023					
Status: Final Draft					

As requested by ING, CFP Green Buildings has been asked to compare the greenhouse gas emissions¹ of a specific, energy-efficient group of residential real estate (in this document indicated as ING green residential building portfolio) to that of a comparable group of real estate with an average energy efficiency (indicated as "Reference" or "Reference Group"²). The objective of this analysis is to demonstrate that the selected buildings belong to the top most sustainable buildings in The Netherlands. This document outlines the results of this analysis.

The Eligible Green Building Portfolio

Assets in the ING Green Residential Portfolio that are built before 2021 should have an energy label A or belong to the top 15% of the national or regional building stock expressed as operational Primary Energy Demand, as required by the EU taxonomy. Moreover, buildings that are built after 2021 and meet the requirements for a PED lower than 10% threshold set for a Nearly Zero Energy Building (NZEB) are also included in the green residential portfolio.

 1 Greenhouse gas emissions are calculated in CO2-equivalent, which will be referred to as CO2 throughout this document. 2 The Reference Group is an anonymized portfolio from several clients from CFP Green Buildings, which contains about 140.000 comparable buildings.

The building year is used as a criterion to determine the top 15%. Over time, the Dutch Building Regulations require higher energy efficiency and improved sustainability for new buildings. Therefore, the year of construction is used as a criterion to define the as ING green residential building portfolio. 12.36% of the total Dutch housing stock is built between 2006 and 2020.³ Hence, the selected year of construction to determine the top 15% is 2006. This way, the buildings in the ING green residential building portfolio belong to the top 15% of most energy-efficient buildings of the Dutch real estate market. Additionally, buildings built before 2006 with an energy label A deliver a substantial contribution to climate change mitigation, according to the EU Taxonomy.

Methodology

Within this study the CO₂-emissions of 80,449 residential objects, as selected by ING, were determined using the calculated real energy consumption of these objects. This selection is based on the selection criteria from the Green Bond Framework.

The energy usage is based on the algorithms and benchmarks from the expert system of CFP Green Buildings. This is the largest building database in The Netherlands with actual data on energy consumption and building characteristics. These algorithms and benchmarks are the same as those used in the online tool www.ingrefduurzaam.nl. In this study, the calculated real energy consumption

³ All residential buildings built since 2006 either have a registered energy label A or would have gotten a provisional energy label A. Provisional energy labels were calculated based on building characteristics.



of Dutch real estate (the Reference) was determined using this methodology. The CO₂emissions were calculated with the Dutch market standard conversion factors, derived from the Green Deal CO₂-Emissionfactors.The applied factors are illustrated in table 1⁴.

Applied GHG emission factors⁵

Natural gas	1.884	kg CO₂e /m³
Electricity	0.337	kg CO₂e /kWh

Table 1: Dutch CO2-emission factors

Table 2 shows the distribution of the assets in the ING green residential building portfolio among the three different criteria:

- 1. Buildings with an Energy Label A (built before 2006).
- 2. The top 15% of the national or regional stock, expressed as primary energy demand.
- 3. Buildings built since 2021 that have a PED that is 10% lower than the NZEB requirements.

Criteria	Objects
Buildings built before 2006	24,865
with registered A labels	
Building built between 2006-	55,012
2020 (top 15%	
Buildings built since 2021	572
with PED of NZEB -10%	

Table 2: Assets in the Green Building Portfolio

Energy consumption

Table 3 shows the calculated real energy consumption of the entire ING Green Residential Portfolio. The calculated real energy consumption for electricity is 319 million kWh each year and 104 million m³ natural gas each year.

Electricity (kWh)	Natural gas(m ³)
319,026,532	104,615,842

Table 3: Energy consumption ING Green Residential Portfolio

CO₂-emission

Table 4 shows the CO₂-emissions of the ING Green Residential Portfolio and the reference group based on calculated real energy consumption. The total CO₂-emission of the ING Green Residential Portfolio is 325,008 tonnes CO₂ per year. The Reference CO₂emission is 425,345 tonnes of CO₂ per year. Resulting in a reduction of 100,337 tonnes of CO₂ per year.

Emission

ING Green	Emission	Emission	
portfolio	reference	reduction	
(tonnes CO ₂)	(tonnes CO ₂)	(tonnes CO ₂)	
325,008	425,345	100,337	

Table 4: Total CO₂-emission ING Green Residential Portfolio compared to Reference

Table 7 gives a summarized overview of the reduced CO₂-emissions in relation to the reference group for the three different criteria building groups with registered and provisional A labels.

Approximately 31% (in square meters) of the portfolio consists of A label buildings built before 2006. The CO₂-emissions of the ING Green Residential Portfolio for A label buildings built before 2006 is 102,514 tonnes of CO₂ per year. The reference CO₂-emission is 132,523 CO₂ per year.

Approximately 68% of the portfolio consists of buildings with a registered or provisional A

 $^{\rm 5}$ Source: <u>https://www.co2emissiefactoren.nl</u> using WTW emissions for electricity (unknown) in kg/CO_2 in kWh.



label built between 2006 and 2020. The CO_2 emissions of these buildings is 220,405 tonnes of CO_2 per year while the reference CO_2 emission for this group is 290,093 tonnes of CO_2 per year.

Approximately 1% of the portfolio consists of buildings that are eligible due to meeting the requirements for a PED lower than 10% threshold set for a Nearly Zero Energy Building (NZEB). The total CO₂-emissions of the ING Green Residential Portfolio for these new buildings 2,090 tonnes of CO₂ per year. The reference CO₂-emission is 2,729 tonnes of CO₂ per year. The reduction in CO₂-emissions for the three building groups can be found in table 7 below.

	#	m²	Emission ING green portfolio (tonnes CO ₂)	Emission reference (tonnes CO ₂)	Emission reduction (tonnes CO ₂)
Buildings A label <2006	24865	3,780,107	102,514	132,523	30,009
Buildings A label 2006-2020	55,012	8,274,665	220,405	290,093	69,689
NZEB - 10% >2021	572	77,849	2,090	2,729	640
Total	80,449	12,132,621	325,008	425,345	100,337

Table 7: Summarized overview of the reduced CO2-emissions compared to the reference

Conclusion

The following conclusions are drawn from this study:

- Based on the calculated real energy consumption, the ING Green Residential Portfolio has a CO₂emission that is 100,337 tonnes per year lower than the reference, which is a difference of 23.6%.
- All buildings in the ING Green Residential Buildings Portfolio deliver a substantial contribution to climate change mitigation following the EU Taxonomy definition, either by having an EPC class A rating or belonging to the top 15% of the national building stock expressed as operational PED for buildings built before 2021, and by meeting the requirements for a PED lower than 10% threshold set for a Nearly Zero Energy Building (NZEB) for buildings built after 2021.





Impact assessment ING Green Commercial Buildings Portfolio the Netherlands

	Commerci	ssessment ING ial Buildings			
Subject: calculati		CO ₂ -emission			
Date: April 2023					
Status: Final Draft					

As requested by ING, CFP Green Buildings has been asked to compare the greenhouse gas emissions¹ of a specific, energy-efficient group of Commercial real estate (in this document indicated as ING green commercial building portfolio²) to that of a comparable group of real estate with an average energy efficiency (indicated as "Reference" or "Reference Group"³). The objective of this analysis is to demonstrate that the selected buildings belong to the top most sustainable buildings in The Netherlands. This document outlines the results of this analysis.

The Eligible Green Building Portfolio

A total of 12,091 assets have been selected as eligible for the ING green commercial building portfolio. Assets In the ING green commercial building portfolio either have a registered energy label A or belong to the top 15% of the national or regional building stock expressed as operational Primary Energy Demand, as required by the EU taxonomy. A relatively small

portion of residential buildings were included in the portfolio based on the top 15% criteria⁴. For these assets, the building year was used as a criterion for the top 15% due to the fact that over time, the Dutch Building Regulations require higher energy efficiency and improved sustainability for new buildings. 12.36% of the total Dutch housing stock is built between 2006 and 2020.⁵ Therefore, the selected year of construction to determine the top 15% is 2006.

Methodology

Within this study, the CO₂-emissions of 12,091 objects selected by ING, were determined using the calculated real energy consumption of these objects. This selection is based on the eligibility criteria under the Green Bond Framework.

The energy usage is based on the algorithms and benchmarks from the expert system of CFP Green Buildings. This is the largest building database in The Netherlands with actual data on energy consumption and building characteristics. These algorithms and benchmarks are the same as those used in the online tool www.ingrefduurzaam.nl. In this study, the calculated real energy consumption of Dutch real estate (the Reference) was determined using this methodology. The CO₂emissions were calculated with the Dutch market standard conversion factors, derived

¹ Greenhouse gas emissions are calculated in CO₂-equivalent, which will be referred ¹ Greenhouse gase missions are calculated in CO₂-equivalent, which will be referred to as CO₂ throughout this document.
² When referring to the Eligible Asset Portfolio in this document, we refer to buildings that are owned by professional real estate investors including residential objects that are all intended to be rented out (commercially).
³ The Reference Group is an anonymized portfolio from several clients from CFP Green Buildings, which contains about 140.000 comparable buildings.

A total of 230 (1.8% of total commercial portfolio) residential buildings with a ⁵ All cost of L20 by the contribution of the eligible portfolio ⁵ All residential buildings built since 2006 either have a registered energy label A or would have gotten a provisional energy label A. Provisional energy labels were calculated based on building characteristics.



from the Green Deal CO₂-Emissionfactors.The applied factors are illustrated in table 1⁶.

Applied GHG emission factors⁷

Natural gas	1.884	kg CO2e /m ³			
Electricity	0.337	kg CO₂e /kWh			
Table 1: Dutch CO2-emission factors					

Group Composition

The group composition of the 12,091 objects are shown in table 2. Retail buildings have the largest footprint with 34% of total square meters. Residential buildings account for 21% of the portfolio. About 53% of the portfolio are new buildings⁸, 47% is refurbished to obtain an energy label A.

	#	m²	Refurbished	New
Industry	418	413,954	336	82
Office	726	826,453	552	174
Retail	2,621	1,150,582	1,910	711
Residential	8,083	711,172	2,761	5,322
Other	243	287,664	138	105
Total	12,091	3,389,825	5,697	6,394

Table 2: Group composition ING Green Buildings

Energy consumption

Table 2 shows the calculated real energy consumption of the ING green commercial building portfolio. The calculated real energy consumption for electricity is around 307.8 million kWh each year and approximately 23.5 million m³ for natural gas each year.

Electricity (kWh)	Natural gas(m ³)		
307,868,390	23,475,156		
Table 3: Energy consumption	ING green commercial		

building portfolio

CO₂-emission

Table 4 shows the total CO_2 -emissions of the ING Green Commercial Portfolio and the reference group based on calculated real energy consumption. The total CO_2 -emission of the ING green commercial building portfolio is 162,642 tonnes of CO_2 per year. The Reference CO_2 -emission is 205,847 tonnes of CO_2 per year. This is a reduced amount of 43,205 tonnes of CO_2 per year.

Emission

ING Green	Emission	Emission
portfolio	reference	reduction
(tonnes CO ₂)	(tonnes CO ₂)	(tonnes CO ₂)
162,642	205,847	43,205

Table 4: CO2-emission ING green commercialbuilding portfolio compared to Reference

Table 5 shows an overview of the calculated CO₂-emissions reduction for the refurbished buildings and new buildings, compared to reference groups.

Approximately 47% (in square meters) of the portfolio consists of refurbished buildings. The CO₂-emissions of the ING green commercial building portfolio for refurbished buildings is 110,672 tonnes of CO₂ per year. The Reference CO₂-emission is 140,763 tonnes of CO₂ per year. For refurbished buildings, this is a reduced amount of 30,091 tonnes of CO₂ per year.

Approximately 53% of the portfolio consists of non-refurbished buildings or new buildings. The total CO₂-emission of the ING green commercial building portfolio for new buildings is 51,970 tonnes CO₂ per year. The Reference CO₂-emission is 65,084 tonnes of CO₂ per year. For new buildings, this is a reduced amount of 13,114 tonnes of CO₂ per year.

⁶ Source: <u>https://www.co2emissiefactoren.nl</u> using WTW emissions for natural gas in kg/CO₂ per m³.
⁷ Source: <u>https://www.co2emissiefactoren.nl</u> using WTW emissions for electricity (unknown) in ka/CO₄ in kWh.

⁸ A building is categorised as new when the construction year of the building is 2006 or later.



	#	m²	Emission ING green portfolio (tonnes CO ₂)	Emission reference (tonnes CO ₂)	Emission reduction (tonnes CO ₂)
Refurbished buildings	5,697	1,251,967	110,672	140,763	30,091
New Buildings	6,394	2,137,858	51,970	65,084	13,114
Total	12,091	3,389,825	162,642	205,847	43,205

Table 5: CO2-emission ING green commercial building portfolio compared to reference group

Conclusion

The following conclusions are drawn from this study:

- Based on the calculated real energy consumption, the ING green commercial building portfolio has a CO₂-emission that is 43,205 tonnes per year lower than the reference, which is a difference of 21%.
- Based on the registered A energy labels and the top 15%, buildings in the ING green commercial building portfolio belong to the top most energy-efficient buildings of the Dutch real estate market.



///// ING-DIBA AG IMPACT REPORTING

RESIDENTIAL BUILDINGS IN GERMANY

12.04.2023

Claudio Tschätsch

Lavinia Namur



/////

GREEN BOND IMPACT REPORT ING-DIBA AG

German residential real estate portfolio - Harmonized Framework

Low Carbon Buildings	Date of Issuance	Туре	Signed Amount ^a	Share of Total Portfolio Financing ^b	Eligibility for	portfolio		Annual CO2 emissions avoidance ^f
Unit	[dd.mm.yyyy]	[-]	[EUR]	[%]	[%]	[years]	[MWh/year]	[tCO2/year]
ING-DiBa AG Green Bond	31.12.2022	Low Carbon Building	4.061.560.984	100,0	100	9,3	210.365	63.198
Einfamilienhaus (freistehend)	-		2.156.624.612	53,1	100	10,4	127.561	36.652
Zweifamilienhaus			73.089.601	1,8	100	7,4	5.083	1.411
Reihenhaus	31.12.2022	Low Carbon Building	336.096.309	8,3	100	10,9	18.479	5.601
Eigentumswohnung			983.658.704	24,2	100	7,0	33.037	11.700
Doppelhaushälfte			512.091.758	12,6	100	7,5	26.205	7.834

^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.

² Final energy savings calculated using the difference between the top 15% and the national building stock benchmarks

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

GREEN BOND IMPACT REPORT ING-DIBA AG German residential real estate portfolio - Impact Reporting









40.000







German Green Bond Portfolio:

- Buildings: 25 955
- Exposure: 4 061 560 984 EUR (36%)
- Energy savings: 210 365 MWh/year
- Carbon emissions savings: 63 198 tCO₂/year

DREES &

SOMMER











ING Renewable Energy Portfolio

Climate Impact Assessment

Portfolio as of December 31, 2022

ING ಖ

April 11, 2023

ING RENEWABLE ENERGY PORTFOLIO CLIMATE IMPACTS – PORTFOLIO AS OF 31 DECEMBER 2022

By the Numbers



Total ING portfolio (M€)¹

5,569



Number of projects¹ 215



Annual avoided emissions (megatons $CO_2eq)^2$ **4**.7

Average avoided emissions per Euro invested (kgCO₂eq/€)²

Avoided emissions² are equal to...



Passenger flights London to New York³ 3.3 million

Reduction in global beef consumption⁴ 48 kton

Key Findings

»

- ING is financing 5,831 MW of renewable power projects¹
- The annual avoided emissions for the operational portfolio was 4.7 megatons CO₂eq, or an average 1.1 kgCO₂eq per euro invested²

Avoided Emissions by Technology²



Total avoided emissions (kton CO₂eq) (number of operational projects in parentheses)

Wind	2,599 (95)
Solar	2,142 (73)

There are an additional 14 wind projects and 33 solar projects under construction.

Avoided Emissions in megatons CO_2eq (Bars) and Average Avoided Emissions per Euro Invested (Dots) by Project Country²



Source: ING Data and Guidehouse Analysis

¹ Includes projects that are operational and those under construction.

² All calculations related to avoided emissions are for operational projects only. Projects under construction are excluded.

³ Individual one-way passenger flights from London to New York.

⁴ The reduction in global beef consumption is calculated using an updated source from last year.



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ING RENEWABLE ENERGY PORTFOLIO CLIMATE IMPACTS - METHODOLOGY

Introduction

ING Bank contributes to sustainability by financing projects that accelerate its clients' transition to a low-carbon economy. By financing projects that reduce the need for carbon intensive technologies on the electricity grid, ING can contribute to a low-carbon economy and help its clients' contribution as well. Such renewable energy projects diversify the grid and reduce the need for electricity generated by fossil fuel technologies (such as natural gas, coal or oil).

Guidehouse was appointed to calculate the positive climate impacts of ING's renewable energy portfolio. The positive climate impacts are expressed by the avoided greenhouse gas (GHG) emissions from solar and wind projects financed through ING.

Methodology

The method used to calculate the avoided GHG emissions for ING's portfolio is based on PCAF's Global GHG Accounting and Reporting Standard for the Financial Industry¹ and the IFI Approach to GHG Accounting for Renewable Energy Projects.²

Guidehouse measured the climate impacts from ING's renewable energy portfolio by calculating the avoided GHG emissions from loans and investments in projects financed through ING. The avoided GHG emissions were calculated by:

- Taking the estimated or actual electricity production of the project, measured in MWh, multiplied by a country specific emission factor.
- The country specific emission factor is the operating margin (OM). The OM represents the marginal generating capacity in the existing dispatch hierarchy that will most likely be displaced by the project. The OM is used in the methodology because the assessment is backward looking in the sense that it measures the avoided emissions over the previous financial year.
- In cases where the estimated electricity production was not provided by ING, production is calculated by multiplying (1) the annual load hours of wind or solar by (2) the project capacity (MW).
- In most cases, ING does not finance the entire project, therefore the avoided emissions are adjusted by the share (%) that is financed by ING. This attribution share is calculated by taking (1) the amount currently outstanding on the deal and dividing by (2) the original deal size amount³.
- Projects under construction are excluded from annual avoided emissions calculations
- The calculations are valid based on the portfolio as of December 31st, 2022.



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¹ <u>https://carbonaccountingfinancials.com/files/downloads/PCAF-Global-GHG-Standard.pdf</u>

² IFITWG_Methodological_approach_to_common_dataset.pdf (unfccc.int)

³ Equity was not available for projects; attribution was calculated using debt values only