




# BNP PARIBAS GREEN BOND

## 2021 GREEN BOND REPORTING & METHODOLOGY NOTES

May 2022

**Global Capital Bond Awards 2021**



Most Impressive Investment Bank for:

- Overall Green/SRI Capital Markets
- Corporate Green/SRI Capital Markets
- CEEMEA Green/SRI Capital Markets

**IFR Awards 2020**




Best Bank for Sustainable Finance  
ESG House Asia

**Environmental Finance – Green Bond Award 2021**



Loan structurer / arranger / coordinator of the year  
Lead manager of the Year, social bonds - bank  
Lead manager of the Year, sustainability bonds - sovereigns

**Environmental Finance – Green Bond Award 2020**



Lead manager of the year, green bonds – corporate

**Euromoney 2021**




World's Best Bank in Sustainable Finance  
World's best bank for ESG data and technology  
Western Europe's best bank for Sustainable Finance

**Euromoney 2020**



World's Best Bank for Financial Inclusion  
Western Europe's Best Bank for Corporate Responsibility

**The Banker Investment Bank Awards 2020**



Investment Bank of the Year for Sustainability-Linked Loans  
Investment Bank of the year for Sustainable FIG financing



# BNP PARIBAS

## The bank for a changing world

# 1. LATEST UPDATES ON BNP PARIBAS CSR POLICY

2. OVERVIEW OF THE SINGLE POOL OF ASSETS (2021)
3. BNP PARIBAS GREEN BOND: METHODOLOGY NOTES
4. EXTERNAL REVIEW



# Disclaimer

*This document and any other materials in relation to the securities described herein is only being distributed to, and is only directed at (i) persons in the United Kingdom who have professional experience in matters relating to investments who fall within the definition of “investment professionals” within Article 19(5) of the Financial Services and Markets Act 2000 (Financial Promotion) Order 2005, as amended (the “Order”) or are high net worth entities falling within Article 49(2)(a) to (d) of the Order, or (ii) are qualified investors (investisseurs qualifiés) as defined in Article 2(e) of Regulation (EU) 2017/1129 of the European Parliament and of the council of 14 June 2017 (the “Qualified Investors”) and (iii) persons to whom the distribution may otherwise lawfully be made (all such persons together being referred to as “Relevant Persons”). In France, the offer of the securities referred to herein will be made through a placement to Qualified Investors only pursuant to Article L. 411-2, 1° of the French Code monétaire et financier. The offer will not be made to retail investors. The following presentation or its distribution may under no circumstance constitute an offer within the meaning of article 1114 of the French Code Civil. Any investment or investment activity to which this document relates is available only to Relevant Persons and will be engaged in only with Relevant Persons. This document must not be acted or relied on by any persons who are not Relevant Persons.*

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*This presentation must be read in conjunction with the Base Prospectus dated July 2, 2021 as so supplemented (the “EMTN Base Prospectus”). Full information on BNP Paribas and the offer of the Notes is available in the EMTN Base Prospectus and on <https://invest.bnpparibas.com/>*

# BNP Paribas company purpose

- BNP Paribas has released a formal “company purpose”
- Elaborated under guidance from the BNP Paribas Executive Committee
- Approved by the Board of Directors
- Based on BNP Paribas’ Shared convictions, the Group Code of Conduct and the Engagement Manifesto
- Communicated to all employees in January 2020 and available externally

*“BNP Paribas’ mission is to contribute to **responsible and sustainable growth** by financing the economy and advising clients according to the highest ethical standards”*

- The Group offers secure, sound and innovative financial solutions to individuals, professional clients, corporates and institutional investors while striving to **address the fundamental challenges of today with regard to the environment, local development and social inclusion**
- BNP Paribas employees aim to **deliver services that have purpose and relevance for clients and the world around them**
- The Group innovates in order to be a **leader in sustainable finance**
- BNP Paribas is developing the tools to **measure our environmental and social impact**

# A committed bank: 4 pillars and 12 commitments



## CSR is fully part of our corporate culture and strategy

- Executive Committee defines the CSR strategy
- Board of Directors approves the CSR strategy and the annual reporting
  - “Corporate Governance, Ethics, Nominations and CSR Committee” is in charge of ethics, conduct and CSR since the Annual General Meeting of May 2016

# Our key CSR performance indicators

	CSR metrics	2018 Reference	2019 Results	2020 Results	2021 Results	2021 targets
Economic responsibility	1 Share of loans to companies supporting the energy transition and sectors directly contributing to the SDGs	€ 168bn	€ 180bn	€ 188bn	€ 244bn	Average of € 10bn increase per year over the period
	2 Percentage of employees trained in ethics and conduct issues	96,2 %	95,4 %	97 %	98,7 %	Maintaining > 95 % per year
Social responsibility	3 Percentage of women among the SMP population (Senior Management Position)	28 %	29 %	31 %	32 %	> 31 %
	4 Percentage of entities with more than 1,000 employees having made a commitment to disability	91 %	94 %	100 %	100 %	100 %
	5 Proportion of employees who completed at least two training courses during the previous 12 months	91,8 %	94,8 %	90,2 %	98,3 %	Maintaining > 90 %
Civic responsibility	6 Number of solidarity hours performed by the employees	305,000 hours	> 450,000 hours	> 510,000 hours	509,000 hours	1 million hours
	7 Support (financing, investments on behalf of the bank and third parties) to associations and Social and Solidarity Economy enterprises	€ 5,6bn	€ 6,2bn	€ 6,3bn	€ 6,8 bn	€ 6,3bn
Environmental responsibility	8 Financing for renewable energies	€ 15,4bn	€ 15,9bn	€ 17,8bn	€ 18,6bn	€ 18bn
	9 Greenhouse gas emissions in tons of CO2 equivalent (tCO2eq) / full-time employees (buildings kWh, including IT, + business trips)	2,45 tCO2eq / FTE	2,32 tCO2eq / FTE	1,80 tCO2eq / FTE	1,50 tCO2eq / FTE	2,31 tCO2eq / FTE

➤ Integration of CSR criteria in the calculation of annual variable compensation of the Executive Corporate Officers and of deferred variable compensation plan of > 7,000 Group key employees



# 2022-2025 CSR Dashboard

	CSR metrics	2025 Targets
Economic responsibility	1 Amount of sustainable loans	€ 150 bn
	2 Amount of sustainable bonds	€ 200 bn
	3 Amount of sustainable investment and savings (assets under management of article 8 & 9 SFDR funds)	€ 300 bn
Social responsibility	4 Share of women among the SMP population (Senior Management Position)	40 %
	5 Number of solidarity hours performed by the employees (#1MillionHours2Help)	1 million hours (on 2 rolling years)
	6 Share of employees who completed at least four training courses during the previous 12 months	90 %
Civic responsibility	7 Number of beneficiaries of products & services promoting financial inclusion	6 million beneficiaries
Environmental responsibility	8 Amount of the support enabling our clients to transition to a low-carbon economy	€ 200 bn
	9 Amount of financing to companies contributing to protect terrestrial and marine biodiversity	€ 4 bn
	10 Greenhouse gas emissions in tons of CO <sub>2</sub> equivalent (tCO <sub>2</sub> eq) / full-time employees (buildings kWh, including IT, + business trips)	1,85 tCO <sub>2</sub> eq / FTE



# Positive impact at the heart of supporting the Group's clients



The Bank's support for **impact companies** including social enterprises (financing, investments on its own behalf and on behalf of third parties) worldwide has exceeded **€ 2,3bn**

Signature of the **11<sup>th</sup> social impact contract** supported by BNP Paribas, a project with **Médecins du Monde**

The Group won the AFD (**Agence Française de Développement**) selection process as the **sole investor** of the **first Development Impact Bond** (DIB) sponsored by the French government to deploy with the NGO Care a programme to **improve women's social inclusion and health in Ethiopia**

**€ 450m are allocated** to investments on the behalf of the Group in favour of **ecological transition, natural capital, local development** and **social impact**

- **€ 250m** in innovation
- **€ 200m** of impact investments

BNP Paribas, **1<sup>st</sup> french bank** and 5<sup>th</sup> european bank of the **Global 100 Most Sustainable Corporations 2022** (ranked 76)



The Group has developed **extra-financial risk management tools** through:

- the deployment of a tool for analysing the ESG profiles of companies (**ESG Assessment**) which will be used systematically in the credit granting process
- the implementation of the first **climate stress tests**.



# Mobilized and engaged employees



The Group participates in **pioneering initiatives** to ensure the inclusion of all employees, especially a **pilot on the diversity of social and ethnocultural backgrounds** but also a **barometer of ordinary sexism within companies**



**84%** of respondents to the Joint **Pulse Survey** “Conduct” and “Diversity and Inclusion” support the Group’s actions in terms of Diversity and Inclusion

BNP Paribas sets itself ambitious goals to reach professional equality, in particular by acting for the **feminization of governing bodies** : target of a **40% share of women in the SMP population by 2025**

Reinforced prevention measures continued to be implemented to **protect the health of employees**, including **vaccination campaigns** with the mobilisation of its Integrated Occupational Health Service in France, which has achieved a cumulative total of **8 000 Covid-19 vaccinations from 2021 to January 2022**



More than **40 000 formations to sustainable development have been achieved as of end 2021**, in particular:

- The **WeEngage programme** (dedicated to all employees)
- **Certifying training courses** (ex: Cambridge)
- La **Fresque du Climat**



# An ongoing mobilisation in favor of solidarity and financial inclusion



In 2021, BNP Paribas consecrated € 53,5m to its philanthropic activities in favor of the general interest, for solidarity, culture and the environment



Historical collection record of € 1,3m in 2021 for the Rescue & Recover Fund : in 9 years, € 6m have been distributed to the NGO partners



New engagement of € 1,2m in the Projet Banlieues (Suburbs Project) : in 15 years, 900 associations have benefited from € 26m in total



The Group **innovates** by contributing to the **development of green microfinance**:

- Animation of a coalition of private investors to a better **integration of environmental issues**
- Selection in a call **for projects initiated by the GEF<sup>1</sup>** announced at the **COP 26 in Glasgow**; project consisting in developing a standard and providing certification to MFIs in order to strengthen the adaptation and resilience capacities of their end customers to climate change



BNP Paribas has developed **several measures to help students and young people**:

- Launch of the **Youth Solidarity Plan** in 2021 (**€ 500k for 14 associations**)
- Envelope of **€ 20m of loans without guarantor for scholarship students pursuing high-level studies**

BNP Paribas Cardif (in partnership with the **Gramen Creative Lab**) supported the launch of the social business **Tangata Emploi**, an intrapreneuriat project aiming to to improve the employment rate of people with disabilities



<sup>1</sup> Global Environment Facility (Fonds pour l'environnement mondial)

# Supporting our clients in the ecological transition

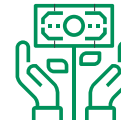


Aligning the credit portfolio with the goal of a net zero world by 2050 :

- Reducing of the credit exposure to oil and gas exploration and production activities by 12% and to the upstream oil industry by 25%<sup>1</sup> by 2025
- The loan portfolio of the electricity sector has a **more favourable mix than the IEA Net Zero<sup>2</sup> and IEA's OECD SDS<sup>3</sup> scenarios, both in 2021 and by 2025**
- The decision of a **full exit from the thermal coal value chain** has led BNP Paribas to **cease its relationship with nearly 60 of its clients companies** that do not have a coal exit strategy in line with the Group's objectives



- **Two Group experts** have joined the **Taskforce on Nature-related Financial Disclosure (TNFD)**, which aims to provide a framework for organisations to measure and act on changing nature-related risks.
- The TNFD was created thanks to a multi-stakeholder group co-chaired by BNP Paribas, whose work came to a successful conclusion in the summer of 2021



BNP Paribas and the **Solar Impulse Foundation** launched a fund of € 150m to support start-ups with high potential and committed to the ecological transition



Financing for **renewable energies** reached an amount of **€ 18,6bn as of end 2021**, 1,5 times more than the € 7.2bn as of end 2015.



The Group has confirmed its great environmental reporting ratings:

- **A-** ranking of the **Carbon Disclosure Project** (end of 2021)
- **100/100** in the field in the rating of the agency SAM (Standard & Poor's)

<sup>1</sup> new announcements issued in May 2022.; <sup>2</sup> International Energy Agency; <sup>3</sup> Sustainable Development Scenario

# BNP Paribas' recognised leadership in Sustainability & Sustainable Finance

## Main extra-financial ratings

**No.1 out of 31 companies** in "diversified banks in Europe" industry and **#16 of 4,888 companies** rated worldwide in **V.E' 2021 rating (71/100** as of December 2021)



Now a Part of **S&P Global**

**No.1 French bank** and **no. 6 European bank** out of 245 banks in SAM's 2021 rating in the **top 6%** companies of the "Banks" sector (**82/100** as of November 2021)

BNP Paribas received a score of **AA** in **MSCI ESG Ratings** (September 2021)



**83/100** à la notation de **Gaia Rating** (Ethifinance)

## Other rankings and CSR prizes



BNP Paribas among the **2022 "Global 100 Most Sustainable Corporations"** ranking (**76<sup>th</sup>**) as **1<sup>st</sup> French** and **fifth European bank**

**Corporate ESG Performance**  
RATED BY **ISS ESG** **Prime**

In **top 10%** and among **"Industry Leaders"** of **ISS ESG Corporate Rating** in the "Commercial Banks & Capital Markets" sector (**C+ Prime** as of November 2021)

BNP Paribas received a score of **A-** to the **Carbon Disclosure Project** rating (December 2021)

BNP Paribas secured an overall score of **72/100** at its rating by **EcoVadis** in July 2021 and positions itself in the **top 4 %** of assessed companies.

## Presence in the sustainable indexes

Member of **Dow Jones Sustainability Indices**

Powered by the S&P Global CSA

BNP Paribas is listed in the **Dow Jones Sustainability Indices World & Europe** (Nov 2021)



BNP Paribas is listed in **Euronext-Vigeo Eiris indexes** World 120, Europe 120, Eurozone 120, France 20 (May 2021)



**Sustainability Award**  
Bronze Class 2022

**S&P Global**



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# BNP Paribas: a frequent Issuer in the Green Bond Market

BNP Paribas is a regular issuer in the green bond market and continues to offer investors further insight into its sustainability strategy in line with its commitments, mainly with public issuances.

## INAUGURAL GREEN BOND ISSUANCE

- Inaugural issuance in Senior Preferred format
- Rating: A1/A+/AA(Low) by Moody's / S&P / Fitch / DBRS
- Maturity of long 5-year
- Pricing at €MS+40bps
- Coupon: 0.500%
- SPO by oekom
- Assurance Report by EY




**BNP PARIBAS**

EUR 500,000,000  
0.500% due 2022

Nov 2016

## SECOND GREEN BOND ISSUANCE

- Issuance in Senior Non-Preferred format
- Rating: Baa1/A-/ A+/A(High) by M/S&P/Fitch/DBRS
- Maturity of 6yr
- Pricing at €MS+55bps
- Coupon: 1.000%
- SPO by oekom
- Assurance Report by EY




**BNP PARIBAS**

EUR 500,000,000  
1.000% due 2024

Apr 2018

## THIRD GREEN BOND ISSUANCE

- Second Issuance in Senior Non-Preferred format
- Rating: Baa1/A-/ A+/A(High) by M/S&P/Fitch/DBRS
- Maturity of 5.5-year
- Pricing at €MS+100bps
- Coupon: 1.125%
- SPO by ISS-Oekom
- Assurance Report by EY




**BNP PARIBAS**

EUR 750,000,000  
1.125% due 2024

Feb 2019

## FOURTH GREEN BOND ISSUANCE

- Third Issuance in Senior Non-Preferred format
- Rating: Baa1/A-/ A+/A(High) by M/S&P/Fitch/DBRS
- Maturity of 6.5-yr NC 5.5year
- Pricing at €MS+75bps
- Coupon: 0.500%
- SPO by ISS-Oekom
- Assurance Report by EY




**BNP PARIBAS**

EUR 750,000,000  
0.5% due 2026/25

Nov 2019

## FIFTH GREEN BOND ISSUANCE

- Fourth Issuance in Senior Non-Preferred format
- Rating: Baa1/A-/ A+/A(High) by M/S&P/Fitch/DBRS
- Maturity of 7-yr NC 6-yr
- Pricing at €MS+80bps
- Coupon: 0.375%
- SPO by ISS-ESG\*
- Assurance Report by EY




**BNP PARIBAS**

EUR 750,000,000  
0.375% due 2027/26

Oct 2020

## SIXTH GREEN BOND ISSUANCE

- Fifth Issuance in Senior Non-Preferred format
- Rating: Baa1/A-/ A+/A(High) by M/S&P/Fitch/DBRS
- Maturity of 6-yr NC 5-yr
- Pricing at €MS+80bps
- Coupon: 1.675%
- SPO by ISS-ESG\*
- Assurance Report by EY




**BNP PARIBAS**

USD 1,000,000,000  
1.675% due 2027/26

June 2021

## SEVENTH GREEN BOND ISSUANCE

- Sixth Issuance in Senior Non-Preferred format
- Rating: Baa1/A-/ A+/A(High) by M/S&P/Fitch/DBRS
- Maturity of 6-yr NC 5-yr
- Pricing at CHF MS+53bps
- Coupon: 0.1475%
- SPO by ISS-ESG\*
- Assurance Report by EY




**BNP PARIBAS**

CHF 230,000,000  
0.1475% due 2027/26

July 2021

## EIGHTH GREEN BOND ISSUANCE

- Seventh Issuance in Senior Non-Preferred format
- Rating: Baa1/A-/ A+/A(High) by M/S&P/Fitch/DBRS
- Maturity of 6.5-yr NC 5.5-yr
- Pricing at €MS+68bps
- Coupon: 0.5%
- SPO by ISS-ESG\*
- Assurance Report by EY



**BNP PARIBAS**

EUR 1,000,000,000  
0.5% due 2028/27

Nov 2021

\*SPO at framework level complemented by an annual SPO at Use of Proceeds level






## BNP Paribas' Green Bond: initial statement

- BNP Paribas Green Bond Framework is aligned with the Green Bond Principles as administered by ICMA.
- The Green Assets allocated to BNP Paribas Green Bond program amount to c. **€7.93 Bn (total drawn amount), backing up to €5.97 Bn Green Bond issuances**, as of end of December 2021.
- In 2021, **BNP Paribas is reporting on its own share of GHG emissions avoided**, i.e., the CO<sub>2</sub>eq. emissions avoided which BNP Paribas is responsible for. Until now, BNP Paribas reported on the total GHG emissions avoided of the projects.
- **100% of the proceeds** are allocated for the financing or refinancing of eligible projects according to the Eligible Categories of BNP Paribas' Green Bond Framework.
- The financed categories of the entire Green Bond portfolio are identified in slide 16. Out of the €7.93 Bn (total drawn amount), **28% of these projects are still under construction**.
- **BNP Paribas carefully selects its Green Assets according to the features of its Green Bond framework**. In addition to the projects' high positive impacts and standards, this **screening process also considers any negative social or environmental impacts**. For more details, please consult our 2021 Second Party Opinion.



# BNP Paribas' Green Bond: 2021 Impact figures

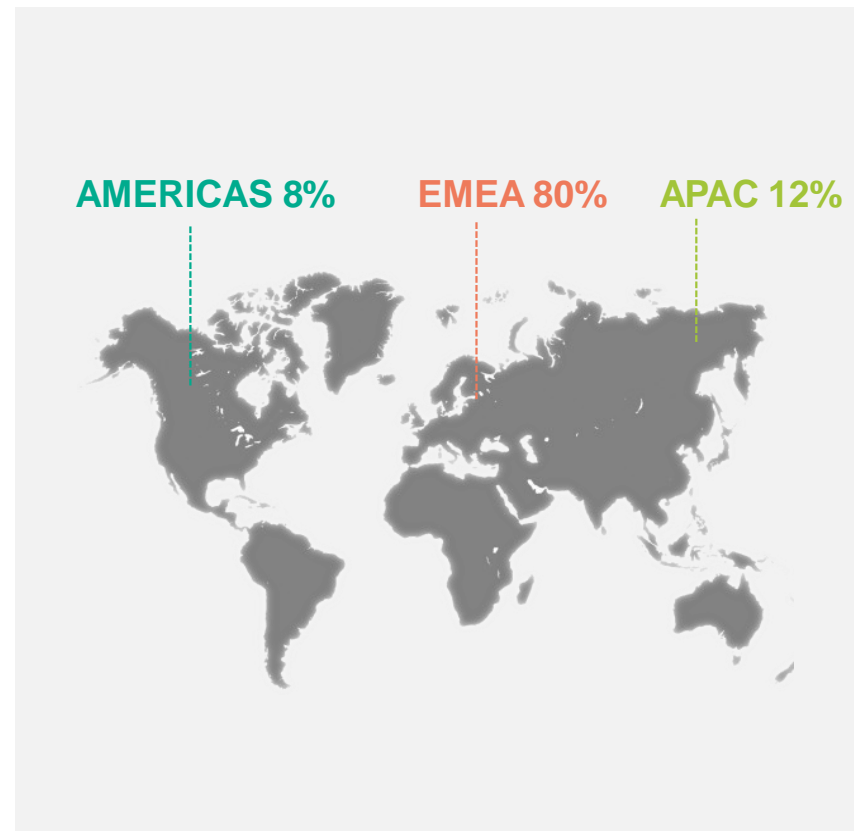
This slide presents an overview of drawn volumes allocated to each project category, considering an overview of projects in operation and under construction. It includes the regional breakdown of the Green Bond pool. The details of these figures can be found in the following slides.

Total Volume (Mn €) <i>(of which in construction)</i>		2021 Impact Indicators*
 Renewable Energy <i>(including Personal Finance assets)</i>	<b>4,752.1</b> <i>(1,520.2)</i>	<b>982.3</b> <i>tCO<sub>2</sub> Emissions Avoided per Mn € Invested**</i>
 Transportation	<b>239.6</b> <i>(27.4)</i>	<b>94.4</b> <i>tCO<sub>2</sub> Emissions Avoided per Mn € Invested</i>
 Private Energy Efficiency Projects	<b>1,176.6</b> <i>(0)</i>	<b>33.4</b> <i>tCO<sub>2</sub> Emissions Avoided per Mn € Invested</i>
<b>6,168.3</b> <i>(1,547.6)</i>		<b>769.8</b> <i>tCO<sub>2</sub> Emissions Avoided per Mn € Invested</i>
 Green Buildings	<b>1,365.6</b> <i>(355.9)</i>	<b>10.3</b> <i>tCO<sub>2</sub> Emissions per Mn € Invested</i>
 Other assets: <i>Water treatment &amp; distribution, Pollution Prevention &amp; Control (Recycling and Energy from Waste), Transmission Lines, Manufacturing of Energy Efficient equipment</i>	<b>397.4</b> <i>(347.5)</i>	<b>26.4</b> <i>tCO<sub>2</sub> Emissions per Mn € Invested</i>
<b>1,763.0</b> <i>(703.4)</i>		<b>13.9</b> <i>tCO<sub>2</sub> Emissions per Mn € Invested</i>

**7,931.3**  
*(2,251.0)* Total Mn € Invested

## Regional Breakdown

*based on drawn volumes*



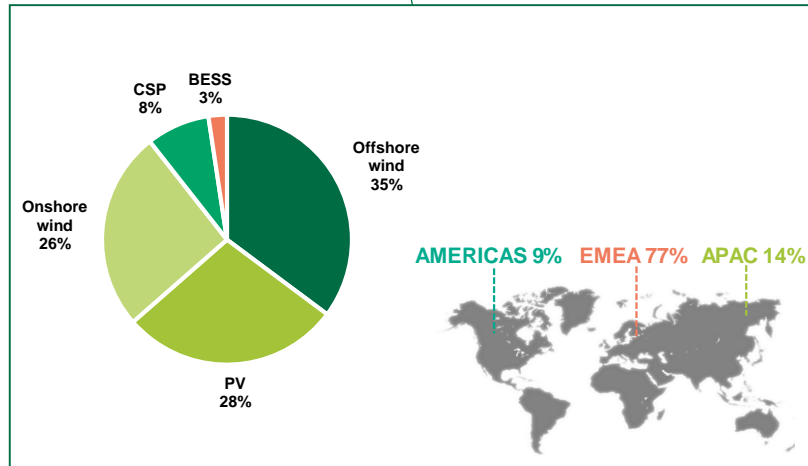
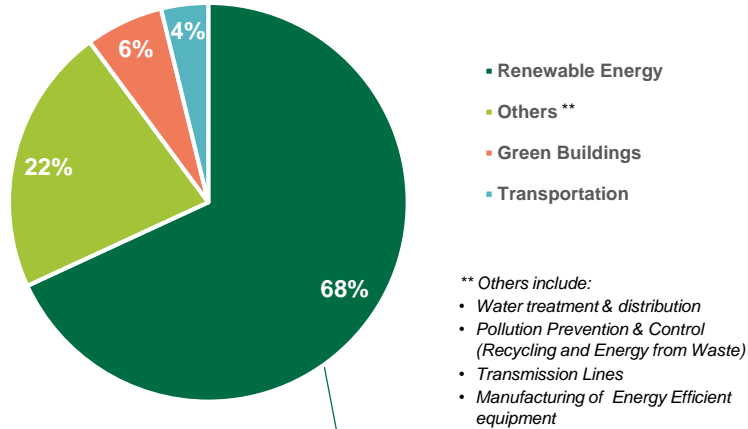
\*Considering BNP Paribas share of financing in the project cost at origination.

\*\*Projects under construction are considered for the Renewable Energy category but excluded from all the other categories

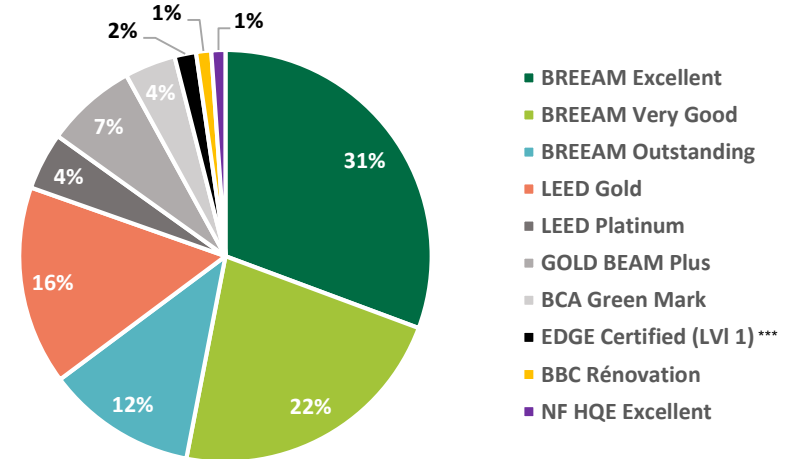
# 2021 Annual Report: Overview (CIB only)

## Green Assets\* by Technology

\*Based on drawn amounts as of 12/2021



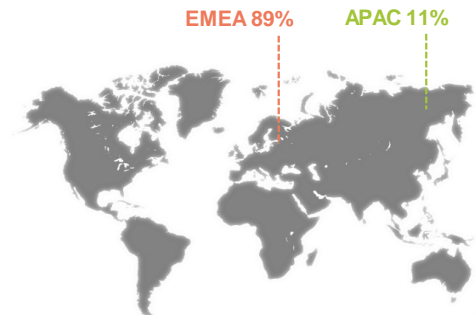
## Green Buildings: Floor Space by Certification



\*\*\* Based on estimated surface

## Green Buildings\* by Region

\*Based on drawn amounts as of 12/2021



# 2021 Annual Report: Sector deep-dive – Greenhouse gas emissions avoided (1/2)



## Renewable Energy

Technology	Countries	Number of Projects	Capacity (MW)	Annual Production (GWh)	Annual tCO <sub>2</sub> eq. Avoided***	BNP Paribas Amount of the financing (drawn) in Mn EUR (or EUReq) as of 31/12/2021	
						Total	In operation
PV		38	6,682	11,151	612,808.2	1,213.5	1,030.2
CSP		22	816	2,081	95,932.2	351.0	351.0
Onshore Wind	AU, BE, CL, FR, GR,	46	8,194	18,106	1,230,615.7	1,106.4	898.9
Offshore Wind	IN, IR, IT, MA, NL,	31	14,654	53,832	2,656,543.6	1,505.7	447.2
BESS	PE, PT, SP, SW,	5	1,300	725	66,009.6	102.0	31.1
Private Rooftop Solar PV (Personal Finance assets)	TW, UAE, UK, US	2	6,749	50	6,238.7	473.4	473.4
<b>TOTAL</b>		<b>144</b>	<b>38,396</b>	<b>85,945</b>	<b>4,668,148.0</b>	<b>4,752.1</b>	<b>3,231.9</b>
<b>GHG Emissions Avoided</b> (tCO <sub>2</sub> eq. emissions avoided per Mn € Invested)						<b>982.3</b>	<i>Estimated GHG avoided for Renewable energy includes projects under expansion/construction</i>



## Transportation

Technology	Countries	Number of projects in operation	Annual tCO <sub>2</sub> eq. Avoided*** (for projects in operation)	BNP Paribas Amount of the financing (drawn) in Mn EUR (or EUReq) as of 31/12/2021	
				Total	In operation
Electric Buses*	CL, FR, IT	2	14,958.4	54.0	54.0
Infrastructure		3	5,077.3	185.6	158.2
<b>TOTAL</b>		<b>5**</b>	<b>20,035.7</b>	<b>239.6</b>	<b>212.2</b>
<b>GHG Emissions Avoided</b> (tCO <sub>2</sub> eq. emissions avoided per Mn € Invested)				<i>Project under construction are not included in estimations</i>	<b>94.4</b>

\* Project scenario assumes that all new electrical buses will replace old EURO III buses (as per the client's sustainability strategy)  
 \*\* Two projects (accounting for 1.1% of the total Transportation portfolio) are still under construction and not included in emission figures  
 \*\*\* Based on BNP Paribas share of financing in the project cost at origination



# 2021 Annual Report: Sector deep-dive – Greenhouse gas emissions avoided (2/2)

## Private Energy Efficiency Projects

Category	Countries	Number of Portfolios	Total energy saved (GWh)	Annual tCO <sub>2</sub> eq. Avoided*** (for projects in operation)	BNP Paribas Amount of the financing (drawn) in Mn EUR (or EUReq) as of 31/12/2021	
					Total	In operation
<b>Private Energy Efficiency Projects</b> (Personal Finance assets)	FR	2	317	39,324.1	1,176.6	1,176.6
<b>GHG Emissions Avoided</b> (tCO <sub>2</sub> eq. emissions avoided per Mn € Invested)					<i>No projects are under construction</i>	<b>33.4</b>

## Summary of Greenhouse gas emissions avoided

Eligible Project Category	Number of projects/ Portfolios	Drawn Volume	Total GHG avoided	GHG emissions avoided***	GHG emissions avoided*** per million EUR eq. invested
Unit	(#)	(Mn EUR eq.)	(tCO <sub>2</sub> eq.)	(tCO <sub>2</sub> eq.)	(tCO <sub>2</sub> eq./ Mn EUR eq.)
(Renewable Energy – CIB)	142	4,278.7	27,678,057.8	4,661,909.4	1,089.6
(Private Rooftop Solar PV – Personal Finance assets)	2	473.4	6,238.7	6,238.7	13.2
<b>Total Renewable Energy</b>	<b>144</b>	<b>4,752.1</b>	<b>27,684,296.5</b>	<b>4,668,148.0</b>	<b>982.3**</b>
<b>Transportation - CIB</b>	<b>5</b>	<b>212.2</b>	<b>182,301.9</b>	<b>20,035.7</b>	<b>94.4</b>
<b>Energy Efficiency - Personal Finance assets</b>	<b>2</b>	<b>1,176.6</b>	<b>39,324.1</b>	<b>39,324.1</b>	<b>33.4</b>
<b>Total</b>	<b>151</b>	<b>6,140.9</b>	<b>27,905,922.4</b>	<b>4,727,507.8</b>	<b>769.8**</b>

\* based on drawn volumes and actual BNPP shares of financing in the projects cost

\*\* Weighted average per drawn volume with respect to each category portfolio

\*\*\*Based on BNP Paribas share of financing in the project cost at origination

# 2021 Annual Report: Sector deep-dive – Greenhouse gas footprint

The Emissions Intensity is calculated over the operating projects only.



## Green Buildings

Category	Green Building Certifications	Countries	Number of buildings		Estimated Carbon Footprint (tCO <sub>2</sub> eq.)*** (for buildings in operation)	BNP Paribas Amount of the financing (drawn) in Mn EUR (or EUReq) as of 31/12/2021	
			In construction	In operation		Total	In operation
Green Buildings	BREEAM Outstanding/Excellent/Very good, LEED Platinum/ Gold, Gold Beam Plus, Edge Certified, NF HQE Excellent, BCA Green Mark.	FR, HK, IR, IT, PT, SG, SP, UK	10	19	10,404.8	1,365.6	1,009.7
<b>Emissions Intensity</b> tCO <sub>2</sub> emissions per Mn € Invested)						<i>Project under construction are not included in estimations</i>	<b>10.3</b>



## Other Eligible Green Assets

Sub-Categories	Countries	Number of projects		Estimated Carbon Footprint (tCO <sub>2</sub> eq.)*** (for projects in operation)	BNP Paribas Amount of the financing (drawn) in Mn EUR (or EUReq) as of 31/12/2021		
		In construction	In operation		Total	In operation	
Water treatment & distribution, Pollution Prevention & Control (Recycling and Energy from Waste), Transmission Lines, Manufacturing of Energy Efficient equipment	AO, AU, BE, FR, TK, UK, SE	8	2	1,318.3	397.4	49.9	
<b>Emissions Intensity</b> tCO <sub>2</sub> emissions per Mn € Invested)						<i>Project under construction are not included in estimations</i>	<b>26.4</b>

\* Carbon Footprint is estimated based on economic activity data collected from the projects borrower companies.

\*\* Water Management, Energy Efficiency, BESS, Recycling

\*\*\* Based on BNP Paribas share of financing in the project cost at origination



# Examples of the corporate green assets



## Viking Link *Interconnector*

- Project developed by National Grid
- The loan follows the guidelines set by the Loan Market Association's Green Loan Principles and is to fund a €2 billion subsea electricity cable, between the UK and Denmark.
- Named Viking Link, the 1400 MW cable will supply renewable energy to 1.4 million households.

<https://www.nationalgrid.com/national-grids-viking-link-interconnector-secures-first-multi-eca-green-loan-worth-us743m-0>



## Dogger Bank Wind farms *Offshore wind farms*

- BNP Paribas participated as MLA in the financing of the three phases of the Dogger Bank Wind Farm, which represent the largest offshore wind project financing to date globally.
- BNP Paribas also acted as financial advisor on the three phases of financing Dogger Bank A, B and C, helping the sponsors secure £8.5bn of funding.
- The Dogger Bank Wind Farm will provide enough clean energy to power six million UK homes once completed in 2026.

[Dogger Bank Wind Farm A and B reaches financial close - Dogger Bank Wind Farm](#)  
[Net zero transition perspectives: Dogger Bank Wind Farm - YouTube](#)



## TEESS *Rooftop Solar PV*

- TEESS, a joint venture between the French energy company TotalEnergies and Envision Energy, developed a 170MW rooftop solar portfolio
- The transaction is aligned with the LMA/ LSTA Green Loan Principles of February 2021, BNP Paribas acted as joint Green Loan Coordinator
- This is the first international non-recourse green project financing in China's renewable sector, and the first such project to receive a second-party opinion from a sustainability expert.

[From the rooftops: supporting China's energy transition - BNP Paribas CIB](#)



1. LATEST UPDATES ON BNP PARIBAS CSR POLICY
2. OVERVIEW OF THE SINGLE POOL OF ASSETS (2021)
- 3. BNP PARIBAS GREEN BOND: METHODOLOGY NOTES**
4. EXTERNAL REVIEW



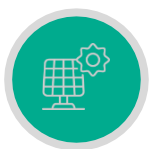
## Methodology notes: Renewable Energy

The impact methodology described below refers to the Renewable Energy category, including Onshore/Offshore Wind, Concentrated Solar Power, Solar Photovoltaic and other technologies described in eligible categories.

The avoided emissions represent **the share of BNP Paribas' in the total GHG emissions avoided by these** renewable energy systems. The methodology used to compute the CO<sub>2</sub> emissions avoided relies on EIB's Project Carbon Footprint Methodologies\*.

BNP Paribas estimates its GHG emissions avoided based on **its share of financing in the cost of projects included in the Green Assets pool.**

$$\begin{array}{l} \text{Avoided GHG emissions} \\ \text{(in tCO}_2\text{eq / year)} \end{array} = \begin{array}{l} \text{GHG emissions of} \\ \text{the Renewable Project} \\ \text{(in tCO}_2\text{ eq / year)} \end{array} - \begin{array}{l} \text{GHG baseline emissions of} \\ \text{project's country grids} \\ \text{(in tCO}_2\text{eq / year)} \end{array}$$



**A diverse Renewable Energy portfolio with projects across EMEA (80%), APAC (12%) and AMERICAS (8%)**



**55% Wind Projects, 36% PV Projects, 7% CSP Projects, 2% BESS Projects**

*% are based on drawn volumes per category (not project count) and include PF assets*

### 2021 IMPACT ASSESSMENT

- Total GHG emissions avoided from Renewable Energy assets included in the Green Assets pool\*\*:  
**27,684,296.5 tCO<sub>2</sub> eq.**
- GHG emissions avoided via BNP Paribas financing:  
**4,668,148.0 tCO<sub>2</sub> eq.**
- GHG emissions avoided per Mn EUR invested by BNP Paribas:  
**982.3 tCO<sub>2</sub> eq/ Mn EUR invested**

\* [https://www.eib.org/attachments/strategies/eib\\_project\\_carbon\\_footprint\\_methodologies\\_en.pdf](https://www.eib.org/attachments/strategies/eib_project_carbon_footprint_methodologies_en.pdf)

\*\* Including Personal Finance assets

# Methodology notes: Transportation

The impact methodology described below refers to the Transportation category.

Similarly to the impact of Renewable Energy projects, the avoided emissions represent the **estimated share of GHG emissions avoided associated to BNP Paribas' share of financing in the cost of transportation projects**. When possible, BNP Paribas uses the actual GHG emissions avoided figures provided by the project's Company. For metro lines, when no independent estimation is available, the estimated emissions of the project are calculated based SNCF CO<sub>2</sub> Information for Transportation Services Methodology\*.

The avoided emission are calculated assuming emissions occurred without the existence of the green project.

$$\begin{aligned} \text{Avoided GHG emissions} &= \text{Project Emissions} - \text{Base Scenario} \\ \text{(in tCO}_2\text{eq / year)} & & \text{(in tCO}_2\text{eq / year)} \end{aligned}$$

**Project Emissions** (in tCO<sub>2</sub> eq / year)

Average distance travelled by passenger x CO<sub>2</sub> emission per kilometer for a passenger/type of transport x Total number of passengers per year

**Base Scenario** (in tCO<sub>2</sub> eq / year)

(where the same passengers would use different means of transport if the Project did not exist)



**23% of the Transportation portfolio is constituted by financings to Electrical Buses and 77% to infrastructure projects (metro/ train lines, accounting for a total of 375 km of railways).**

*% are based on drawn volumes per category; not project count.*

## 2021 IMPACT ASSESSMENT\*\*

- Total GHG emissions avoided from transportation assets included in the Green Assets pool:  
**182,301.9 tCO<sub>2</sub> eq.**
- GHG emissions avoided via BNP Paribas financing:  
**20,035.7 tCO<sub>2</sub> eq.**
- GHG emissions avoided per Mn EUR invested by BNP Paribas:  
**94.4 tCO<sub>2</sub> eq / Mn EUR invested**

\* [http://medias.sncf.com/sncfcom/pdf/co2/Methodologie\\_generale\\_Info\\_CO2\\_EN.pdf](http://medias.sncf.com/sncfcom/pdf/co2/Methodologie_generale_Info_CO2_EN.pdf)

\*\* Excluding emissions avoided of projects still under construction (11% of the drawn volume) – 2 transport infrastructure projects out of 7 transportation projects

# Methodology notes: Green Buildings

The impact methodology described below refers to the Green Buildings.

The use of proceeds eligible to this category include acquisition and construction of green buildings with environmental certifications (minimum BREEAM Very Good, LEED Gold or equivalent certifications duly supported by sustainability evidences) and retrofit of commercial and public buildings.

The impact report, as for the previously reported categories, is presented on a portfolio basis and is computed according to the methodologies below:

**Carbon Footprint  
(Green Buildings  
portfolio)**

*(in tCO<sub>2</sub>eq / year)*

$$= \frac{\text{Financed Amount}_b}{\text{Property Value at Origination}} \times$$

Real energy consumption of the building  $\left(\frac{kWh}{annum}\right) \times$  country emission factor  $\left(\frac{tCO_2}{kWh}\right)$

**or**

GHG estimated by the EPC  $\left(\frac{tCO_2}{m^2.annum}\right) \times$  total surface area  $(m^2)$

**or**

Energy consumption estimated by the EPC  $\left(\frac{kWh.m^2}{annum}\right) \times$  total surface area  $(m^2)$

$\times$  country emission factor  $\left(\frac{tCO_2}{kWh}\right)$

b : building

## Green Building Environmental Certifications



## 2021 IMPACT ASSESSMENT

- 19 operational Green Buildings accounting for a total of 1,009.7 Mn EUR eq.
- GHG footprint of BNP Paribas\*: **10,404.8 tCO<sub>2</sub> eq.**
- GHG footprint per Mn EUR invested by BNP Paribas\*: **10.3 tCO<sub>2</sub> eq / Mn EUR invested**

\* Excluding emissions of buildings still under construction (26%)

## Methodology notes: Other eligible assets

The impact of the remaining assets in BNP Paribas Green Bond Framework eligible categories. Here a basic attribution concept is applied. The eligible asset accounts for the portion (attribution factor) of the annual emissions of the project determined by the ratio between BNP Paribas outstanding amount and the total equity and debt of the financed project. The carbon footprint of each project is therefore calculated by multiplying the this portion (attribution factor) by the emissions of the respective project. For Private Energy Efficiency projects, GHG Emissions avoided are computed based on the Renewable Energy methodology (see slide 20).

**Carbon Footprint per eligible category**  
(in tCO<sub>2</sub>eq / year)

$$= \frac{\text{Financed Amount}_p}{\text{Total (debt + equity)}_p} \times \text{Project emissions}^*$$

\* When project emissions are not available assumption based on the total GHG emissions per category in the project's country and total volume of financed assets per category will be considered.

*p : project*



- **Water treatment & distribution: 15%**
- **Recycling: 17%**
- **Energy from Waste: 30%**
- **Transmission Lines: 25%**
- **Manufacturing of Energy Efficient equipment: 13%**

*% are based on drawn volumes per category; not project count.*

## 2021 IMPACT ASSESSMENT\*

- 2 operational projects accounting for a total of 49.9 Mn EUR eq.
- GHG footprint of BNP Paribas: **1,318.3 tCO<sub>2</sub> eq.**
- GHG footprint per Mn EUR invested by BNP Paribas\*: **26.4 tCO<sub>2</sub> eq / Mn EUR invested**

*\* Excluding projects under construction. Emissions are estimated based on economic activity data collected from the borrower company. These emissions are estimated using official statistical data/ acknowledged environmentally extended input-output (EEIO) tables providing region- or sector-specific average emission factors expressed per economic activity*

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# Second Party Opinion - Sustainability Quality of the Issuer and its Green Bonds Portfolio



“ISS reviewed a total volume of 1,921.3 million euros of new green assets added in 2021, complying with the Use of Proceeds categories listed in the issuer’s Green Bond Framework.”

“Each of the bonds’ Use of Proceeds categories has been assessed for its contribution to, or obstruction of, the SDGs. This assessment is a high-level evaluation conducted at the framework level.”  
 “This assessment is displayed on 5-point scale.”

SPO SECTION	SUMMARY	EVALUATION <sup>2</sup>
<b>Sustainability quality of the green bonds portfolio</b>	The overall sustainability quality of the green bonds in terms of sustainability benefits, risk avoidance and minimisation is good based upon the ISS ESG assessment. The green bonds are (re-)financing eligible asset categories including sustainable water and wastewater management, renewable energy, energy efficiency, pollution prevention & control, green buildings, sustainable water and wastewater management and clean transportation.	<b>Positive</b>
<b>Annex 1: Green bonds link to issuer’s sustainability strategy</b>	Those use of proceeds categories have a significant contribution to SDGs 6 “Clean water and sanitation”, 7 “Affordable and clean energy”, 11 “Sustainable cities and communities”, 12 “Responsible consumption and production” and 13 “Climate action”. The environmental and social risks associated with those use of proceeds categories have been well managed.  According to the ISS ESG Corporate Rating published on 12.04.2022, the issuer shows a high sustainability performance against the industry peer group on key ESG issues faced by the financials/commercial banks and capital markets sector. The issuer is rated 13 <sup>th</sup> out of 301 companies within its sector on 04.04.2022.	<b>Consistent with issuer’s sustainability strategy</b>
<b>Annex 2: Alignment with GBPs</b>	The Use of Proceeds financed under this Green Bond Framework are consistent with the issuer’s sustainability strategy and material ESG topics for the issuer’s industry. The rationale for issuing green bonds is clearly described by the issuer.  The issuer has defined a formal concept for its Green Bond Framework regarding use of proceeds, processes for project evaluation and selection, management of proceeds and reporting. This concept is in line with the ICMA GBPs. The full assessment can be found on <a href="#">BNP Paribas’s website</a> .	<b>Positive</b>

<sup>2</sup>ISS ESG’s evaluation is based on the BNP Paribas Green Bond Framework (October 2021 version), on the analysed asset pool as received on the 19.02.2021, and on the ISS ESG Corporate Rating applicable at the SPO delivery date (updated on the 12.04.2022). ISS ESG underwent a controversy screening of the asset pool on the 12.04.2021.

	Significant Obstruction	Limited Obstruction	No Net Impact	Limited Contribution	Significant Contribution
USE OF PROCEEDS	CONTRIBUTION OR OBSTRUCTION			SUSTAINABLE DEVELOPMENT GOALS	
Green Buildings		Significant Contribution			11 SUSTAINABLE CITIES AND COMMUNITIES
Recycling		Significant Contribution			12 RESPONSIBLE CONSUMPTION AND PRODUCTION
Railway and Metro (Transport)		Limited Contribution			7 AFFORDABLE AND CLEAN ENERGY, 13 CLIMATE ACTION
Water Distribution		Significant Contribution			6 CLEAN WATER AND SANITATION
Wastewater Treatment		Significant Contribution			6 CLEAN WATER AND SANITATION
Wind power - Onshore & Offshore (Renewable Energy)		Significant Contribution			7 AFFORDABLE AND CLEAN ENERGY, 13 CLIMATE ACTION
CSP (Renewable Energy)		Significant Contribution			7 AFFORDABLE AND CLEAN ENERGY, 13 CLIMATE ACTION
Solar P.V.		Significant Contribution			7 AFFORDABLE AND CLEAN ENERGY, 13 CLIMATE ACTION
Rooftop PV (Renewable Energy)		Significant Contribution			7 AFFORDABLE AND CLEAN ENERGY, 13 CLIMATE ACTION
Battery Energy Storage Systems (BESS)		Significant Contribution			7 AFFORDABLE AND CLEAN ENERGY, 13 CLIMATE ACTION
Energy Efficiency		Limited Contribution			7 AFFORDABLE AND CLEAN ENERGY, 13 CLIMATE ACTION

Second Party Opinion (SPO) - Sustainability Quality of the Issuer and Sustainability Quality of the Issuer and its Green Bonds Portfolio of BNP Paribas (invest.bnpparibas)

# Independent Report from EY

**“Report of the independent verifier on BNP Paribas’ 2021 Green Bond Reporting on the compliance of the green assets selected for the Green Bonds with BNP Paribas’ Green Bond Framework, on the impact reporting provided to investors and on the management of the net proceeds”**



- *“...we hereby present our report on BNP Paribas’ 2021 Green Bond Reporting (available on BNP Paribas’ website) on (i) the compliance of the green assets selected for the Green Bonds issued in November 2016, April 2018, February 2019, November 2019, October 2020, June 2021, July 2021 and November 2021 with BNP Paribas’ Green Bond Framework (as of November 2021 and available on BNP Paribas’ website), (ii) the impact reporting of the green assets for the year 2020, and (iii) the management of the net proceeds (as of December 31, 2021).”*
- *“In our opinion, the green assets selected for the 2016, 2018, 2019, 2020 and 2021 Green Bonds issued by BNP Paribas and the impact indicators mentioned in the annual use of proceeds reporting, comply, in all material aspects, with BNP Paribas’ Green Bond Framework.”*
- *“On the basis of our work, we have no matters to report on the consistency of the drawn amounts of the selected green assets with the net proceeds of the bonds.”*

[green-bond-ey-assurance-report-27-avril-2022 \(invest.bnpparibas\)](#)





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