



Global Green Bonds

First Half 2019 Review

Quick Green Facts



Global Green Bonds
reached US\$86.4 billion
in the first half of 2019

Global ESG Bonds
raised US\$110.1 billion
in the first half of 2019



Top Issuer Nations



France



United States



China

Top Issuing Industries



Government &
Agencies



Financials



Energy &
Power

Most Active Issuer

Engie SA

Largest Green Bond

KfW Bankengruppe

Top Bookrunner

HSBC Holdings PLC

Global green bonds hit record levels in 1H2019 as interest in responsible investment continues to grow

US\$86.4 billion

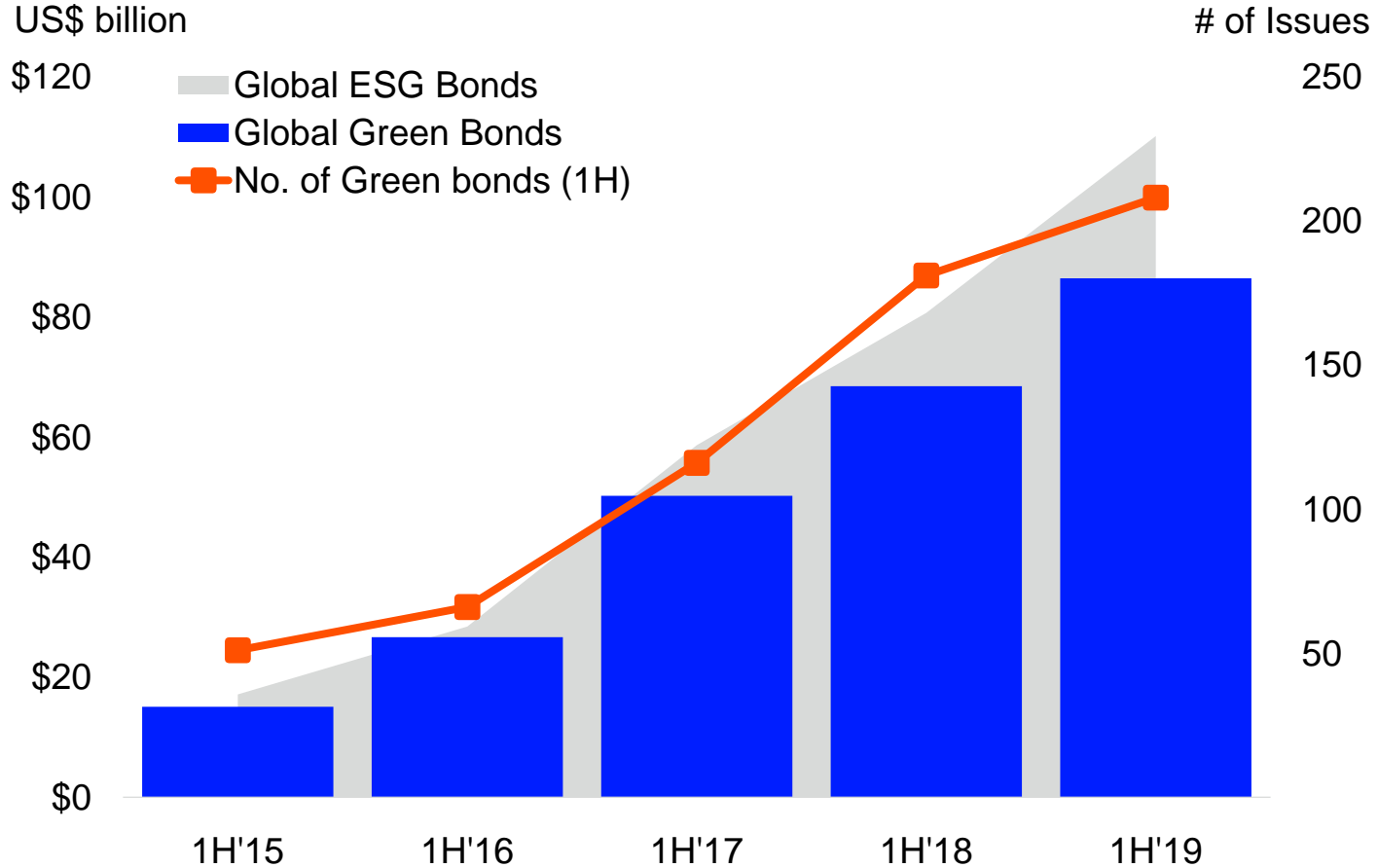
Total proceeds raised from green bonds issued globally in 1H 2019, a **26.2%** increase from a year ago, as number of issues grew **14.9%**.

In 2018, global green bond issuance soared to a record high, raising **\$132.3 billion** in annual proceeds

US\$110.1 billion

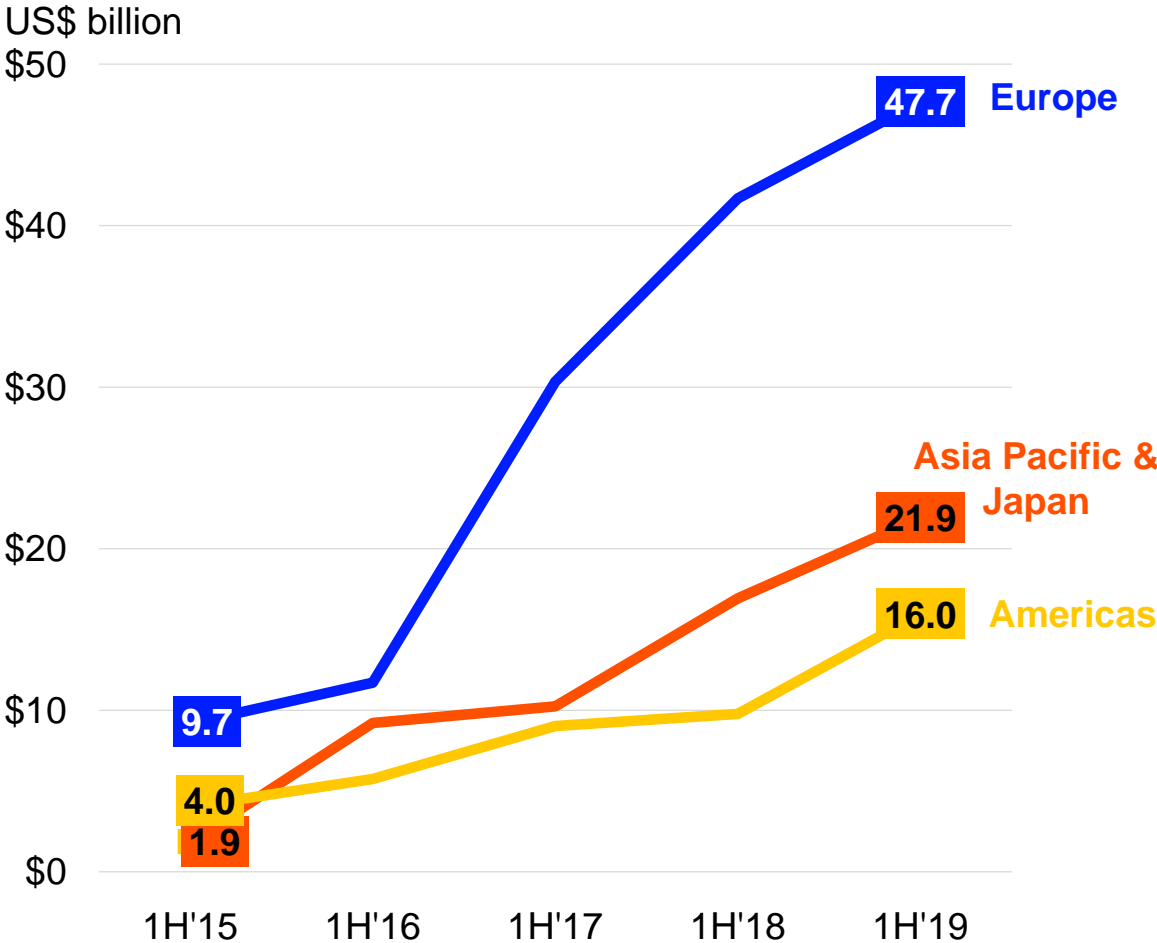
Total proceeds raised from global ESG (environmental, social and governance) bond issuance in 1H 2019, up **36.5%** from the same period last year.

Green bonds gain momentum and reach all-time high in 1H 2019



Europe continues to be at the forefront of global green bond issuance in 1H2019, capturing 48% market share

Europe leads green bonds; China emerges as key player



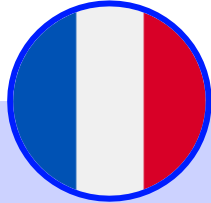
Issuance of green bonds in three major key regions – **Europe, Asia Pacific & Japan** and **Americas**– witnessed fast-growing activity, as the markets innovated to meet investor appetite for sustainable investments.

Since the first green bond was issued in 2007 by the European Investment Bank (EIB) to raise funding for climate-related projects, **Europe** remains to be the largest regional market offering green bonds, with 55.2% market share, raising US\$47.7 billion proceeds in 1H2019. **France** accounted for majority of the global green bond proceeds in 1H 2019, capturing 13.4% market share. **Germany**, with 8.1% market share, saw its record offering from KfW Bankengruppe’s US\$3.4 billion green bond issuance in 1H 2019.

Asia Pacific including Japan, with 25.4% market share, raised a record high of US\$21.9 billion, up 29.6% from a year ago. The surge was led by **China** after it emerged as a key player since 2016. **Japan** started to pick up issuance in 2018 and raised US\$2.2 billion in 1H2019, up 72.9% from 1H2018. **Southeast Asia** also gained momentum and saw US\$3.3 billion worth of proceeds in 1H2019, up 36.1% growth from the comparable period in 2018. Elsewhere in Asia, **Hong Kong** raised US\$1 billion from its inaugural green bond, and **South Korea** saw a 467.5% surge in proceeds from a year ago to US\$3.9 billion in 1H 2019.

Americas raised US\$16.0 billion in green bonds proceeds, up 63.3% from a year ago. **United States** captured 11.3% market share globally, and followed behind France as most active issuer nation this year. **Chile** launched its first sovereign green bond worth US\$1.4 billion.

France takes the lead in the green bonds market; China slips to third place and trails behind United States



FRANCE

US\$11.6 billion

proceeds

▲ 70.2%

YoY % change in proceeds

13.4%

market share

France ranks first in global green bonds ranking after raising a total of US\$11.6 billion in 1H2019. French electric utility power **Engie SA**, is currently the most active corporate green bond issuer worldwide, raising US\$2.28 billion from two green bond sales in the first half of 2019.



UNITED STATES

US\$9.7 billion

proceeds

▲ 60.6%

YoY % change in proceeds

11.3%

market share

United States green bond offerings reached US\$9.7 billion in 1H2019, a 60.6% increase from a year ago. **MidAmerica Energy's** US\$1.5 billion is the biggest U.S. non-financial corporate green bond issuance in 1H 2019.



CHINA

US\$8.3 billion

proceeds

▼ 4.0%

YoY % change in proceeds

9.6%

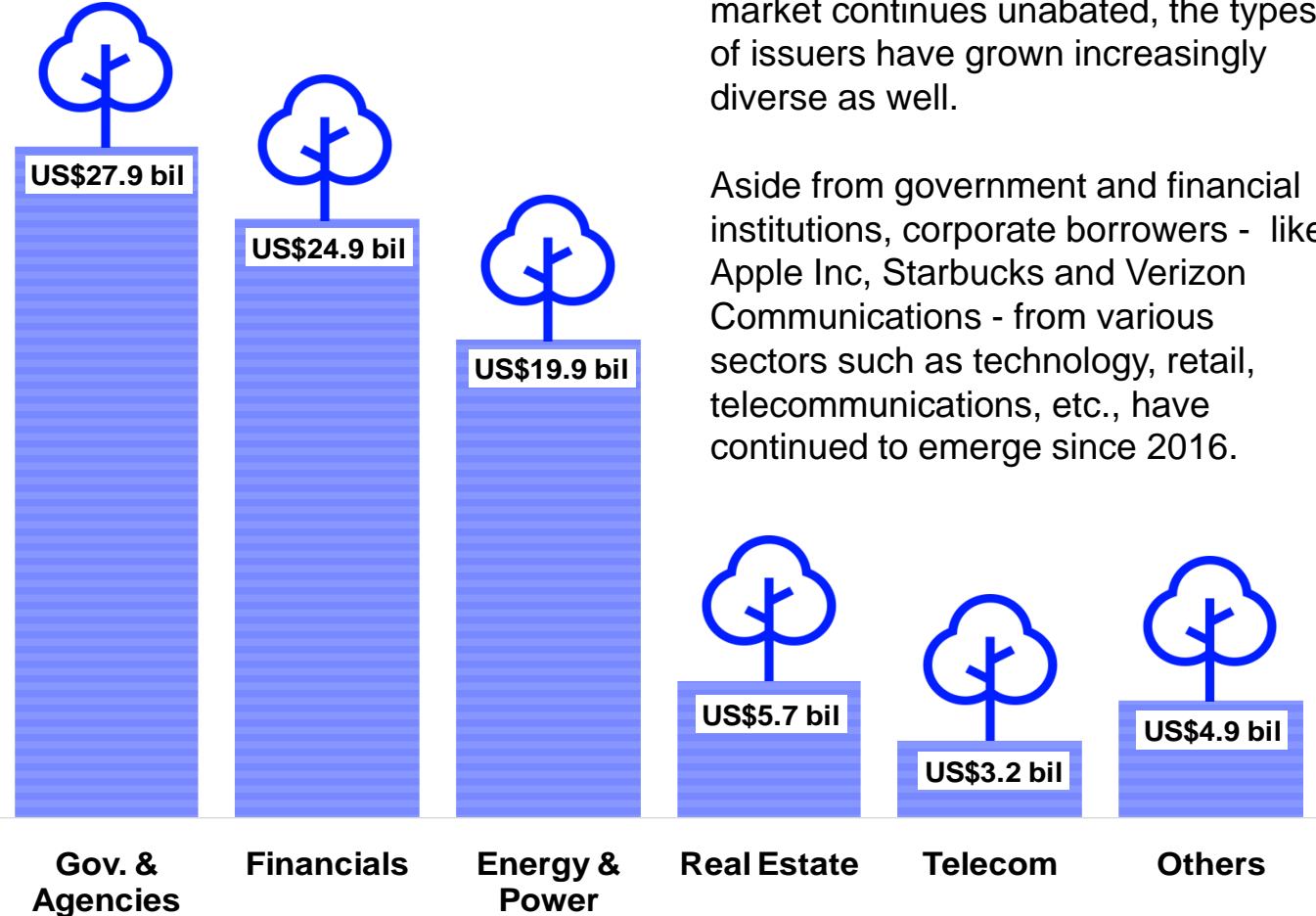
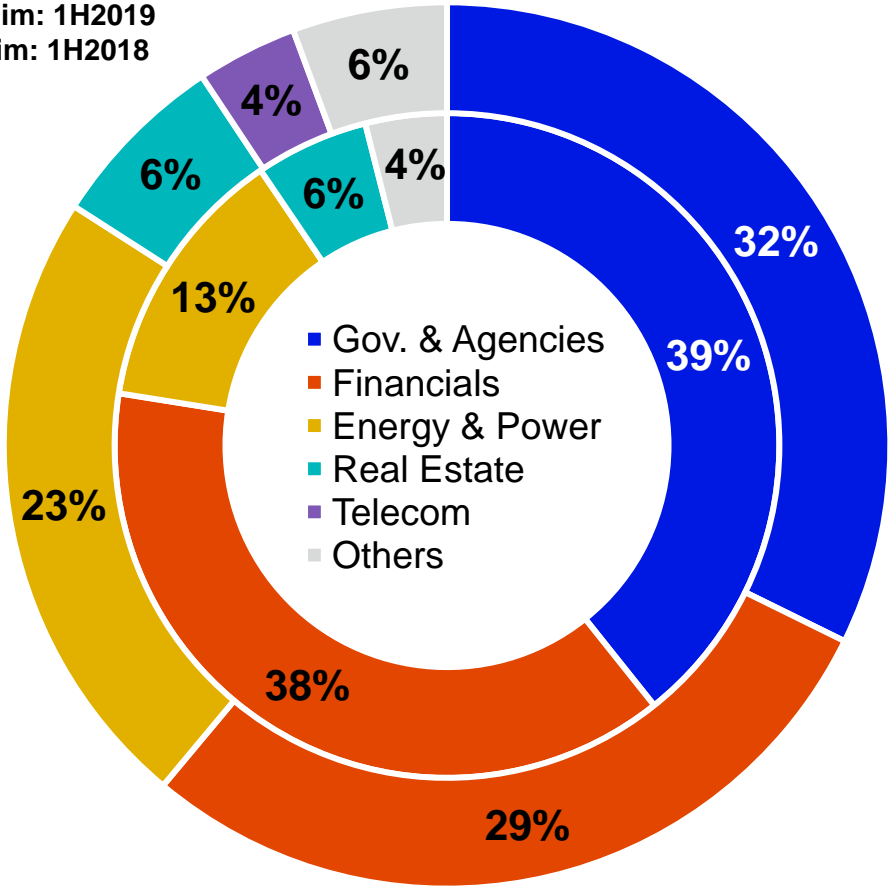
market share

China slipped to third place, after taking the lead for three consecutive years since 2016. Chinese green bonds declined 4% in proceeds from a year ago and totaled US\$8.3 billion in 1H2019. **ICBC** was the most active Chinese green bond issuer, raising an aggregate of US\$2.2 billion proceeds from three green bond offerings in 1H2019.

SSA* and Financials dominate with 61% combined market share; More sectors tap the green bond market

Energy & Power gained market share in 1H2019

Outer Rim: 1H2019
Inner Rim: 1H2018

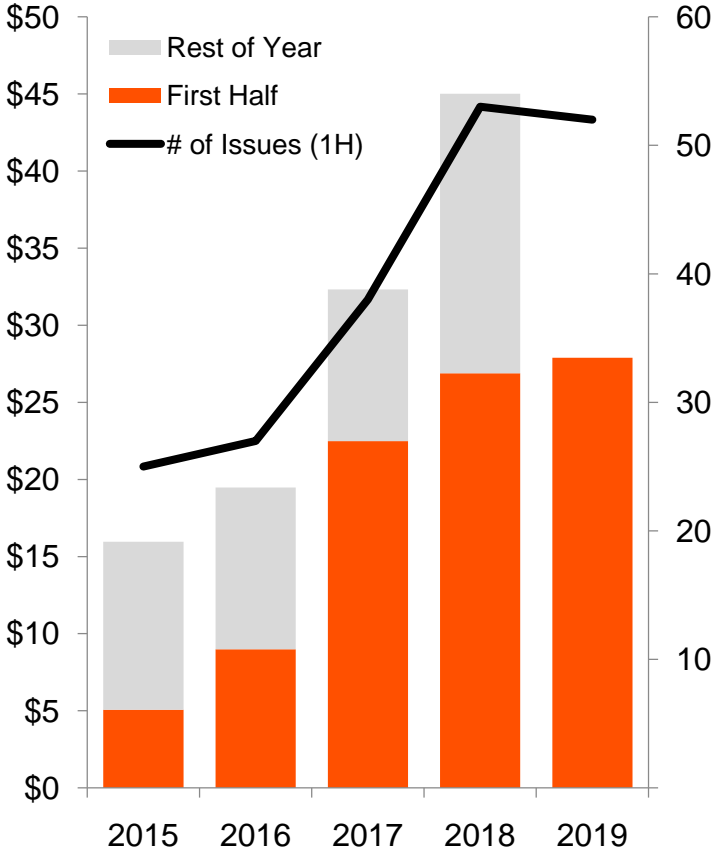


As the growth of the green bond market continues unabated, the types of issuers have grown increasingly diverse as well.

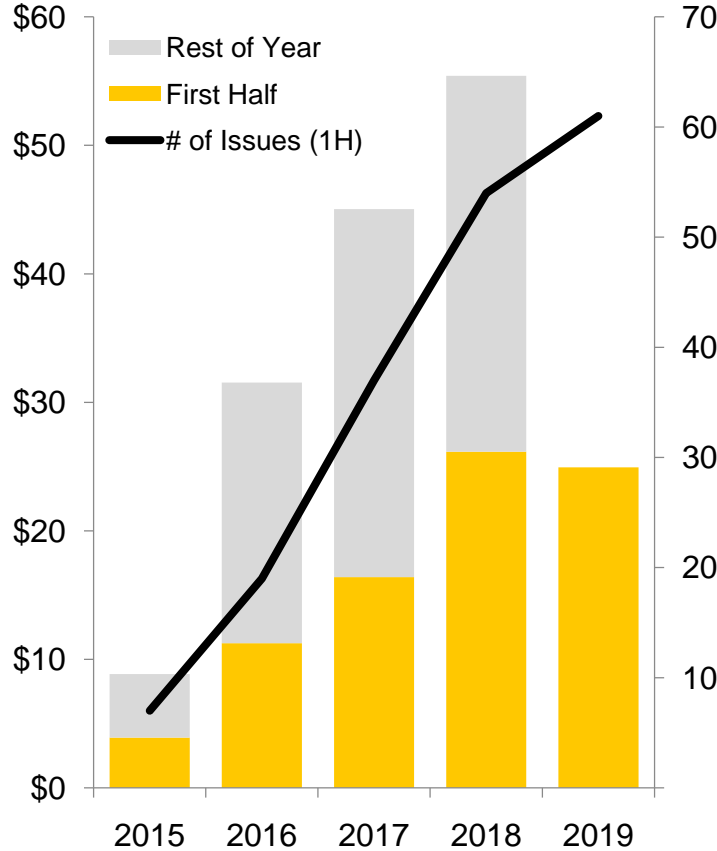
Aside from government and financial institutions, corporate borrowers - like Apple Inc, Starbucks and Verizon Communications - from various sectors such as technology, retail, telecommunications, etc., have continued to emerge since 2016.

Non-financial green bond offerings surpass proceeds raised in 2018, as companies become increasingly active

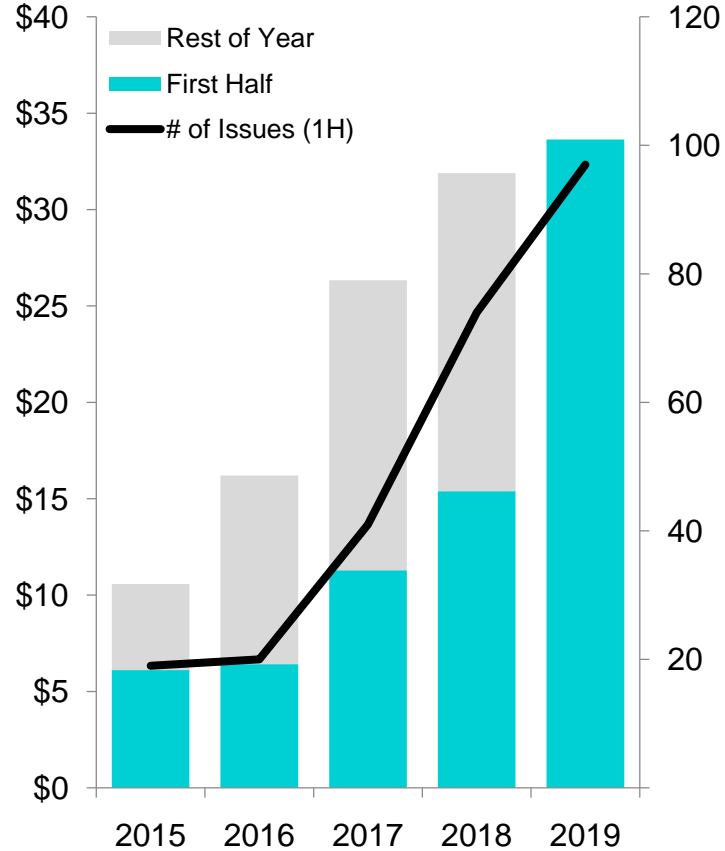
Government & Agencies up 4% from 1H2018, captured 32% market share in 1H 2019



Financials fell 5% in proceeds despite increase in green bond offerings



Non-Financials gained market share, capturing 39% in 1H 2019 from 22% in 1H 2018



Engie SA is the largest corporate issuer in 1H2019. KfW Bankengruppe issued the largest offering in 1H2019

Top Corporate Green Bond Issuers – 1H 2019

Rank	Issuer	Proceeds (US\$ mil)	# of Issues	Refinitiv ESG Score*	Domicile Nation	Industry
1	Engie SA	2,783.2	2	B+	France	Power
2	Industrial & Commercial Bank of China (ICBC)	2,212.0	3	A-	China	Banks
3	Iberdrola SA	1,661.9	2	A-	Spain	Power
4	Landesbank Baden-Wuerttemberg	1,582.6	2	-	Germany	Banks
5	LG Chem Ltd	1,557.1	2	B	South Korea	Petrochemicals
6	Berkshire Hathaway Inc	1,494.0	1	B	United States	Industrial Conglomerates
7	Bank of Jiangsu	1,490.1	1	C+	China	Banks
8	TenneT Holding BV	1,379.8	1	-	Netherlands	Power
9	Digital Realty Trust Inc	1,236.0	2	C-	United States	REITs
10	Orsted A/S	1,163.3	1	A+	Denmark	Oil & Gas

Top Global Green Bonds – 1H 2019

Issue Date	Issuer	Domicile Nation	Proceeds (US\$ mil)	Industry	Ultimate Parent
05/15/19	KfW Bankengruppe	Germany	3,354.1	National Agency	Germany (Federal Republic Of)
02/28/19	Ministry Of Treasury Republic	Poland	2,255.9	National Government	Poland
03/12/19	Societe du Grand Paris	France	2,231.6	National Agency	Societe du Grand Paris
06/27/19	SNCF Réseau	France	1,675.0	National Agency	SNCF
06/14/19	Engie SA	France	1,659.1	Power	Engie SA
04/16/19	ICBC-Singapore Branch	Singapore	1,500.0	Banks	Industrial & Commercial Bank of China (ICBC)
01/07/19	MidAmerican Energy	United States	1,494.0	Power	Berkshire Hathaway Inc
04/16/19	Bank of Jiangsu	China	1,490.1	Banks	Bank of Jiangsu Co Ltd
06/17/19	Chile	Chile	1,410.4	National Government	Chile
05/20/19	TenneT Holding BV	Netherlands	1,379.8	Power	TenneT Holding BV

*Refinitiv ESG Score is an overall score of a company based on the reported information in the environmental, social and corporate governance pillars.

HSBC tops Global Green Bonds Book Runner League Tables in the First Half 2019

1H 2019 Rank	Book Runner	Proceeds Amount + Overallotment Sold This Market (US\$ Mil)	Mkt. Share	Number of Issues	1H 2018 Rank	Proceeds Amount + Overallotment Sold This Market (US\$ Mil)	Mkt. Share	Number of Issues
1	HSBC Holdings PLC	5,687.1	6.7	41	4	3,611.4	5.3	25
2	Credit Agricole CIB	5,458.1	6.4	31	1	4,518.1	6.6	18
3	Bank of America Merrill Lynch	4,703.4	5.5	25	2	4,363.7	6.4	16
4	BNP Paribas SA	4,662.5	5.5	25	3	4,153.8	6.1	16
5	JP Morgan	4,014.6	4.7	26	5	3,213.7	4.7	12
6	Citi	3,660.4	4.3	25	6	2,929.5	4.3	13
7	Societe Generale	2,876.9	3.4	15	10	2,147.3	3.1	9
8	Barclays	2,679.8	3.1	17	7	2,810.4	4.1	11
9	UniCredit	2,503.2	2.9	11	14	1,532.8	2.2	8
10	ING	2,448.5	2.9	17	9	2,380.6	3.5	7
11	SEB	2,359.6	2.8	17	8	2,394.3	3.5	19
12	Goldman Sachs & Co	2,186.9	2.6	11	53	208.4	.3	2
13	Danske Bank	2,104.3	2.5	18	19	1,190.8	1.7	13
14	Deutsche Bank	2,001.1	2.3	17	13	1,639.2	2.4	10
15	Nordea	1,665.1	2.0	23	21	919.2	1.3	11
16	BBVA	1,657.8	1.9	11	34	564.4	.8	3
17	NatWest Markets	1,550.9	1.8	7	55	198.9	.3	2
18	Morgan Stanley	1,489.2	1.7	13	22	876.5	1.3	7
19	Natixis	1,476.8	1.7	9	11	1,983.7	2.9	9
20	Mizuho Financial Group	1,408.8	1.7	16	37	486.5	.7	4