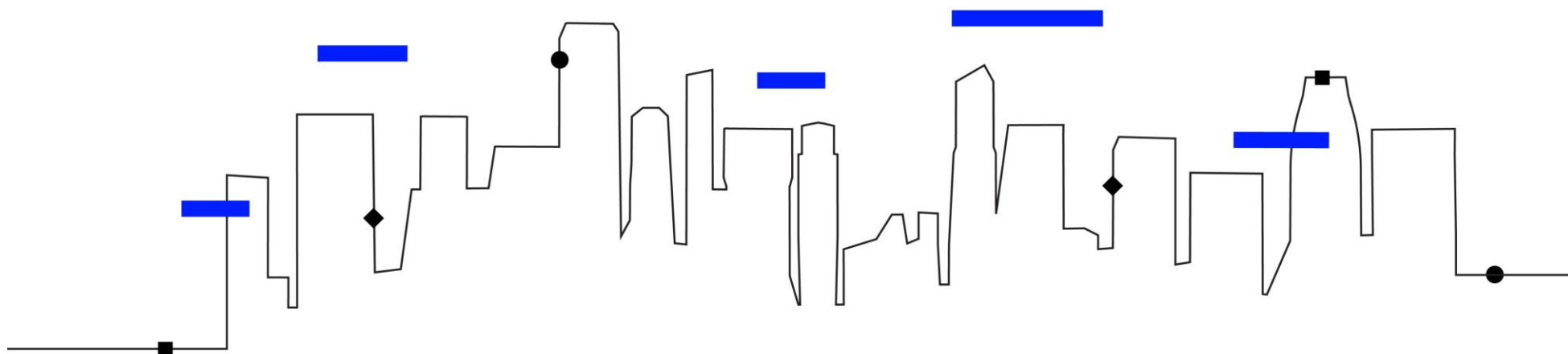


Global Debt Capital Markets Review

FIRST HALF 2022 | MANAGING UNDERWRITERS



Global Debt Capital Markets Review

First Half 2022 | Managing Underwriters

Global Deals Intelligence

GLOBAL DEBT CAPITAL MARKETS ACTIVITY DOWN 14% TO US\$4.8 TRILLION

Overall global debt capital markets activity totaled US\$4.8 trillion during the first half of 2022, down 14% compared to first half 2021 and slowest opening period for DCM activity since the first half of 2019. The number of new offerings brought to market during first half 2022 totaled 14,143, a 7% decline compared to a year ago and a two-year low. DCM issuance during the second quarter of 2022 has decreased 19% compared to the first quarter of this year and decreased 5% by number of issues.

INVESTMENT GRADE CORPORATE DEBT ISSUANCE DOWN 7%

Global Investment Grade corporate debt offerings totaled US\$2.3 trillion during the first half of 2022, a 7% decrease compared to 2021 levels and the slowest first half for global high-grade corporate debt since 2019. Investment Grade debt issuance totaled US\$952.1 billion during the second quarter of 2022, a 29% decline compared to the first quarter of the year and the first sub-US\$1 trillion quarter for new offerings since the fourth quarter of 2020.

GLOBAL HIGH YIELD DEBT FALLS 78% TO 13-YEAR LOW

Global High Yield debt activity during the first half of 2022 totaled US\$91.9 billion, a decrease of 78% compared to the first half of 2021 and the slowest opening half for global high yield issuance since 2009. High yield offerings from issuers in the United States, United Kingdom, Netherlands and Australia accounted for 74% of first half 2022 issuance, up from 70% during the same time last year.

GREEN BONDS ISSUANCE DECLINES 5%; AGENCY & SOVEREIGN DEBT FALLS 5%

According to figures compiled by Refinitiv and The Climate Bonds Initiative, green bond issuance totaled US\$229.0 billion during the first half of 2022, an 5% decrease compared to year ago levels. The second quarter of 2022 marked the sixth consecutive quarter to surpass US\$100 billion. Debt issuance from agency, sovereign and supranational issuers totaled US\$1.6 trillion during the first half of 2022, down 5% from a year ago.

FINANCIALS, GOVERNMENT & AGENCIES ACCOUNT FOR 79% OF GLOBAL ISSUANCE

DCM activity from Financials, Government & Agency issuers accounted for 79% of issuance during the first half of 2022, up from 73% during the first half of 2021. Global debt issuance, excluding financials and governments & agencies, totaled US\$1.0 trillion during the first half of 2022, down 33% compared to 2021 levels and accounted for 22% of overall issuance, down from 28% a year ago.

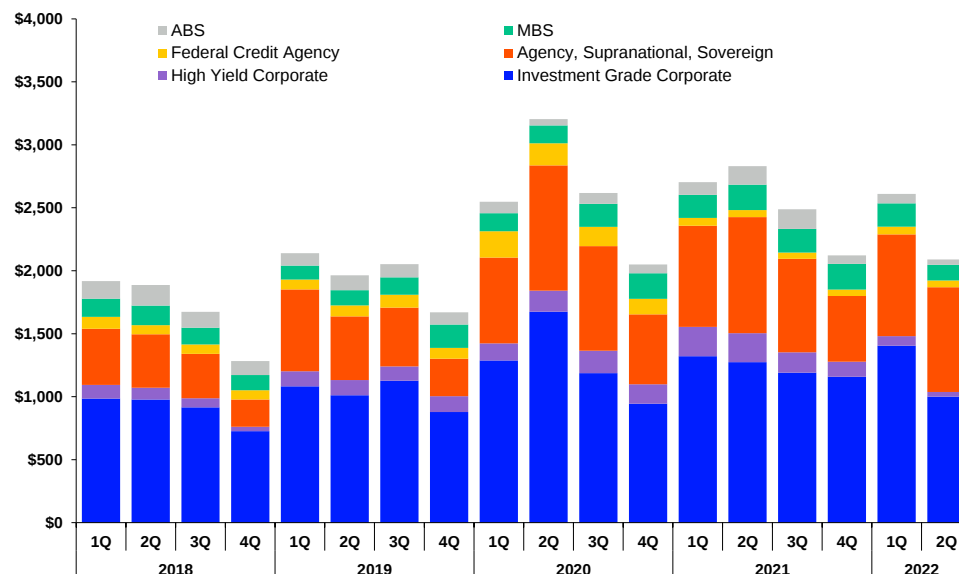
INTERNATIONAL BOND OFFERINGS DOWN 28%; EMERGING MARKETS DOWN 48%

International bond offerings totaled US\$2.2 trillion during the first half of 2022, a 28% decrease compared to a year ago. Debt from emerging market corporate issuers totaled US\$120.0 billion during the first half of 2022, down 48% compared to a year ago. Corporate debt issuers from India, Thailand, Brazil and Malaysia accounted for 61% of emerging markets activity during the first half.

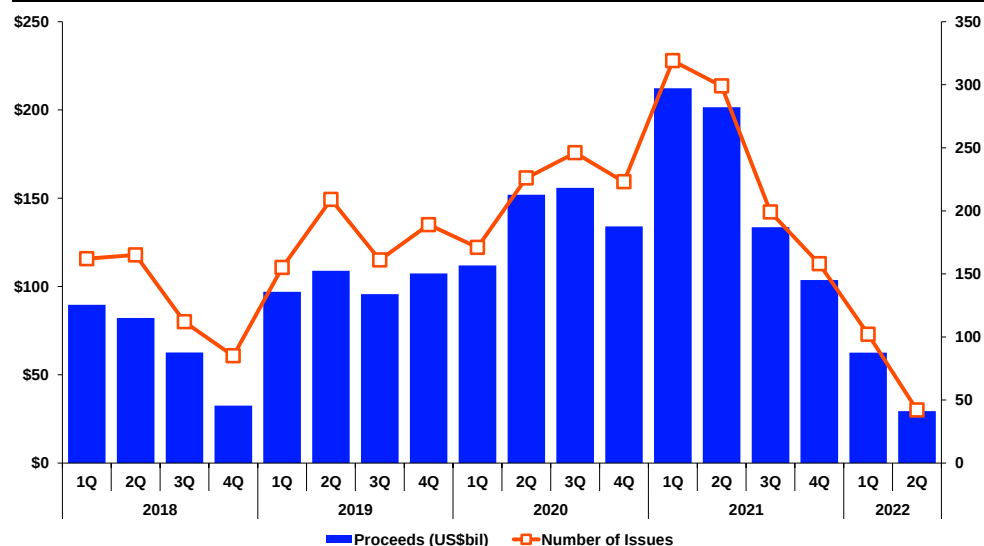
RECORD ASIA LOCAL CURRENCY DEBT; JAPANESE YEN DEBT HITS SIX-YEAR LOW

Asia local currency bond offerings totaled US\$1.9 trillion during the first half of 2022, a 23% increase compared to a year ago and the strongest first half for issuance since records began in 1980. China Yuan offerings have increased 30% compared to a year ago. Japanese Yen offerings have decreased 21% compared to first half 2021, totaling JPY10.1 trillion and a six-year low.

Global Debt Capital Markets - Issue Type Composition (US\$bil)



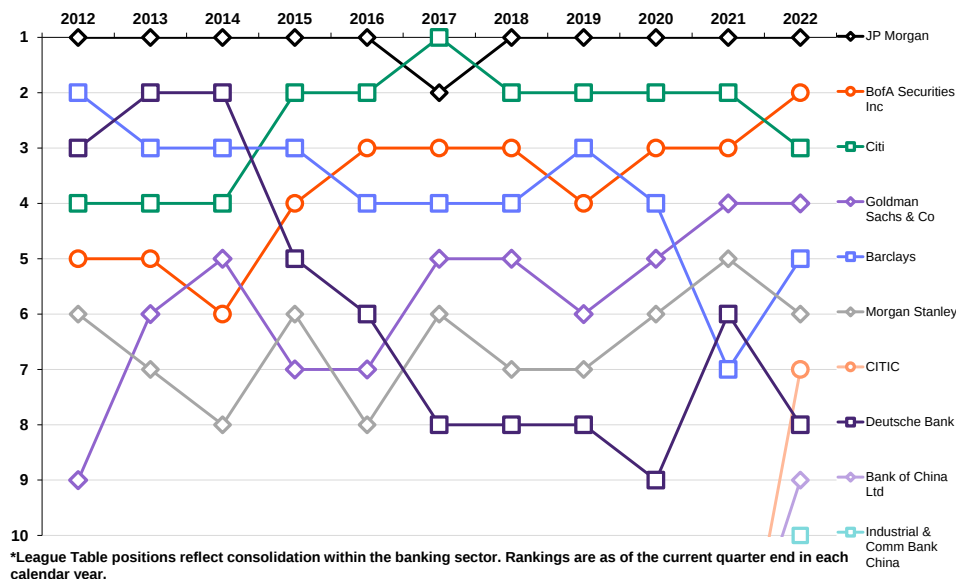
Global High Yield Corporate Debt - Quarterly Issuance



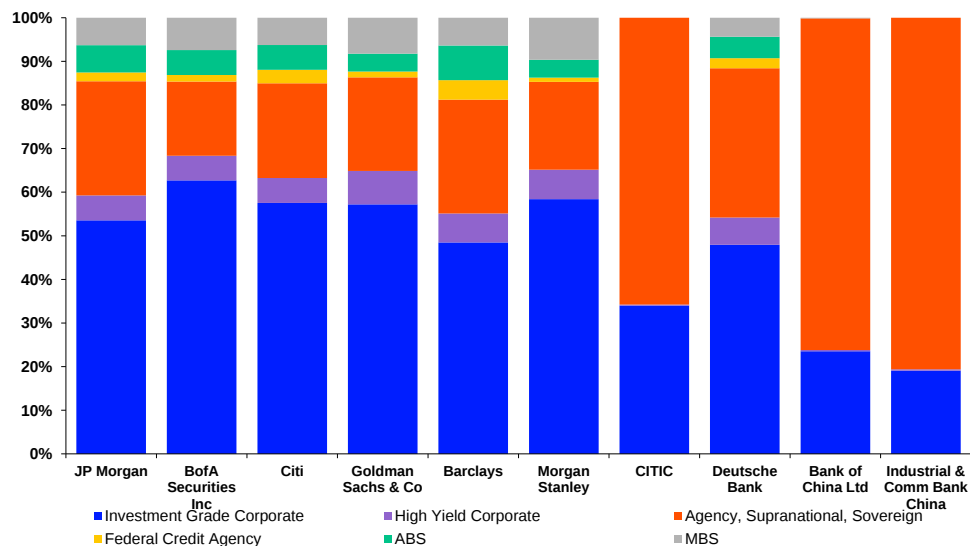
Global Insights

First Half 2022 | Debt Capital Markets | Managing Underwriters

Global Debt Rankings by Proceeds



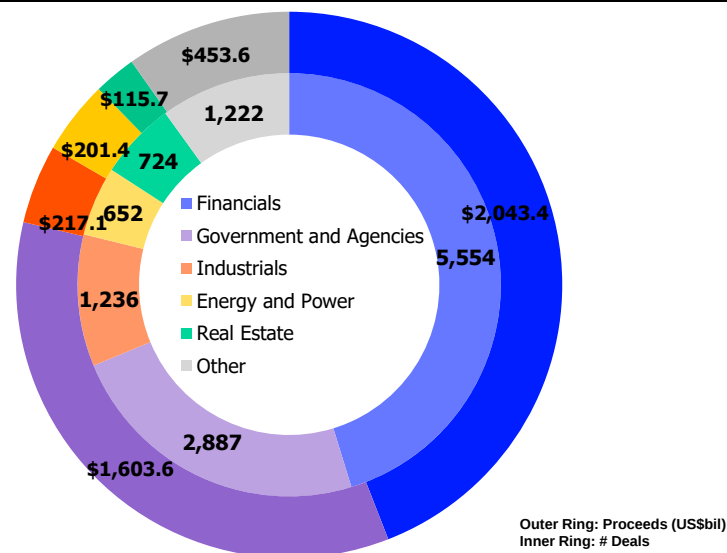
Top 10 Global Debt Bookrunners by Proceeds - Issue Type Composition



Global Scorecard

	1/1/2022 - 6/30/2022		1/1/2021 - 6/30/2021		YoY %
	Proceeds (\$mil)	# of Deals	Proceeds (\$mil)	# of Deals	Chg. (\$)
All Global Debt (B1)	4,818,700	14,143	5,583,344	15,250	-14%
Global Long-term Debt (B2)	4,634,795	12,275	5,365,850	13,493	-14%
Global Long-term Debt ex MBS, ABS & Munis (B3)	4,104,333	11,261	4,732,638	12,339	-13%
Global High Yield Corporate Debt (B4)	91,945	144	413,809	618	-78%
Global Investment Grade Corporate Debt (B7)	2,301,655	7,714	2,468,185	8,390	-7%
US Federal Credit Agency Debt (B8)	68,968	401	66,529	330	4%
Global Agency, Sovereign & Supranational (B9)	1,604,504	2,941	1,685,586	2,833	-5%
Global Mortgage-backed Securities (B10)	310,266	590	385,212	635	-19%
Global Asset-backed Securities (B11)	220,197	424	248,000	519	-11%
Global Short-term Debt (B14)	205,698	1,998	243,984	1,909	-16%
Global Emerging Markets Corporate Debt (B15)	119,869	595	229,649	780	-48%
All US Debt (F1)	1,526,645	2,241	2,020,632	3,070	-24%
US Long-term Debt (F2)	1,455,838	1,379	1,917,498	2,233	-24%
US Long-term Straight ex MBS, ABS & Munis (F3)	1,071,611	1,497	1,479,482	2,210	-28%
US Federal Credit Agency Debt (F7)	61,878	387	57,569	308	7%
US High Yield Corporate Debt (F8)	73,162	101	289,679	394	-75%
US Investment Grade (F9)	737,281	499	827,631	679	-11%
Agency, Sovereign & Supranational Debt (F10)	162,142	475	242,791	728	-33%
US Mortgage-backed Securities (F11)	270,035	460	340,901	509	-21%
US Asset-backed Securities (F14)	184,999	284	200,249	351	-8%
US Taxable Municipal Debt (F15)	19,644	397	24,388	603	-19%
US Short-term Debt - including MBS, ABS (F16)	70,807	862	103,134	837	-31%

Global Debt Capital Markets - Macro Industry Composition



Global Rankings

First Half 2022 | Debt Capital Markets | Managing Underwriters

Global Debt (B1)							
		YoY Change (\$)		-14%		QoQ Change (\$)	
		-19%				-19%	
Bookrunner	Rank 2022	Rank 2021	Proceeds US\$mil	Market Share	Sh. Chg	Mkt. # of Deals	
JP Morgan	1	1	246,108	5.1	-1.4	772	
BofA Securities Inc	2	3	200,571	4.2	-0.4	656	
Citi	3	2	200,246	4.2	-0.7	681	
Goldman Sachs & Co	4	4	161,590	3.4	-0.6	477	
Barclays	5	7	134,702	2.8	-0.4	547	
Morgan Stanley	6	5	134,663	2.8	-1.1	587	
CITIC	7	14	127,300	2.6	0.8	1,938	
Deutsche Bank	8	6	117,819	2.5	-0.8	550	
Bank of China Ltd	9	13	115,529	2.4	0.6	1,791	
Industrial & Comm Bank China	10	16	112,839	2.3	0.6	1,719	
HSBC Holdings PLC	11	9	110,661	2.3	-0.3	545	
BNP Paribas SA	12	8	109,670	2.3	-0.6	467	
China Construction Bank	13	19	105,261	2.2	0.7	1,752	
Wells Fargo & Co	14	11	102,700	2.1	-0.2	463	
Agricultural Bank of China	15	22	95,443	2.0	0.6	1,579	
Bank of Communications Co Ltd	16	23	85,291	1.8	0.5	1,484	
China Securities Co Ltd	17	24	84,690	1.8	0.5	1,293	
Credit Suisse	18	10	81,454	1.7	-0.8	350	
RBC Capital Markets	19	12	80,547	1.7	-0.2	494	
Credit Agricole CIB	20	15	76,380	1.6	-0.1	397	
Huatai Securities Co Ltd	21	33	70,347	1.5	0.7	1,339	
Mizuho Financial Group	22	17	66,657	1.4	-0.2	497	
Societe Generale	23	20	64,224	1.3	-0.2	252	
Nomura	24	18	63,690	1.3	-0.3	311	
China International Capital Co	25	37	62,005	1.3	0.6	1,199	
Industry Total			4,818,700	100.0		14,143	

Global Investment Grade Corporate Debt (B7)							
		YoY Change (\$)		-7%		QoQ Change (\$)	
		-29%				-29%	
Bookrunner	Rank 2022	Rank 2021	Proceeds US\$mil	Market Share	Sh. Chg	Mkt. # of Deals	
JP Morgan	1	1	111,806	4.9	-0.9	349	
BofA Securities Inc	2	2	105,785	4.6	-0.4	338	
Citi	3	3	91,776	4.0	-0.1	322	
Goldman Sachs & Co	4	4	77,590	3.4	-0.2	199	
CITIC	5	7	72,345	3.1	0.6	816	
HSBC Holdings PLC	6	8	65,295	2.8	0.4	332	
Morgan Stanley	7	5	64,106	2.8	-0.7	248	
BNP Paribas SA	8	6	56,440	2.5	-0.1	298	
China Securities Co Ltd	9	13	53,545	2.3	0.4	604	
Barclays	10	9	48,333	2.1	-0.2	210	
Deutsche Bank	11	10	44,917	2.0	-0.2	234	
Wells Fargo & Co	12	12	43,029	1.9	0.0	153	
Mizuho Financial Group	13	11	40,284	1.8	-0.4	252	
Bank of China Ltd	14	18	38,700	1.7	0.2	369	
Credit Agricole CIB	15	17	38,059	1.7	0.2	220	
RBC Capital Markets	16	16	36,444	1.6	0.1	181	
Credit Suisse	17	14	35,266	1.5	-0.2	162	
Guotai Junan Securities	18	22	34,840	1.5	0.3	429	
Societe Generale	19	15	32,974	1.4	-0.1	157	
China International Capital Co	20	24	31,656	1.4	0.3	392	
Industrial & Comm Bank China	21	21	29,546	1.3	0.1	256	
Mitsubishi UFJ Financial Group	22	20	29,401	1.3	0.0	146	
UBS	23	23	29,298	1.3	0.2	154	
Huatai Securities Co Ltd	24	27	28,255	1.2	0.2	339	
Santander Corp & Invest Bkg	25	26	24,966	1.1	0.1	131	
Industry Total			2,301,655	100.0		7,714	

Global Agency, Sovereign Corporate Debt (B9)							
		YoY Change (\$)		-5%		QoQ Change (\$)	
		3%				3%	
Bookrunner	Rank 2022	Rank 2021	Proceeds US\$mil	Market Share	Sh. Chg	Mkt. # of Deals	
Industrial & Comm Bank China	1	5	80,314	5.0	1.4	1,430	
China Construction Bank	2	6	80,251	5.0	1.4	1,428	
Agricultural Bank of China	3	9	76,240	4.8	1.5	1,356	
Bank of China Ltd	4	7	74,729	4.7	1.1	1,385	
Bank of Communications Co Ltd	5	10	66,560	4.2	1.1	1,237	
JP Morgan	6	1	60,300	3.8	-1.2	146	
CITIC	7	21	48,504	3.0	1.2	1,020	
Citi	8	3	45,206	2.8	-1.1	94	
Deutsche Bank	9	2	43,026	2.7	-1.3	139	
Huatai Securities Co Ltd	10	28	40,405	2.5	1.5	965	
Barclays	11	13	37,244	2.3	-0.6	82	
BNP Paribas SA	12	8	36,986	2.3	-1.3	80	
BofA Securities Inc	13	14	34,670	2.2	-0.6	83	
HSBC Holdings PLC	14	4	33,564	2.1	-1.6	107	
Goldman Sachs & Co	15	11	32,975	2.1	-0.9	78	
China International Capital Co	16	47	27,940	1.7	1.3	769	
China Securities Co Ltd	17	24	27,520	1.7	0.5	631	
Industrial Bank Co Ltd	18	22	27,286	1.7	0.2	559	
Morgan Stanley	19	12	27,072	1.7	-1.3	111	
RBC Capital Markets	20	19	24,953	1.6	-0.5	112	
Credit Agricole CIB	21	15	24,237	1.5	-0.9	74	
TD Securities Inc	22	16	23,211	1.5	-0.8	103	
Societe Generale	23	20	21,878	1.4	-0.5	42	
Nomura	24	18	21,617	1.4	-0.7	97	
BMO Capital Markets	25	27	20,063	1.3	0.2	67	
Industry Total			1,604,504	100.0		2,941	

Global MBS (B10)							
		YoY Change (\$)		-19%		QoQ Change (\$)	
		-33%				-33%	
Bookrunner	Rank 2022	Rank 2021	Proceeds US\$mil	Market Share	Sh. Chg	Mkt. # of Deals	
JP Morgan	1	1	36,415	11.7	-2.6	67	
BofA Securities Inc	2	7	33,801	10.9	3.5	80	
Goldman Sachs & Co	3	6	30,743	9.9	1.6	81	
Citi	4	4	29,862	9.6	-1.3	75	
Morgan Stanley	5	3	26,646	8.6	-2.8	84	
Wells Fargo & Co	6	5	25,037	8.1	-0.6	58	
Credit Suisse	7	2	21,975	7.1	-5.2	75	
Barclays	8	9	14,805	4.8	1.0	71	
Nomura	9	8	12,731	4.1	-0.6	36	
Truist Financial Corp	10	49	11,049	3.6	3.5	12	
Mizuho Financial Group	11	11	8,193	2.6	0.5	44	
Deutsche Bank	12	10	6,811	2.2	0.1	41	
Amherst Securities	13	13	6,483	2.1	0.8	17	
BMO Capital Markets	14	14	5,824	1.9	0.7	18	
National Australia Bank	15	15	4,881	1.6	0.6	27	
BNP Paribas SA	16	16	2,634	0.9	0.0	13	
Performance Trust Capital	17	37	2,459	0.8	0.6	21	
Commonwealth Bank of Australia	18	25	1,858	0.6	0.3	14	
Standard Chartered PLC	19	19	1,824	0.6	0.2	14	
Cantor Fitzgerald LP	20	12	1,778	0.6	-0.8	7	
Mitsubishi UFJ Financial Group	21	20	1,744	0.6	0.2	13	
Sumitomo Mitsui Finl Grp Inc	22	18	1,588	0.5	-0.2	16	
HSBC Holdings PLC	23	24	1,487	0.5	0.2	10	
Credit Agricole CIB	24	43	1,475	0.5	0.4	2	
Societe Generale	25	23	1,403	0.5	0.2	5	
Industry Total			310,266	100.0		590	

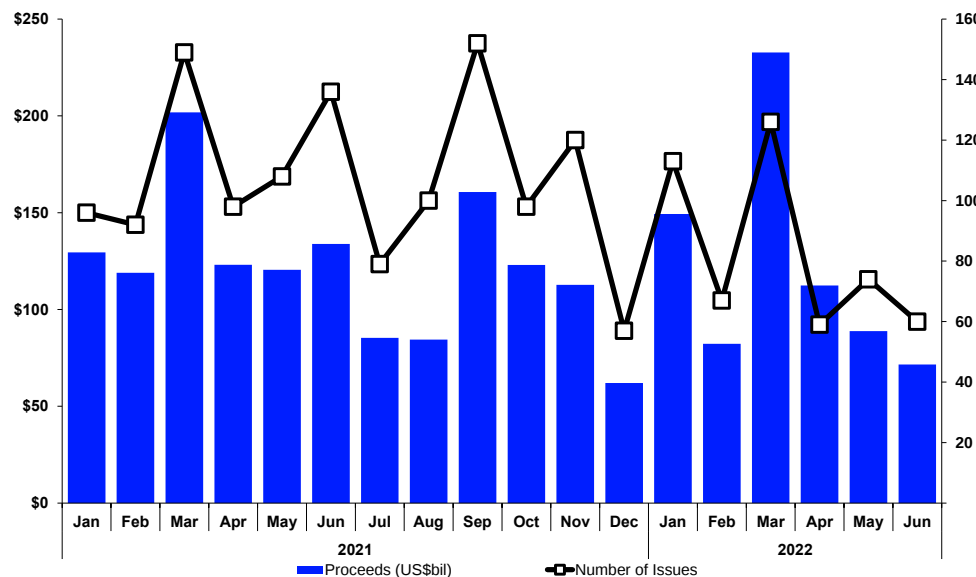
Global ABS (B11)							
		YoY Change (\$)		-11%		QoQ Change (\$)	
		-11%				-11%	
Bookrunner	Rank 2022	Rank 2021	Proceeds US\$mil	Market Share	Sh. Chg	Mkt. # of Deals	
JP Morgan	1	1	19,437	8.8	1.1	68	
Barclays	2	3	16,186	7.4	0.1	64	
BofA Securities Inc	3	5	16,067	7.3	1.2	65	
Citi	4	4	15,417	7.0	0.2	64	
Wells Fargo & Co	5	6	14,963	6.8	1.2	65	
Credit Suisse	6	2	13,815	6.3	-1.0	54	
RBC Capital Markets	7	8	11,638	5.3	0.0	50	
Deutsche Bank	8	7	10,926	5.0	-0.5	54	
Mizuho Financial Group	9	11	10,602	4.8	0.3	79	
Goldman Sachs & Co	10	10	10,066	4.6	0.1	40	
BNP Paribas SA	11	9	8,989	4.1	-1.0	34	
Morgan Stanley	12	12	8,221	3.7	0.0	28	
Jefferies LLC	13	14	7,358	3.3	0.4	27	
Mitsubishi UFJ Financial Group	14	13	6,975	3.2	0.2	27	
Societe Generale	15	16	5,596	2.5	0.4	24	
Credit Agricole CIB	16	20	3,705	1.7	0.3	16	
TD Securities Inc	17	18	3,646	1.7	0.0	16	
Guggenheim Securities LLC	18	19	3,037	1.4	-0.2	9	
Santander Corp & Invest Bkg	19	21	2,845	1.3	0.0	11	
BMO Capital Markets	20	17	2,607	1.2	-0.8	12	
Truist Financial Corp	21	25	2,373	1.1	0.4	14	
Lloyds Bank	22	27	2,089	1.0	0.4	8	
Sumitomo Mitsui Finl Grp Inc	23	23	1,742	0.8	-0.3	10	
UBS	24	-	1,491	0.7	0.7	2	
Sumitomo Mitsui Trust Holdings	25	29	1,143	0.5	0.0	5	
Industry Total			220,197	100.0		424	

Global Debt and Loans Islamic Finance			YoY Change (\$)	-26%	QoQ Change (\$)	-29%
Bookrunner	Rank 2022	Rank 2021	Proceeds US\$mil	Market Share	Sh. Chg	Mkt. # of Deals
Emirates NBD PJSC	1	10	3,170	10.6	6.4	7
CIMB Group Holdings Bhd	2	2	2,815	9.4	1.2	33
HSBC Holdings PLC	3	1	2,347	7.9	-1.1	16
Dubai Islamic Bank PJSC	4	6	2,092	7.0	2.2	8
Malayan Banking Bhd	5	4	1,860	6.2	-0.1	29
Standard Chartered PLC	6	3	1,848	6.2	-1.1	11
Intl Islamic Trade Finance	7	5	1,591	5.3	0.1	4
RHB	8	9	1,519	5.1	0.8	26
Citi	9	8	1,244	4.2	-0.3	5
Kuwait Finance House	10	15	1,224	4.1	2.5	6
Deutsche Bank	11*	-	900	3.0	-	2
Gulf Finance House EC	11*	-	900	3.0	-	1
AMMB Holdings Bhd	13	16	875	2.9	1.4	18
Saudi National Bank SJSC	14	21	456	1.5	0.4	4
First Abu Dhabi Bank PJSC	15	11	320	1.1	-2.6	4
Sumitomo Mitsui Finl Grp Inc	16	38*	319	1.1	0.6	3
Affin Holdings Bhd	17	60	312	1.0	0.8	8
Riyadh Bank Ltd	18*	38*	278	0.9	0.4	2
BofA Securities Inc	18*	-	278	0.9	-	2
Societe Generale	20	19	269	0.9	-0.5	2
Alliance Bank (Malaysia)	21	68	269	0.9	0.8	1
Gulf International Bank	22	14	268	0.9	-0.7	2
Mizuho Financial Group	23	30	266	0.9	0.2	3
Sharjah Islamic Bank PJSC	24	-	264	0.9	-	4
Arab Banking Corporation	25*	53	261	0.9	0.6	2
Industry Total			29,885	100.0		104

United States Insights

First Half 2022 | Debt Capital Markets | Managing Underwriters

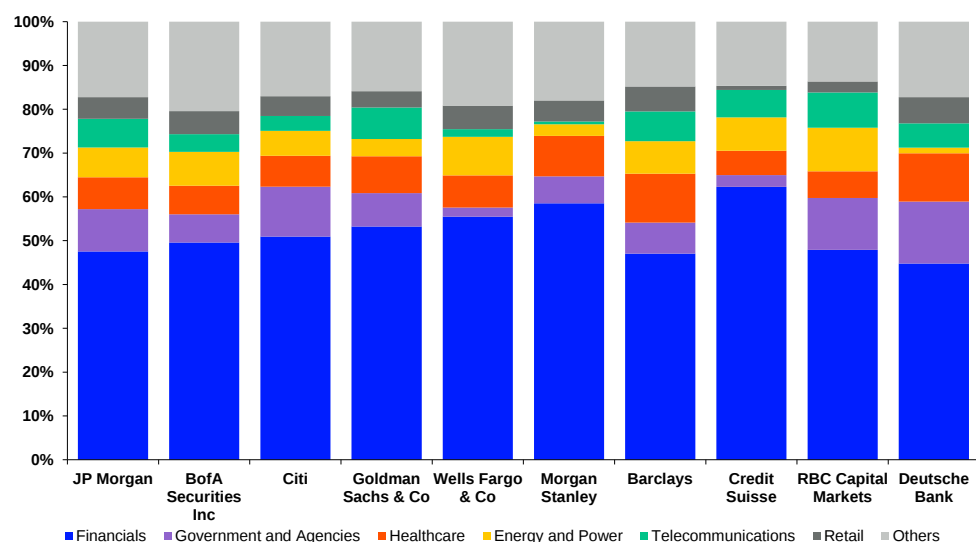
United States Marketed Monthly High Yield Volume



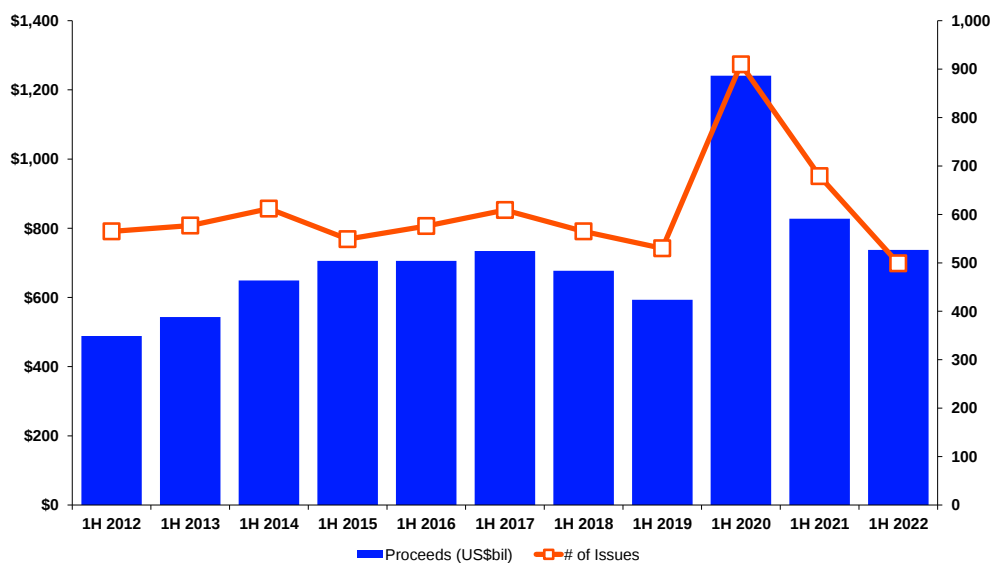
Top United States Investment Grade Corporate Deals

Issue Date	Issuer	Domicile Nation	Deal Size (US\$mil)	Issue Type	Macro Sector
3/9/22	Magallanes Inc	United States	30,000	Investment Grade Corporate	Telecommunications
4/11/22	Amazon.com Inc	United States	12,718	Investment Grade Corporate	Retail
1/19/22	Goldman Sachs Group Inc	United States	12,000	Investment Grade Corporate	Financials
2/1/22	Bank of America Corp	United States	9,000	Investment Grade Corporate	Financials
4/21/22	Bank of America Corp	United States	8,750	Investment Grade Corporate	Financials
4/19/22	JPMorgan Chase & Co	United States	8,500	Investment Grade Corporate	Financials
5/12/22	Intercontinental Exchange Inc	United States	7,965	Investment Grade Corporate	Financials
3/7/22	Rogers Communications Inc	Canada	7,016	Investment Grade Corporate	Telecommunications
4/18/22	Morgan Stanley	United States	7,000	Investment Grade Corporate	Financials
3/21/22	Gsk Consumer Healthcare	United Kingdom	6,967	Investment Grade Corporate	Healthcare
4/18/22	Wells Fargo & Co	United States	6,750	Investment Grade Corporate	Financials
3/31/22	Corebridge Financial Inc	United States	6,494	Investment Grade Corporate	Financials
1/19/22	Morgan Stanley	United States	6,000	Investment Grade Corporate	Financials

Top 10 United States DCM Bookrunners by Proceeds - Macro Industry Composition



United States Investment Grade - Proceeds



United States Rankings

First Half 2022 | Debt Capital Markets | Managing Underwriters

U.S. Debt (F1)							U.S. High Yield Corporate Debt (F8)							U.S. Investment Grade Debt (F9)						
YoY Change (\$)							YoY Change (\$)							YoY Change (\$)						
-24%							-75%							-11%						
QoQ Change (\$)							QoQ Change (\$)							QoQ Change (\$)						
-35%							-50%							-41%						
Bookrunner	Rank 2022	Rank 2021	Proceeds US\$mil	Market Share	Sh. Chg	Mkt. # of Deals	Bookrunner	Rank 2022	Rank 2021	Proceeds US\$mil	Market Share	Sh. Chg	Mkt. # of Deals	Bookrunner	Rank 2022	Rank 2021	Proceeds US\$mil	Market Share	Sh. Chg	Mkt. # of Deals
JP Morgan	1	1	175,175	11.5	-0.8	496	JP Morgan	1	1	7,623	10.4	-0.7	51	JP Morgan	1	1	91,312	12.4	-0.8	240
BofA Securities Inc	2	2	153,289	10.0	0.6	476	Citi	2	4	6,063	8.3	2.3	45	BofA Securities Inc	2	2	88,296	12.0	-0.2	247
Citi	3	3	150,086	9.8	0.5	450	BofA Securities Inc	3	2	5,551	7.6	-1.6	54	Citi	3	3	75,261	10.2	1.2	201
Goldman Sachs & Co	4	4	121,962	8.0	0.8	337	Goldman Sachs & Co	4	5	4,713	6.4	0.5	43	Goldman Sachs & Co	4	4	65,382	8.9	0.9	136
Wells Fargo & Co	5	6	94,992	6.2	0.5	406	Wells Fargo & Co	5	3	3,941	5.4	-0.7	41	Morgan Stanley	5	5	48,278	6.6	-0.6	141
Morgan Stanley	6	5	91,903	6.0	-0.8	329	Credit Suisse	6	7	3,499	4.8	-0.4	30	Wells Fargo & Co	6	6	41,147	5.6	0.3	142
Barclays	7	8	70,022	4.6	-0.1	317	Barclays	7	6	3,343	4.6	-1.2	35	Barclays	7	7	26,459	3.6	-0.3	93
Credit Suisse	8	7	61,148	4.0	-1.3	221	Morgan Stanley	8	8	3,263	4.5	-0.4	29	HSBC Holdings PLC	8	12	25,195	3.4	0.9	64
Deutsche Bank	9	9	49,146	3.2	-0.5	211	Deutsche Bank	9	9	2,517	3.4	-1.4	24	Mitsubishi UFJ Financial Group	9	11	22,001	3.0	0.4	91
RBC Capital Markets	10	10	48,320	3.2	0.3	238	Truist Financial Corp	10	11	1,927	2.6	-0.1	20	RBC Capital Markets	10	14	21,195	2.9	0.5	94
HSBC Holdings PLC	11	13	36,038	2.4	0.3	109	Jefferies LLC	11	12	1,909	2.6	0.0	12	Deutsche Bank	11	8	19,289	2.6	-0.9	71
Mizuho Financial Group	12	11	34,597	2.3	-0.1	169	RBC Capital Markets	12	10	1,795	2.5	-1.9	23	Mizuho Financial Group	12	9	18,702	2.5	-0.7	91
BNP Paribas SA	13	12	31,729	2.1	0.0	145	PNC Financial Services Group	13	22	1,711	2.3	1.2	18	Credit Suisse	13	10	18,217	2.5	-0.2	55
TD Securities Inc	14	14	30,162	2.0	-0.1	142	Mitsubishi UFJ Financial Group	14	15	1,489	2.0	-0.1	22	BNP Paribas SA	14	13	17,058	2.3	-0.2	82
Mitsubishi UFJ Financial Group	15	15	29,981	2.0	0.3	136	BNP Paribas SA	15	14	1,429	2.0	-0.4	17	TD Securities Inc	15	15	13,682	1.9	-0.1	57
BMO Capital Markets	16	17	26,134	1.7	0.3	98	Fifth Third Bancorp	16	21	1,426	2.0	0.8	15	US Bancorp	16	21	12,354	1.7	0.6	67
Truist Financial Corp	17	21	24,073	1.6	0.6	166	HSBC Holdings PLC	17	17	1,326	1.8	0.3	17	Sumitomo Mitsui Finl Grp Inc	17	16	10,971	1.5	-0.3	64
Nomura	18	16	20,514	1.3	-0.3	87	Mizuho Financial Group	18	13	1,119	1.5	-0.9	15	Societe Generale	18	17	8,887	1.2	-0.2	31
Societe Generale	19	20	18,075	1.2	0.2	69	Societe Generale	19	28	1,090	1.5	0.8	8	Credit Agricole CIB	19	20	8,655	1.2	0.0	41
UBS	20	23	16,867	1.1	0.2	57	Capital One Financial Corp	20	33	993	1.4	0.9	7	UBS	20	18	8,516	1.2	0.0	18
Industry Total			1,526,645	100.0		2,241	Industry Total			73,162	100.0		101	Industry Total			737,281	100.0		499

U.S. MBS (F11)							U.S. ABS (F14)							U.S. ABS ex Self & CDOs (F14b)						
YoY Change (\$)							YoY Change (\$)							YoY Change (\$)						
-21%							-8%							3%						
QoQ Change (\$)							QoQ Change (\$)							QoQ Change (\$)						
-33%							-9%							5%						
Bookrunner	Rank 2022	Rank 2021	Proceeds US\$mil	Market Share	Sh. Chg	Mkt. # of Deals	Bookrunner	Rank 2022	Rank 2021	Proceeds US\$mil	Market Share	Sh. Chg	Mkt. # of Deals	Bookrunner	Rank 2022	Rank 2021	Proceeds US\$mil	Market Share	Sh. Chg	Mkt. # of Deals
JP Morgan	1	1	35,576	13.2	-2.9	63	JP Morgan	1	1	18,067	9.8	0.6	64	JP Morgan	1	3	13,038	8.9	0.6	52
BofA Securities Inc	2	7	31,815	11.8	4.2	71	Wells Fargo & Co	2	6	14,963	8.1	1.2	65	Barclays	2	2	12,053	8.2	-0.1	51
Goldman Sachs & Co	3	6	30,350	11.2	2.0	78	Barclays	3	3	14,501	7.8	0.4	58	Citi	3	5	11,547	7.9	1.2	51
Citi	4	3	27,512	10.2	-1.3	62	BofA Securities Inc	4	5	13,152	7.1	0.0	55	Wells Fargo & Co	4	8	10,702	7.3	1.2	49
Wells Fargo & Co	5	5	25,037	9.3	-0.5	58	Credit Suisse	5	2	13,142	7.1	-1.2	52	RBC Capital Markets	5	7	9,619	6.6	0.3	42
Morgan Stanley	6	4	24,231	9.0	-1.9	80	Citi	6	4	12,657	6.8	-0.6	54	Credit Suisse	6	1	9,542	6.5	-2.3	44
Credit Suisse	7	2	21,811	8.1	-5.7	73	RBC Capital Markets	7	7	10,921	5.9	-0.1	45	BofA Securities Inc	7	4	9,208	6.3	-1.1	45
Barclays	8	9	11,676	4.3	0.7	62	Deutsche Bank	8	8	10,131	5.5	0.3	48	Deutsche Bank	8	6	7,050	4.8	-1.7	42
Truist Financial Corp	9	31	11,049	4.1	4.0	12	Goldman Sachs & Co	9	9	10,066	5.4	0.6	40	Mizuho Financial Group	9	9	6,693	4.6	0.2	28
Nomura	10	8	10,215	3.8	-1.1	34	Morgan Stanley	10	11	7,940	4.3	0.9	27	Mitsubishi UFJ Financial Group	10	11	5,836	4.0	0.0	19
Industry Total			270,035	100.0		460	Industry Total			184,999	100.0		284	Industry Total			146,900	100.0		225

U.S. Securitizations (ex CMBS, Agency, CMO, Self-Funded & CDOs) (F20a)							US Residential MBS (F13b)							All Federal Credit Agency Debt (H1)						
YoY Change (\$)							YoY Change (\$)							YoY Change (\$)						
-5%							-29%							10%						
QoQ Change (\$)							QoQ Change (\$)							QoQ Change (\$)						
-9%							-41%							-21%						
Bookrunner	Rank 2022	Rank 2021	Proceeds US\$mil	Market Share	Sh. Chg	Mkt. # of Deals	Bookrunner	Rank 2022	Rank 2021	Proceeds US\$mil	Market Share	Sh. Chg	Mkt. # of Deals	Bookrunner	Rank 2022	Rank 2021	Proceeds US\$mil	Market Share	Sh. Chg	Mkt. # of Deals
Barclays	1	4	16,856	8.8	0.8	89	Credit Suisse	1	2	7,036	15.1	1.8	45	Wells Fargo & Co	1	2	5,978	10.2	1.0	82
Credit Suisse	2	1	16,578	8.7	-1.9	89	Goldman Sachs & Co	2	1	6,633	14.2	0.8	33	Barclays	2	1	5,405	9.2	-2.1	43
Citi	3	3	15,479	8.1	-0.4	62	Morgan Stanley	3	6	5,497	11.8	3.2	37	Citi	3	3	4,815	8.2	-0.4	34
JP Morgan	4	5	14,405	7.6	-0.1	61	Barclays	4	8	5,093	10.9	4.5	39	TD Securities Inc	4	6	4,520	7.7	2.1	38
BofA Securities Inc	5	2	13,508	7.1	-1.7	65	BofA Securities Inc	5	4	4,300	9.2	-1.5	20	Daiwa Securities Group Inc	5	5	3,773	6.4	0.7	54
Wells Fargo & Co	6	6	11,911	6.2	0.0	55	Citi	6	3	3,932	8.4	-4.3	11	Nomura	6	4	2,967	5.1	-2.3	28
Goldman Sachs & Co	7	7	11,330	5.9	0.7	58	Deutsche Bank	7	12	2,354	5.0	3.6	23	Loop Capital Markets	7	12	2,707	4.6	2.0	38
Morgan Stanley	8	12	10,855	5.7	2.7	54	Wells Fargo & Co	8	7	2,304	4.9	-1.8	9	Jefferies LLC	8	15	2,305	3.9	1.7	32
RBC Capital Markets	9	9	9,783	5.1	0.5	43	Performance Trust Capital	9	13	2,283	4.9	4.0	19	JP Morgan	9	9	2,213	3.8	0.2	29
Deutsche Bank	10	8	9,404	4.9	-0.2	65	Nomura	10	5	1,867	4.0	-6.5	16	Academy Securities Inc	10	10	2,127	3.6	0.8	33
Industry Total			190,820	100.0		343	Industry Total			46,683	100.0		125	Industry Total			58,782	100.0		384

*Indicates a Tie

International Debt & ESG Bonds Rankings

First Half 2022 | Debt Capital Markets | Managing Underwriters

All International Bonds (J01)							
		YoY Change (\$)		-28%		QoQ Change (\$)	
						-43%	
Bookrunner	Rank 2022	Rank 2021	Proceeds US\$mil	Market Share	Mkt. Sh Chg	# of Deals	
JP Morgan	1	1	186,948	8.6	-0.2	577	
Citi	2	3	156,784	7.2	0.6	511	
BofA Securities Inc	3	2	156,590	7.2	0.5	511	
Goldman Sachs & Co	4	4	123,986	5.7	0.3	362	
Barclays	5	5	104,060	4.8	-0.2	414	
BNP Paribas SA	6	7	100,648	4.6	-0.3	413	
Morgan Stanley	7	6	95,385	4.4	-0.6	342	
HSBC Holdings PLC	8	9	94,660	4.4	-0.1	406	
Deutsche Bank	9	8	93,010	4.3	-0.6	365	
Credit Agricole CIB	10	10	61,941	2.9	0.0	305	
Societe Generale	11	12	59,558	2.8	0.3	226	
Credit Suisse	12	11	56,183	2.6	-0.2	255	
RBC Capital Markets	13	13	49,525	2.3	0.0	234	
Wells Fargo & Co	14	14	47,198	2.2	-0.1	223	
TD Securities Inc	15	16	37,554	1.7	-0.1	170	
UniCredit	16	15	35,683	1.7	-0.3	139	
Santander Corp & Invest Bkg	17	20	33,872	1.6	0.2	150	
Mitsubishi UFJ Financial Group	18	22	30,813	1.4	0.1	154	
Nomura	19	18	29,645	1.4	-0.3	116	
Mizuho Financial Group	20	17	29,586	1.4	-0.3	195	
NatWest Markets	21	19	29,286	1.4	-0.1	130	
Natixis	22	21	27,725	1.3	-0.1	137	
BMO Capital Markets	23	25	27,133	1.3	0.3	116	
UBS	24	27	25,062	1.2	0.2	111	
Commerzbank AG	25	24	22,738	1.1	0.1	100	
Industry Total			2,166,832	100.0		2,641	

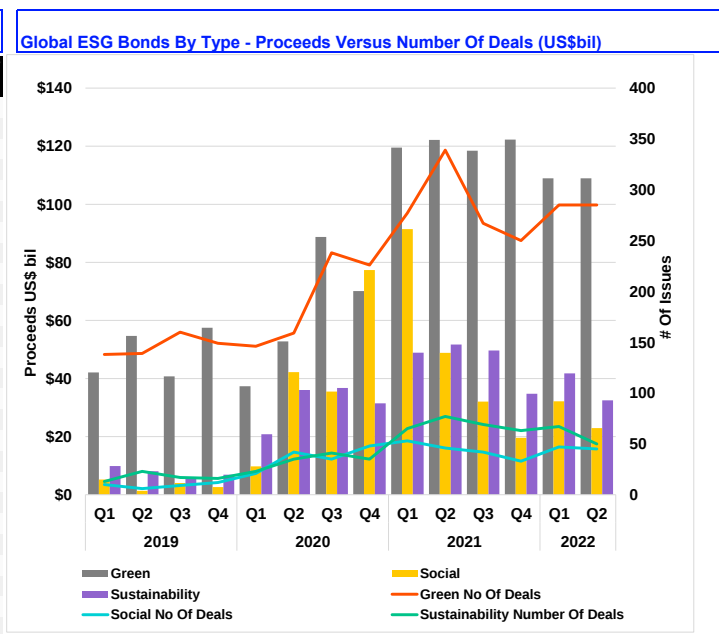
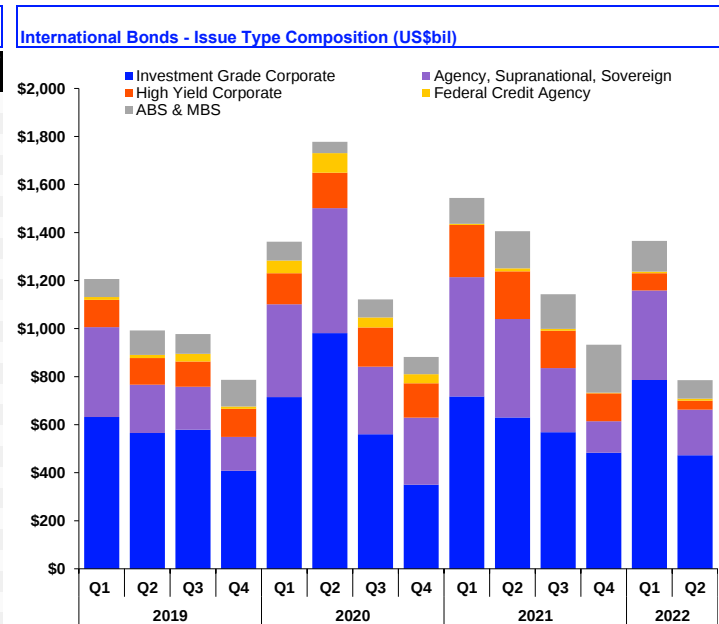
All Global ESG Bonds (GESG1)							
		YoY Change (\$)		-26%		QoQ Change (\$)	
						-4%	
Bookrunner	Rank 2022	Rank 2021	Proceeds US\$mil	Market Share	Mkt. Sh Chg	# of Deals	
BofA Securities Inc	1	7	20,237	5.7	1.2	85	
HSBC Holdings PLC	2	4	19,470	5.4	0.2	95	
JP Morgan	3	2	18,909	5.3	-0.5	87	
BNP Paribas SA	4	1	17,958	5.0	-1.1	93	
Credit Agricole CIB	5	5	15,739	4.4	-0.5	88	
Citi	6	3	14,771	4.1	-1.2	92	
Deutsche Bank	7	6	14,397	4.0	-0.9	72	
Barclays	8	9	12,961	3.6	0.1	53	
Societe Generale	9	8	11,009	3.1	-0.5	40	
Goldman Sachs & Co	10	11	10,331	2.9	-0.6	53	
Morgan Stanley	11	12	10,051	2.8	-0.5	67	
NatWest Markets	12	10	8,631	2.4	-1.1	34	
Natixis	13	13	8,386	2.3	-0.6	37	
Mizuho Financial Group	14	23	6,892	1.9	0.7	73	
Danske Bank	15	20	6,701	1.9	0.4	48	
Nomura	16	16	6,526	1.8	0.0	37	
TD Securities Inc	17	19	6,286	1.8	0.2	29	
ING	18	21	5,952	1.7	0.2	37	
Santander Corp & Invest Bkg	19	22	5,125	1.4	0.0	30	
Bank of China Ltd	20	33	5,016	1.4	0.7	57	
RBC Capital Markets	21	25	4,669	1.3	0.2	28	
Sumitomo Mitsui Finl Grp Inc	22	36	4,622	1.3	0.6	43	
Standard Chartered PLC	23	26	4,416	1.2	0.2	45	
DZ Bank	24	14	4,205	1.2	-0.9	14	
Commerzbank AG	25	18	4,125	1.2	-0.4	18	
Industry Total			358,431	100.0		731	

*Indicates a Tie

All Bonds In Euros (N01)							
		YoY Change (\$)		-20%		QoQ Change (\$)	
						-43%	
Bookrunner	Rank 2022	Rank 2021	Proceeds €mil	Market Share	Mkt. Sh Chg	# of Deals	
BNP Paribas SA	1	1	61,451	8.3	-0.1	220	
JP Morgan	2	2	50,992	6.9	0.1	156	
Deutsche Bank	3	3	44,372	6.0	-0.1	160	
Credit Agricole CIB	4	5	40,996	5.5	0.4	162	
Barclays	5	8	38,796	5.2	0.2	131	
Societe Generale	6	7	38,666	5.2	0.2	151	
HSBC Holdings PLC	7	4	36,622	4.9	-0.4	148	
UniCredit	8	6	31,259	4.2	-0.9	133	
Citi	9	10	31,240	4.2	-0.3	120	
BofA Securities Inc	10	12	29,729	4.0	0.0	101	
Goldman Sachs & Co	11	9	29,440	4.0	-0.7	93	
Morgan Stanley	12	11	23,270	3.1	-1.0	82	
Natixis	13	13	22,642	3.0	0.3	109	
Commerzbank AG	14	14	18,534	2.5	0.2	84	
Santander Corp & Invest Bkg	15	16	18,193	2.4	0.3	88	
ING	16	19	14,951	2.0	0.3	85	
NatWest Markets	17	15	14,843	2.0	-0.2	60	
Landesbank Baden-Wuerttemberg	18	20	14,429	1.9	0.2	85	
DZ Bank	19	17	14,116	1.9	-0.2	67	
Danske Bank	20	24	11,920	1.6	0.6	50	
Nomura	21	21	10,327	1.4	-0.2	24	
Nordea	22	26	8,284	1.1	0.4	34	
UBS	23	25	8,016	1.1	0.4	40	
BBVA	24	22	7,409	1.0	-0.4	37	
TD Securities Inc	25	28	7,079	1.0	0.4	23	
Industry Total			744,616	100.0		775	

All Global Green Bonds (GR01)**							
		YoY Change (\$)		-5%		QoQ Change (\$)	
						10%	
Bookrunner	Rank 2022	Rank 2021	Proceeds US\$mil	Market Share	Mkt. Sh Chg	# of Deals	
BofA Securities Inc	1	7	12,248	5.4	2.0	58	
BNP Paribas SA	2	3	11,580	5.1	-0.9	70	
JP Morgan	3	1	10,568	4.6	-1.6	57	
HSBC Holdings PLC	4	5	10,336	4.5	0.3	63	
Credit Agricole CIB	5	4	9,399	4.1	-1.1	63	
Citi	6	2	8,799	3.8	-2.3	65	
Deutsche Bank	7	6	8,199	3.6	-0.4	51	
Barclays	8	8	6,880	3.0	0.1	31	
NatWest Markets	9	9	5,687	2.5	-0.4	19	
Danske Bank	10	10	5,498	2.4	-0.4	44	
Societe Generale	11	12	5,095	2.2	0.0	25	
Natixis	12	19	5,034	2.2	0.6	28	
Goldman Sachs & Co	13	11	5,003	2.2	-0.3	35	
Bank of China Ltd	14	26	4,704	2.1	1.0	52	
Morgan Stanley	15	16	4,575	2.0	0.3	35	
ING	16	15	4,238	1.9	0.1	29	
DZ Bank	17	18	3,425	1.5	-0.1	12	
CITIC	18	41	3,414	1.5	1.0	52	
Credit Suisse	19	14	3,362	1.5	-0.4	27	
Mizuho Financial Group	20	31	3,020	1.3	0.3	46	
SEB	21	20	3,013	1.3	-0.2	29	
China International Capital Co	22	75	3,010	1.3	1.1	40	
TD Securities Inc	23	21	2,987	1.3	-0.1	15	
UniCredit	24	13	2,986	1.3	-0.7	18	
RBC Capital Markets	25	29	2,752	1.2	0.1	16	
Industry Total			229,033	100.0		523	

**Totals are compiled in partnership with Climate Bonds Initiative; www.climatebonds.net



High Yield Corporate Debt Rankings

First Half 2022 | Debt Capital Markets | Managing Underwriters

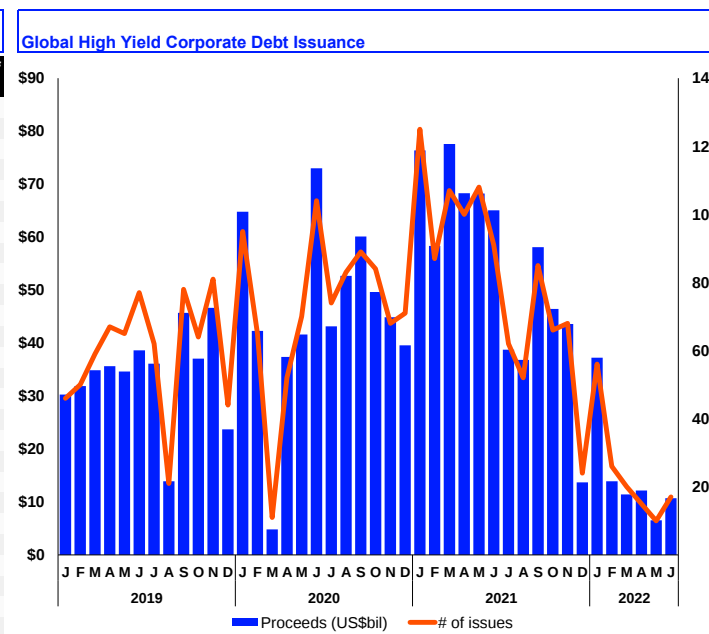
Global High Yield Debt (B4)						
	Rank	Rank	Proceeds	Market	Mkt.	# of
	2022	2021	US\$mil	Share	Sh Chg	Deals
JP Morgan	1	1	8,626	9.4	-0.4	58
Goldman Sachs & Co	2	3	6,828	7.4	1.4	54
Citi	3	6	6,638	7.2	2.1	49
BofA Securities Inc	4	2	6,053	6.6	-1.1	58
Credit Suisse	5	7	4,920	5.4	0.5	38
Barclays	6	4	4,103	4.5	-1.4	43
Deutsche Bank	7	5	4,025	4.4	-1.0	36
Morgan Stanley	8	8	3,951	4.3	-0.3	36
Wells Fargo & Co	9	9	3,941	4.3	-0.1	41
BNP Paribas SA	10	11	2,421	2.6	-0.6	28
RBC Capital Markets	11	10	2,108	2.3	-1.0	25
HSBC Holdings PLC	12	12	2,059	2.2	-0.7	25
Jefferies LLC	13	15	1,938	2.1	0.2	13
Truist Financial Corp	14	14	1,927	2.1	0.2	20
PNC Financial Services Group	15	29	1,711	1.9	1.1	18
Mitsubishi UFJ Financial Group	16	17	1,652	1.8	0.0	23
Fifth Third Bancorp	17	26	1,426	1.6	0.7	15
Societe Generale	18	23	1,407	1.5	0.5	13
Credit Agricole CIB	19	16	1,140	1.2	-0.6	13
Mizuho Financial Group	20	13	1,130	1.2	-0.8	16
Capital One Financial Corp	21	45	993	1.1	0.7	7
Scotiabank	22	30	940	1.0	0.3	11
BMO Capital Markets	23	21	931	1.0	-0.1	12
Citizens Financial Group	24	43	909	1.0	0.6	9
TD Securities Inc	25	19	878	1.0	-0.1	11
Industry Total			91,945	100.0		144

Global High Yield Debt USD Denominated (B5)						
	Rank	Rank	Proceeds	Market	Mkt.	# of
	2022	2021	US\$mil	Share	Sh Chg	Deals
JP Morgan	1	1	7,623	10.2	-0.2	51
Citi	2	3	6,063	8.1	2.4	45
BofA Securities Inc	3	2	5,551	7.4	-1.1	54
Goldman Sachs & Co	4	4	4,863	6.5	1.0	44
Wells Fargo & Co	5	5	3,941	5.3	-0.2	41
Credit Suisse	6	7	3,572	4.8	-0.4	31
Barclays	7	6	3,354	4.5	-1.0	36
Morgan Stanley	8	9	3,273	4.4	-0.3	30
Deutsche Bank	9	8	2,517	3.4	-1.5	24
Truist Financial Corp	10	11	1,927	2.6	0.1	20
Jefferies LLC	11	12	1,909	2.6	0.3	12
RBC Capital Markets	12	10	1,795	2.4	-1.6	23
PNC Financial Services Group	13	24	1,711	2.3	1.3	18
Mitsubishi UFJ Financial Group	14	16	1,489	2.0	0.1	22
BNP Paribas SA	15	14	1,429	1.9	-0.4	17
Fifth Third Bancorp	16	22	1,426	1.9	0.8	15
HSBC Holdings PLC	17	15	1,408	1.9	-0.1	19
Mizuho Financial Group	18	13	1,130	1.5	-0.8	16
Societe Generale	19	28	1,090	1.5	0.8	8
Capital One Financial Corp	20	36	993	1.3	0.8	7
BMO Capital Markets	21	18	931	1.2	-0.1	12
Citizens Financial Group	22	37	909	1.2	0.7	9
TD Securities Inc	23	17	878	1.2	-0.2	11
Scotiabank	24	26	869	1.2	0.3	11
KeyBanc Capital Markets Inc	25	31	791	1.1	0.6	8
Industry Total			74,806	100.0		109

Top High Yield Corporate Deals					
Issue Date	Issuer	Domicile Nation	Proceeds US\$mil	Coupon %	Macro Sector
4/27/22	Carvana Co	United States	3,275.0	10.250	Retail
1/27/22	Intelsat Jackson Holdings SA	United States	3,000.0	6.500	Telecommunications
1/27/22	Athenahealth Inc	United States	2,500.0	6.500	High Technology
1/6/22	VZ Secured Financing B.V.	Netherlands	2,357.0	5.000	Financials
1/12/22	Fertitta Entertainment LLC	United States	2,250.0	6.750	Media and Entertainment
2/3/22	McAfee Corp	United States	2,020.0	7.375	High Technology
6/1/22	Tenet Healthcare Corp	United States	2,000.0	6.125	Healthcare
1/5/22	Ford Motor Credit Co	United States	2,000.0	2.300	Financials
2/10/22	NCL Corp Ltd	Hong Kong	1,600.0	5.875	Industrials
3/30/22	Clydesdale Acq Hldg Inc.	United States	1,542.0	Varies	Materials
1/20/22	Community Health Systems Inc	United States	1,535.0	5.250	Healthcare
4/6/22	FMG Resources(August 2006)Pty	Australia	1,500.0	6.125	Materials

Global High Yield Debt Non-USD Denominated (B6)						
	Rank	Rank	Proceeds	Market	Mkt.	# of
	2022	2021	€mil	Share	Sh Chg	Deals
Goldman Sachs & Co	1	1	1,771	11.5	3.9	12
Deutsche Bank	2	4	1,375	8.9	1.6	13
Credit Suisse	3	10	1,242	8.1	4.3	8
BNP Paribas SA	4	5	894	5.8	-0.5	12
JP Morgan	5	2	883	5.7	-1.8	8
UniCredit	6	9	683	4.4	0.3	6
Barclays	7	3	673	4.4	-3.0	8
Morgan Stanley	8	8	597	3.9	-0.4	8
HSBC Holdings PLC	9	6	592	3.8	-2.1	7
Credit Agricole CIB	10	11	568	3.7	0.1	6
Citi	11	12	518	3.4	0.2	5
BofA Securities Inc	12	7	449	2.9	-2.0	6
Nordea	13	33	424	2.8	2.2	6
NatWest Markets	14	17	358	2.3	0.7	3
IMI - Intesa Sanpaolo	15	18	357	2.3	0.7	5
Natixis	16	16	311	2.0	0.2	5
RBC Capital Markets	17	24	285	1.9	0.9	4
Societe Generale	18	14	283	1.8	-0.2	6
Swedbank	19	-	239	1.6	1.6	3
DNB ASA	20	42	232	1.5	1.2	6
SEB	21	31	218	1.4	0.7	3
UBS	22	29	218	1.4	0.5	2
Lloyds Bank	23	21	215	1.4	0.3	2
Mediobanca	24	27	182	1.2	0.2	2
ING	25	13	178	1.2	-1.7	3
Industry Total			15,415	100.0		37

Global High Yield Debt EURO Denominated (B06b)						
	Rank	Rank	Proceeds	Market	Mkt.	# of
	2022	2021	€mil	Share	Sh Chg	Deals
Goldman Sachs & Co	1	2	1,480	11.1	2.7	11
Deutsche Bank	2	3	1,307	9.8	2.1	13
Credit Suisse	3	10	1,095	8.2	4.3	8
BNP Paribas SA	4	4	894	6.7	-0.3	12
JP Morgan	5	1	808	6.0	-2.4	7
UniCredit	6	7	683	5.1	0.3	6
Morgan Stanley	7	11	597	4.5	0.7	8
Credit Agricole CIB	8	9	568	4.3	0.3	6
Citi	9	12	518	3.9	0.6	5
BofA Securities Inc	10	8	449	3.4	-1.4	6
HSBC Holdings PLC	11	6	382	2.9	-1.9	6
Nordea	12	31	364	2.7	2.1	4
IMI - Intesa Sanpaolo	13	17	357	2.7	0.9	5
Natixis	14	16	311	2.3	0.2	5
Barclays	15	5	307	2.3	-2.7	6
Societe Generale	16	14	283	2.1	-0.1	6
RBC Capital Markets	17	26	217	1.6	0.6	4
Swedbank	18	-	215	1.6	1.6	2
SEB	19	29	194	1.5	0.7	2
Mediobanca	20	24	182	1.4	0.3	2
ING	21	13	178	1.3	-1.9	3
Banca Akros SpA	22	27	169	1.3	0.3	2
KKR & Co Inc	23	71	163	1.2	1.2	1
Nomura	24	25	160	1.2	0.1	2
DNB ASA	25	48	160	1.2	1.0	3
Industry Total			13,361	100.0		32



Emerging Markets Rankings

First Half 2022 | Debt Capital Markets | Managing Underwriters

All International Emerging Market Bonds (L1)

YoY Change (\$) -49% QoQ Change (\$) -44%							
Bookrunner	Rank 2022	Rank 2021	Proceeds US\$m	Market Share	Mkt. Sh. Chg	# of Deals	
Citi	1	3	21,712	9.3	1.3	101	
JP Morgan	2	1	17,878	7.7	-0.5	82	
HSBC Holdings PLC	3	2	15,593	6.7	-1.5	123	
BNP Paribas SA	4	6	10,140	4.4	0.1	64	
Standard Chartered PLC	5	4	9,119	3.9	-1.5	93	
Deutsche Bank	6	9	7,926	3.4	0.5	38	
BofA Securities Inc	7	5	7,743	3.3	-1.4	53	
Barclays	8	12	6,566	2.8	0.8	30	
Goldman Sachs & Co	9	7	6,043	2.6	-1.2	29	
Credit Agricole CIB	10	11	6,014	2.6	0.1	76	
Mizuho Financial Group	11	14	5,774	2.5	0.7	63	
Societe Generale	12	13	5,626	2.4	0.5	35	
Bank of China Ltd	13	16	3,816	1.6	-0.1	81	
Sumitomo Mitsui Finl Grp Inc	14	20	3,806	1.6	0.3	40	
Santander Corp & Invest Bkg	15	17	3,773	1.6	0.0	13	
UBS	16	15	3,677	1.6	-0.1	31	
CITIC	17	21	3,245	1.4	0.2	99	
Mitsubishi UFJ Financial Group	18	18	3,185	1.4	-0.2	25	
DBS Group Holdings	19	19	3,063	1.3	-0.1	49	
Bank of Communications Co Ltd	20	28	3,058	1.3	0.6	60	
Industry Total			232,634	100.0		469	

EMEA Emerging Market Bonds (L2)

YoY Change (\$) -43% QoQ Change (\$) -36%							
Bookrunner	Rank 2022	Rank 2021	Proceeds US\$m	Market Share	Mkt. Sh. Chg	# of Deals	
Citi	1	2	6,455	14.4	5.5	18	
JP Morgan	2	1	5,002	11.2	-1.0	20	
Deutsche Bank	3	12	4,295	9.6	6.8	10	
Goldman Sachs & Co	4	8	3,719	8.3	4.0	11	
BNP Paribas SA	5	3	3,117	7.0	-0.6	10	
HSBC Holdings PLC	6	5	2,603	5.8	0.7	9	
Erste Group	7	15	2,311	5.2	3.2	11	
ING	8	19	2,148	4.8	3.5	6	
Societe Generale	9	6	1,566	3.5	-1.2	5	
Barclays	10	9	1,070	2.4	-1.2	5	
Commerzbank AG	11	41	893	2.0	1.6	4	
Sumitomo Mitsui Finl Grp Inc	12	16	788	1.8	-0.2	5	
Kuwait Finance House	13*	-	750	1.7	1.7	1	
Dubai Islamic Bank PJSC	13*	29	750	1.7	0.9	1	
FirstRand Bank	15	27	743	1.7	0.8	3	
Santander Corp & Invest Bkg	16	35	671	1.5	1.0	4	
Nedbank Capital	17*	-	600	1.3	1.3	1	
Abisa Group Ltd	17*	52	600	1.3	1.2	1	
UniCredit	19	11	593	1.3	-2.3	6	
PKO Bank Polski SA	20	-	452	1.0	1.0	2	
Industry Total			44,831	100.0		47	

Latin America Emerging Market Bonds (L3)

YoY Change (\$) -51% QoQ Change (\$) -81%							
Bookrunner	Rank 2022	Rank 2021	Proceeds US\$m	Market Share	Mkt. Sh. Chg	# of Deals	
Citi	1	2	6,489	16.7	6.4	16	
JP Morgan	2	1	5,641	14.5	1.4	18	
BofA Securities Inc	3	3	3,452	8.9	-1.4	14	
Santander Corp & Invest Bkg	4	4	3,018	7.7	-0.5	7	
Barclays	5	14	2,651	6.8	4.4	5	
Scotiabank	6	12	2,426	6.2	3.8	10	
BBVA	7	9	1,735	4.5	0.8	3	
HSBC Holdings PLC	8	6	1,332	3.4	-4.0	3	
BNP Paribas SA	9	8	1,122	2.9	-0.9	5	
Credit Agricole CIB	10	13	976	2.5	0.1	3	
Goldman Sachs & Co	11	7	960	2.5	-4.5	7	
Mizuho Financial Group	12	18	877	2.3	1.1	3	
Morgan Stanley	13	5	836	2.1	-5.9	7	
Credit Suisse	14	11	831	2.1	-1.2	5	
RBC Capital Markets	15*	22	792	2.0	1.5	2	
BMO Capital Markets	15*	25	792	2.0	1.6	2	
Itau Unibanco	17	10	742	1.9	-1.6	7	
Societe Generale	18	-	709	1.8	1.8	2	
Boustead Securities LLC	19	-	500	1.3	1.3	1	
Truist Financial Corp	20	-	494	1.3	1.3	1	
Industry Total			38,968	100.0		38	

Asia Pacific Emerging Market Bonds (L4)

YoY Change (\$) -41% QoQ Change (\$) -33%							
Bookrunner	Rank 2022	Rank 2021	Proceeds US\$m	Market Share	Mkt. Sh. Chg	# of Deals	
HSBC Holdings PLC	1	1	9,737	7.2	-1.5	98	
Citi	2	2	8,544	6.3	-0.2	64	
Standard Chartered PLC	3	3	8,285	6.1	0.3	82	
JP Morgan	4	4	6,973	5.1	-0.4	41	
BNP Paribas SA	5	6	5,489	4.0	0.3	47	
Credit Agricole CIB	6	10	4,848	3.6	0.6	70	
Mizuho Financial Group	7	16	4,629	3.4	1.2	55	
Bank of China Ltd	8	9	3,686	2.7	-0.4	80	
BofA Securities Inc	9	5	3,573	2.6	-1.4	35	
CITIC	10	14	3,245	2.4	0.0	99	
Industry Total			136,129	100.0		352	

Middle East Emerging Market Bonds (L5)

YoY Change (\$) -75% QoQ Change (\$) -25%							
Bookrunner	Rank 2022	Rank 2021	Proceeds US\$m	Market Share	Mkt. Sh. Chg	# of Deals	
HSBC Holdings PLC	1	1	2,345	12.5	1.8	15	
Citi	2	3	1,523	8.1	-2.3	6	
JP Morgan	3	4	1,442	7.7	-0.8	6	
Standard Chartered PLC	4	2	1,407	7.5	-2.9	10	
First Abu Dhabi Bank PJSC	5	6	1,081	5.8	2.0	9	
Barclays	6	16	977	5.2	3.3	4	
Abu Dhabi Commercial Bank PJSC	7	33	775	4.1	3.6	6	
Credit Suisse	8	11	733	3.9	1.3	4	
Robert W Baird & Co Inc	9*	40*	651	3.5	3.1	3	
Cantor Fitzgerald LP	9*	40*	651	3.5	3.1	3	
Industry Total			18,784	100.0		35	

All Global Debt, by Brazilian Issuers (BR1)

YoY Change (\$) -41% QoQ Change (\$) 54%							
Bookrunner	Rank 2022	Rank 2021	Proceeds US\$m	Market Share	Mkt. Sh. Chg	# of Deals	
Itau Unibanco	1	1	3,457	23.2	7.8	39	
Banco BTG Pactual SA	2	5	1,800	12.1	4.8	12	
Banco Bradesco SA	3	2	974	6.5	-3.0	12	
Mizuho Financial Group	4	19	877	5.9	4.7	3	
XP Investimentos	5	12	837	5.6	3.4	8	
Barclays	6*	15*	792	5.3	4.0	2	
RBC Capital Markets	6*	15*	792	5.3	4.0	2	
BMO Capital Markets	6*	15*	792	5.3	4.0	2	
Santander Corp & Invest Bkg	9	3	640	4.3	-4.6	8	
BofA Securities Inc	10	11	580	3.9	0.7	4	
Industry Total			14,905	100.0		73	

Domestic Brazilian Debt, in Reals (BR2)

YoY Change (\$) 0% QoQ Change (\$) 131%							
Bookrunner	Rank 2022	Rank 2021	Proceeds R\$m	Market Share	Mkt. Sh. Chg	# of Deals	
Itau Unibanco	1	1	20,286	44.7	13.8	41	
Banco BTG Pactual SA	2	2	9,009	19.9	5.3	11	
Banco Bradesco SA	3	5	6,157	13.6	2.9	13	
XP Investimentos	4	10	3,965	8.7	7.0	7	
Santander Corp & Invest Bkg	5	3	2,032	4.5	-7.5	5	
UBS	6	4	1,610	3.6	-7.5	5	
Banco Safra SA	7	9	769	1.7	-1.1	2	
Banco Votorantim	8	6	525	1.2	-3.9	2	
Arab Banking Corporation	9	8	500	1.1	-1.8	1	
Banco Modal	10	-	200	0.4	0.4	1	
Industry Total			45,376	100.0		79	

*Indicates a Tie

Global Debt, Mexican Issuers (MX1)

YoY Change (\$) -52% QoQ Change (\$) -90%							
Bookrunner	Rank 2022	Rank 2021	Proceeds US\$m	Market Share	Mkt. Sh. Chg	# of Deals	
BBVA	1	1	2,159	17.4	5.6	20	
Santander Corp & Invest Bkg	2	3	2,038	16.4	6.5	11	
Barclays	3*	9	1,860	14.9	10.1	3	
BofA Securities Inc	3*	5	1,860	14.9	6.6	3	
Casa de Bolsa Inverlat	5	13	638	5.1	2.7	18	
Scotiabank	6*	-	542	4.4	4.4	3	
JP Morgan	6*	4	542	4.4	-4.5	3	
Citi	8	2	472	3.8	-7.6	6	
Casas de Bolsa Bital, S.A.	9	14	360	2.9	0.8	10	
Industry Total			12,447	100.0		61	

Domestic Mexican Debt (MX3)

YoY Change (\$) -56% QoQ Change (\$) -12%							
Bookrunner	Rank 2022	Rank 2021	Proceeds US\$m	Market Share	Mkt. Sh. Chg	# of Deals	
Casa de Bolsa Inverlat	1	4	638	25.3	14.3	18	
BBVA	2	1	424	16.9	-9.6	17	
Casas de Bolsa Bital, S.A.	3	3	360	14.3	-1.4	10	
Santander Corp & Invest Bkg	4	2	345	13.7	-3.5	9	
Citi	5	5	181	7.2	-0.7	4	
Grupo Financiero Banorte-Ixe	6	6	141	5.6	-0.2	15	
Multibanco Comeremex SNC	7	7	81	3.2	-0.3	2	
Casa De Bolsa ARKA SA de CV	8	18	75	3.0	3.0	6	
Vector Casa de Bolsa SA de CV	9	11	73	2.9	1.7	11	
NatWest Markets	10	-	58	2.3	2.3	1	
Industry Total			2,517	100.0		56	

Asia-Pacific Rankings

First Half 2022 | Debt Capital Markets | Managing Underwriters

Asian G3 Bonds
(ex-Japan & Australia) (AR2) YoY Change (\$) -42% QoQ Change (\$) -33%

Bookrunner	Rank 2022	Rank 2021	Proceeds US\$mil	Market Share	Mkt. Sh Chg	# of Deals
Citi	1	2	9,227	7.1	-0.2	63
Standard Chartered PLC	2	4	7,944	6.1	0.8	75
HSBC Holdings PLC	3	1	7,886	6.0	-2.1	64
JP Morgan	4	3	7,441	5.7	-0.4	35
BofA Securities Inc	5	5	5,457	4.2	-0.1	35
BNP Paribas SA	6	7	4,967	3.8	0.2	41
Deutsche Bank	7	6	4,394	3.4	-0.4	24
Credit Agricole CIB	8	9	4,142	3.2	0.2	55
Mizuho Financial Group	9	16	4,125	3.2	1.1	47
Bank of China Ltd	10	10	3,280	2.5	-0.3	73
CITIC	11	15	3,026	2.3	0.0	94
Morgan Stanley	12	8	2,869	2.2	-1.4	22
Goldman Sachs & Co	13	11	2,775	2.1	-0.6	11
DBS Group Holdings	14	14	2,708	2.1	-0.4	43
UBS	15	13	2,693	2.1	-0.5	22
China International Capital Co	16	17	2,689	2.1	0.1	83
Industrial Bank Co Ltd	17	32	2,644	2.0	1.1	92
Societe Generale	18	25	2,143	1.6	0.2	16
Sumitomo Mitsui Finl Grp Inc	19	27	2,131	1.6	0.4	28
Mitsubishi UFJ Financial Group	20	21	2,068	1.6	0.0	17
Industrial & Comm Bank China	21	20	2,013	1.5	-0.1	55
China Construction Bank	22	28	1,899	1.5	0.3	45
Nomura	23	31	1,833	1.4	0.5	10
Bank of Communications Co Ltd	24	23	1,830	1.4	0.0	56
Agricultural Bank of China	25	29	1,730	1.3	0.3	52
Industry Total			130,528	100.0		269

All Asian Currencies
(ex Japan & Australia) (AS1) YoY Change (\$) 23% QoQ Change (\$) 16%

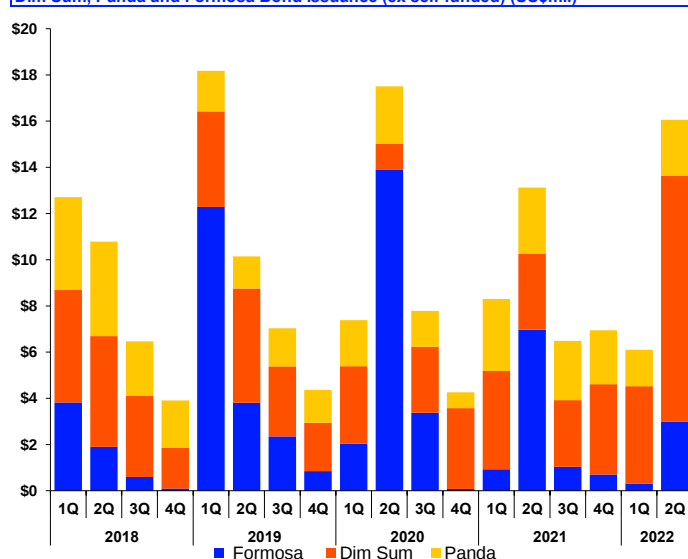
Bookrunner	Rank 2022	Rank 2021	Proceeds US\$mil	Market Share	Mkt. Sh Chg	# of Deals
CITIC	1	1	124,000	6.7	0.5	1,843
Bank of China Ltd	2	2	110,012	5.9	-0.2	1,709
Industrial & Comm Bank China	3	3	109,840	5.9	0.0	1,656
China Construction Bank	4	4	103,307	5.6	0.2	1,709
Agricultural Bank of China	5	5	93,669	5.0	0.1	1,531
China Securities Co Ltd	6	6	83,730	4.5	-0.1	1,258
Bank of Communications Co Ltd	7	7	83,480	4.5	0.0	1,431
Huatai Securities Co Ltd	8	9	69,541	3.7	0.8	1,310
China International Capital Co	9	11	59,142	3.2	1.0	1,112
Guotai Junan Securities	10	10	52,711	2.8	0.2	849
Industrial Bank Co Ltd	11	8	50,099	2.7	-0.4	893
China Merchants Bank	12	12	42,368	2.3	0.2	650
Orient Securities Co Ltd	13	18	27,926	1.5	0.3	416
Shanghai Pudong Development Bk	14	15	27,652	1.5	0.0	523
Haitong Securities Co Ltd	15	13	27,028	1.5	-0.3	449
Everbright Securities Co Ltd	16	17	26,090	1.4	0.1	688
Postal Savings Bank Of China	17	14	23,927	1.3	-0.5	432
China Galaxy Securities Co	18	33	22,783	1.2	0.6	494
China Dvlp Bank Sec Co Ltd	19	54	22,595	1.2	0.9	481
China Minsheng Banking Corp	20	16	22,250	1.2	-0.3	406
China Everbright Bank	21	26	22,001	1.2	0.4	307
Bank of Beijing	22	35	18,302	1.0	0.4	227
Shenwan Hongyuan Securities Co	23	21	16,797	0.9	-0.2	262
China Merchants Securities Co	24	20	16,380	0.9	-0.2	192
HSBC Holdings PLC	25	28	15,048	0.8	0.1	219
Industry Total			1,858,992	100.0		8,136

*Indicates a Tie

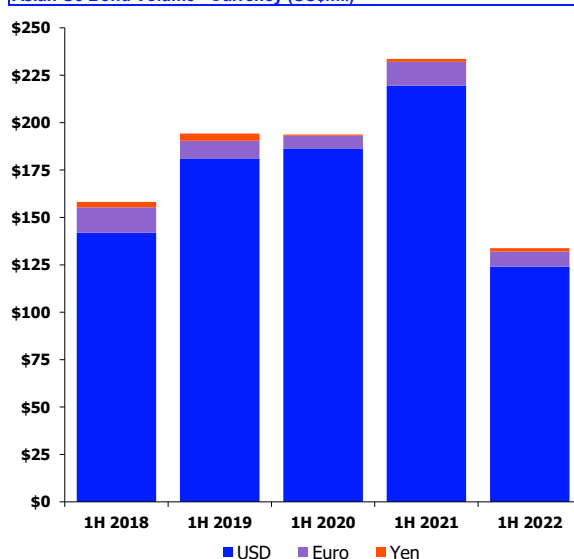
Asian G3 High Yield Bonds
(ex Japan & Australia) (AR10) YoY Change (\$) -91% QoQ Change (\$) -87%

Bookrunner	Rank 2022	Rank 2021	Proceeds US\$mil	Market Share	Mkt. Sh Chg	# of Deals
Deutsche Bank	1	1	332	13.1	5.7	3
Barclays	2	18	255	10.0	8.0	3
JP Morgan	3	9	245	9.6	5.9	2
DBS Group Holdings	4	25	188	7.4	6.3	1
Arctic Securities ASA	5*	-	150	5.9	5.9	1
Pareto AS	5*	-	150	5.9	5.9	1
Goldman Sachs & Co	5*	24	150	5.9	4.5	1
HSBC Holdings PLC	8	3	140	5.5	-0.9	3
Credit Suisse	9	6	130	5.1	0.1	2
Bank of Communications Co Ltd	10	15	98	3.9	1.5	2
Industrial & Comm Bank China	11*	26	88	3.4	2.4	1
Bank of China Ltd	11*	14	88	3.4	1.0	1
Standard Chartered PLC	13	8	68	2.7	-1.2	2
Axis Bank Ltd	14	-	57	2.3	2.3	1
Shanghai Pudong Development Bk	15*	63*	40	1.6	1.5	2
CITIC	15*	2	40	1.6	-5.0	2
China International Capital Co	17*	10	30	1.2	-2.0	1
China Minsheng Banking Corp	17*	17	30	1.2	-0.9	1
China Everbright Bank	17*	50	30	1.2	1.0	1
Industrial Bank Co Ltd	17*	56	30	1.2	1.0	1
BOSC International Co Ltd	17*	48	30	1.2	1.0	1
Cntrl Wealth Sec Invest Ltd	17*	28	30	1.2	0.3	1
China Industrial Sec Intl	17*	79*	30	1.2	1.1	1
Shenwan Hongyuan Securities Co	17*	-	30	1.2	1.2	1
Industry Total			2,540	100.0		8

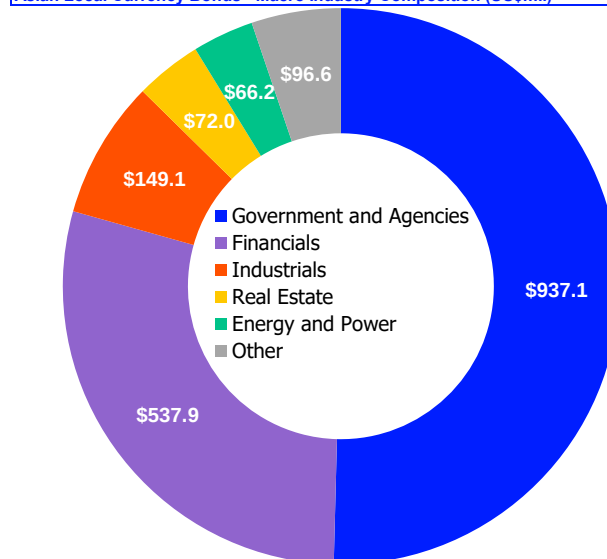
Dim Sum, Panda and Formosa Bond Issuance (ex self-funded) (US\$mil)



Asian G3 Bond Volume - Currency (US\$mil)



Asian Local Currency Bonds - Macro Industry Composition (US\$mil)



Australia & China Rankings

First Half 2022 | Debt Capital Markets | Managing Underwriters

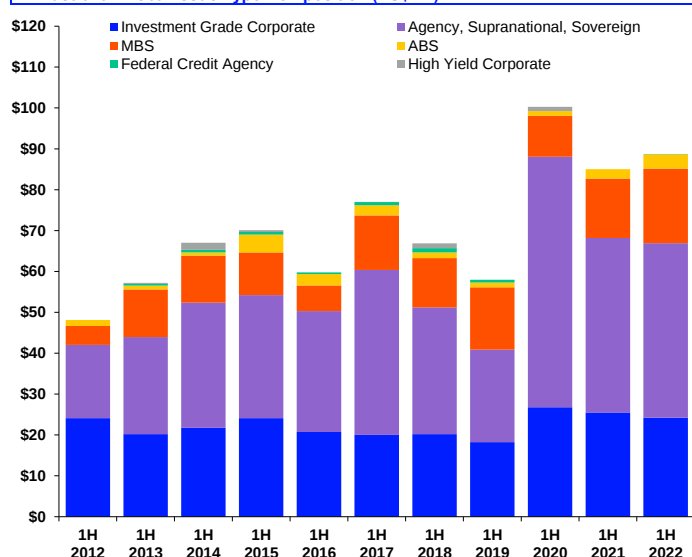
All Australian Debt (ex self-funded) (AJ3a)

	Rank	Rank	Proceeds	Market	Mkt.	# of
	2022	2021	AU\$mil	Share	Sh Chg	Deals
Bookrunner						
National Australia Bank	1	2	17,321	19.5	6.9	56
Commonwealth Bank of Australia	2	1	13,279	15.0	0.5	44
ANZ Banking Group	3	4	10,691	12.1	0.4	45
Westpac Banking	4	3	9,333	10.5	-2.0	50
Deutsche Bank	5	6	6,899	7.8	-0.2	22
UBS	6	5	6,449	7.3	-1.0	19
RBC Capital Markets	7	8	3,099	3.5	-0.3	21
JP Morgan	8	11	2,687	3.0	0.6	14
TD Securities Inc	9	9	2,677	3.0	-0.6	22
Nomura	10	10	2,336	2.6	-0.8	15
Citi	11	7	1,279	1.4	-2.4	9
Sumitomo Mitsui Finl Grp Inc	12	16	1,192	1.3	-0.2	6
United Overseas Bank Ltd	13	-	1,169	1.3	1.3	5
BofA Securities Inc	14	13	981	1.1	-0.7	6
Daiwa Securities Group Inc	15	32	891	1.0	0.9	9
Barclays	16	31	859	1.0	0.9	6
Standard Chartered PLC	17	12	842	1.0	-0.8	6
Macquarie Group	18	14	830	0.9	-0.6	4
Morgans Financial Ltd	19	23	622	0.7	0.3	3
Mitsubishi UFJ Financial Group	20	18	608	0.7	-0.6	4
Industry Total			88,743	100.0		136

All Australian International Bonds (AJ7)

	Rank	Rank	Proceeds	Market	Mkt.	# of
	2022	2021	US\$mil	Share	Sh Chg	Deals
Bookrunner						
Citi	1	1	5,049	11.3	-4.8	11
HSBC Holdings PLC	2	4	4,557	10.2	2.1	16
BofA Securities Inc	3	2	4,193	9.4	-0.3	9
JP Morgan	4	5	3,792	8.5	1.1	6
National Australia Bank	5	8	2,692	6.0	2.0	8
RBC Capital Markets	6	9	2,464	5.5	1.7	6
Commonwealth Bank of Australia	7	16	1,995	4.5	2.6	6
BNP Paribas SA	8	7	1,606	3.6	-1.7	7
TD Securities Inc	9	18	1,463	3.3	1.8	5
Barclays	10	17	1,412	3.2	1.5	6
Morgan Stanley	11	3	1,384	3.1	-5.8	3
Goldman Sachs & Co	12	6	1,383	3.1	-2.4	4
Westpac Banking	13	10	1,368	3.1	-0.4	5
UBS	14	14	1,316	3.0	0.5	7
Societe Generale	15	19	1,311	2.9	1.9	5
Credit Suisse	16	15	1,283	2.9	0.9	5
ANZ Banking Group	17	21	835	1.9	0.9	3
Deutsche Bank	18	13	781	1.8	-0.7	3
Standard Chartered PLC	19	28*	738	1.7	1.3	2
NatWest Markets	20	20	727	1.6	0.6	3
Industry Total			44,553	100.0		45

All Australian Debt - Issue Type Composition (AU\$mil)



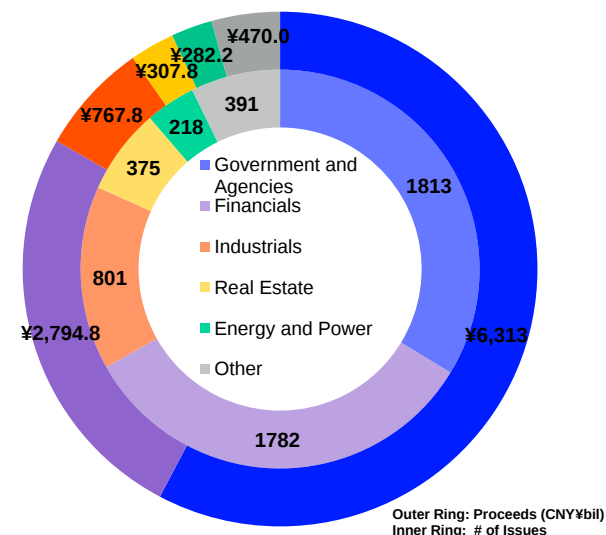
China G3 Currency Bonds (AR5)

	Rank	Rank	Proceeds	Market	Mkt.	# of
	2022	2021	US\$mil	Share	Sh Chg	Deals
Bookrunner						
CITIC	1	3	2,447	5.8	1.3	77
Industrial Bank Co Ltd	2	23	2,253	5.3	3.4	81
China International Capital Co	3	5	2,238	5.3	1.0	69
Bank of China Ltd	4	4	1,945	4.6	0.3	54
Standard Chartered PLC	5	9	1,449	3.4	0.1	31
China Construction Bank	6	19	1,425	3.4	1.1	31
Industrial & Comm Bank China	7	12	1,341	3.2	0.1	39
Guotai Junan Securities	8	7	1,297	3.1	-0.8	48
China Merchants Bank	9	17	1,289	3.1	0.4	40
Haitong Securities Co Ltd	10	11	1,286	3.0	-0.2	56
Shanghai Pudong Development Bk	11	25	1,271	3.0	1.4	45
Bank of Communications Co Ltd	12	14	1,253	3.0	0.1	40
Citi	13	8	1,247	3.0	-0.9	20
Agricultural Bank of China	14	21	1,246	2.9	0.9	37
HSBC Holdings PLC	15	2	1,183	2.8	-2.2	25
Credit Agricole CIB	16	26	1,172	2.8	1.3	23
China Minsheng Banking Corp	17	16	1,160	2.7	0.0	43
BNP Paribas SA	18	20	908	2.2	0.0	13
DBS Group Holdings	19	24	902	2.1	0.5	24
Deutsche Bank	20	18	817	1.9	-0.6	9
Industry Total			42,315	100.0		148

Chinese Yuan Bonds (ex-Self Funded) (AS24)

	Rank	Rank	Proceeds	Market	Mkt.	# of
	2022	2021	CNYmil	Share	Sh Chg	Deals
Bookrunner						
CITIC	1	1	803,660	7.4	0.2	1,838
Industrial & Comm Bank China	2	3	716,211	6.6	-0.2	1,652
Bank of China Ltd	3	2	705,527	6.5	-0.4	1,702
China Construction Bank	4	4	672,615	6.2	0.0	1,704
Agricultural Bank of China	5	5	610,764	5.6	-0.1	1,527
Bank of Communications Co Ltd	6	7	544,145	5.0	-0.2	1,428
China Securities Co Ltd	7	6	543,181	5.0	-0.3	1,258
Huatai Securities Co Ltd	8	9	453,269	4.1	0.7	1,310
China International Capital Co	9	11	384,411	3.5	1.0	1,110
Guotai Junan Securities	10	10	342,295	3.1	0.1	848
Industrial Bank Co Ltd	11	8	325,583	3.0	-0.6	890
China Merchants Bank	12	12	274,777	2.5	0.1	647
Orient Securities Co Ltd	13	18	181,530	1.7	0.3	416
Shanghai Pudong Development Bk	14	15	180,137	1.7	-0.1	520
Haitong Securities Co Ltd	15	13	174,459	1.6	-0.5	449
Everbright Securities Co Ltd	16	17	170,499	1.6	0.1	688
Postal Savings Bank Of China	17	14	155,479	1.4	-0.7	432
China Galaxy Securities Co	18	27	148,147	1.4	0.7	494
China Dvlp Bank Sec Co Ltd	19	43	146,962	1.3	0.9	481
China Minsheng Banking Corp	20	16	144,251	1.3	-0.4	404
Industry Total			10,936,064	100.0		5,380

Chinese Yuan Bonds - Macro Industry Composition



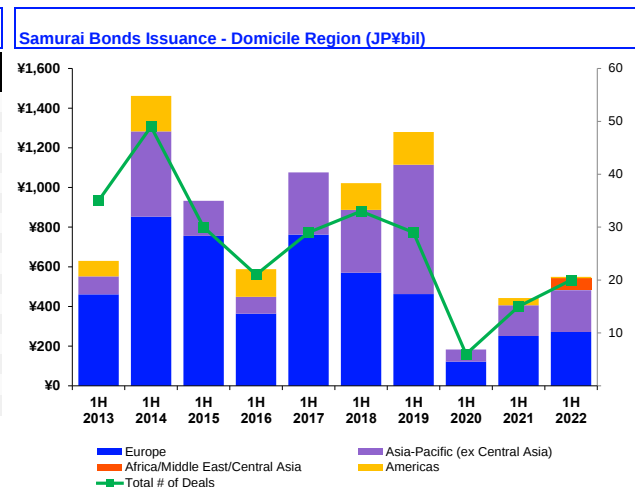
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Japan Rankings

First Half 2022 | Debt Capital Markets | Managing Underwriters

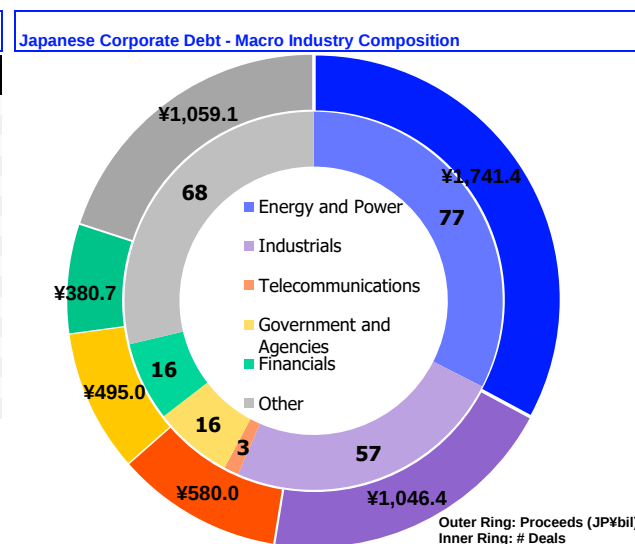
All Bonds in Yen (AP05)						
			YoY Change (¥)	-21%	QoQ Change (¥)	27%
Lead Manager	Rank 2022	Rank 2021	Proceeds JPY¥bil	Market Share	Mkt. Sh. Chg	# of Deals
Mizuho Financial Group	1	1	2,558	25.4	3.3	340
Nomura	2	2	2,104	20.9	3.1	289
Daiwa Securities Group Inc	3	5	1,586	15.7	0.3	222
Mitsubishi UFJ Morgan Stanley	4	4	1,579	15.7	0.3	222
Sumitomo Mitsui Finl Grp Inc	5	3	787	7.8	-8.6	103
Mitsubishi UFJ Financial Group	6	7	294	2.9	0.9	18
Tokai Tokyo Financial Holdings	7	10	187	1.9	0.8	59
Sumitomo Mitsui Trust Holdings	8	6	179	1.8	-0.2	17
Barclays	9	11	140	1.4	0.5	12
Goldman Sachs & Co	10	9	119	1.2	0.1	14
Shinkin Central Bank	11	15	96	1.0	0.5	32
BofA Securities Inc	12	8	85	0.9	-0.3	7
SBI Holdings Inc	13	16	58	0.6	0.2	7
Norinchukin Bank	14	12	49	0.5	-0.4	2
JP Morgan	15	13	43	0.4	-0.3	1
Industry Total			10,075	100.0		558

Samurai Bonds (AP01)						
			YoY Change (¥)	24%	QoQ Change (¥)	71%
Lead Manager	Rank 2022	Rank 2021	Proceeds JPY¥bil	Market Share	Mkt. Sh. Chg	# of Deals
Sumitomo Mitsui Finl Grp Inc	1	1	173	31.4	-31.4	10
Mitsubishi UFJ Morgan Stanley	2	5*	134	24.4	20.6	10
Nomura	3*	3*	94	17.1	7.6	10
Mizuho Financial Group	3*	3*	94	17.1	7.6	10
Daiwa Securities Group Inc	5	2	55	10.1	-0.5	9
Industry Total			549	100.0		20



Japanese Securitizations (AP02)						
			YoY Change (¥)	-19%	QoQ Change (¥)	-43%
Lead Manager	Rank 2022	Rank 2021	Proceeds JPY¥bil	Market Share	Mkt. Sh. Chg	# of Deals
Mizuho Financial Group	1	1	668	30.0	1.2	83
Mitsubishi UFJ Financial Group	2	6	294	13.2	5.4	18
Mitsubishi UFJ Morgan Stanley	3	2	227	10.2	-2.9	6
Nomura	4	5	216	9.7	0.8	5
Sumitomo Mitsui Trust Holdings	5	4	179	8.0	-1.4	17
Daiwa Securities Group Inc	6	7	141	6.3	0.3	4
Sumitomo Mitsui Finl Grp Inc	7	3	128	5.8	-5.2	14
Barclays	8	12	103	4.6	2.6	5
Goldman Sachs & Co	9	11	58	2.6	0.3	2
Norinchukin Bank	10	8	49	2.2	-1.8	2
Resona Holdings Inc	11	14	43	1.9	1.7	1
BNP Paribas SA	12	9	41	1.8	-1.3	2
Shizuoka Bank Ltd	13	-	40	1.8	1.8	1
BofA Securities Inc	14	10	33	1.5	-1.0	1
ORIX Corp	15	13	5	0.2	-0.5	2
Industry Total			2,228	100.0		146

Japanese Corporate Debt (AP03)						
			YoY Change (¥)	-22%	QoQ Change (¥)	57%
Lead Manager	Rank 2022	Rank 2021	Proceeds JPY¥bil	Market Share	Mkt. Sh. Chg	# of Deals
Mizuho Financial Group	1	1	1,468	27.7	5.6	190
Nomura	2	2	1,287	24.3	2.3	185
Daiwa Securities Group Inc	3	3	1,064	20.1	-0.2	148
Mitsubishi UFJ Morgan Stanley	4	4	884	16.7	-0.1	129
Sumitomo Mitsui Finl Grp Inc	5	5	286	5.4	-9.8	39
Tokai Tokyo Financial Holdings	6	6	110	2.1	1.2	41
Shinkin Central Bank	7	7	84	1.6	0.8	29
SBI Holdings Inc	8	8	51	1.0	0.2	4
Rakuten Securities Inc	9	-	30	0.6	0.6	1
Okasan Securities Group Inc	10	10	19	0.4	0.1	9
BofA Securities Inc	11	9	10	0.2	-0.2	5
Citi	12	11	6	0.1	-0.1	1
Goldman Sachs & Co	13	12	5	0.1	0.0	3
Industry Total			5,303	100.0		237



*Indicates a Tie

Debt Capital Markets Criteria

First Half 2022 | Managing Underwriters

If you would like to participate in the submission process, receive quarterly press releases, or have questions about our full league table criteria please contact:

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Database coverage includes all US public, Euro public and Rule 144a fee-eligible global debt transactions (including Global bonds, Euro/144a transactions, Yankee Bonds, Eurobonds, Foreign Bonds and preferred stock) as well as MBS, ABS & Taxable Munis.

Transactions must be received within 5 business days of pricing for league table accreditation. (Rule 144a transactions sold exclusively in the US market, MBS, ABS transactions in all markets and all Federal Credit Agency transactions must be received within 5 business days of settlement.) Transactions not received by the applicable deadline are entered into the database but classified as rank ineligible and are not included in league tables for the current calendar year.

All league tables are based on deal proceeds (total issue amount multiplied by the issue price) unless otherwise stated; and current data and previous year's data is as of 9:00am EST on June 30, 2022.

Full credit is given to the bookrunner, equal if joint books. In cases of underwriter consolidation, credit is given to the surviving/parent firm. Non-US dollar denominated transactions are converted to the US dollar equivalent at the time of announcement.

Long-term league tables exclude deals with a minimum life of less than 1.5 years (or 18 months), except for Asian local currency denominated bonds and all securitized tranches, which require a minimum life of more than 360 days. Minimum life is defined as the difference between the settlement date and the earliest maturity date or first call/put option.

US marketplace league tables include US dollar denominated domestic, Yankee, Global and Euro/144a bond and preferred stock transactions. Global bond league tables include domestic, foreign, Global, Euromarket and Euro/144a bond and preferred stock transactions issued in any currency. League table volumes for Mitsubishi UFJ Financial Group and Morgan Stanley, included herein, reflect changes after the commencement of their jointly established securities firms in Japan: (1) Mitsubishi UFJ Morgan Stanley Securities and (2) Morgan Stanley MUFG Securities. Credit for the newly established joint ventures rolls up to Morgan Stanley. For Japanese involvement league tables Morgan Stanley will be represented as "Mitsubishi UFJ Morgan Stanley."

League table volumes for Huaxin Securities and Morgan Stanley, included herein, reflect changes after the commencement of their jointly established securities firm in China: Morgan Stanley Huaxin Securities. Credit for the newly established joint ventures rolls up to Morgan Stanley. For Chinese involvement league tables Morgan Stanley will be represented as "Morgan Stanley Huaxin Securities".

As concluded following our 2014 DCM Roundtable in Tokyo, Refinitiv will begin publishing domestic Japanese rankings on an "Anbun Hoshiki" (Proportional) basis beginning with Japanese Fiscal Year 2014 - 2015 after April 1st, 2014. Please note that the Samurai Bonds ranking (AP1) will be consistent with all other international bonds rankings and will remain on the "Equal-to-Each" allocation basis.

Following our mid-year League Table Inquiry, all 2014 US mortgage-related securitizations have been classified as mortgage backed regardless of risk category or deal structure.

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