

4 January 2024 Credit Strategy

Supply for December (US\$bn)

| | Corporates | Financials |
|----------|------------|------------|
| December | 11.5 | 10 |

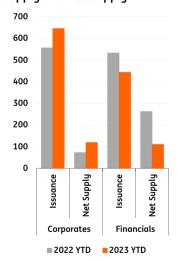
Source: ING, Dealogic

Supply FY and YTD (US\$bn)

| Corporates | FY | YTD |
|------------------------------|--------------------------|--------------------------|
| 2017 | 743 | 743 |
| 2018 | 653 | 653 |
| 2019 | 701 | 701 |
| 2020 | 1168 | 1168 |
| 2021 | 725 | 725 |
| 2022 | 558 | 558 |
| 2023 | 647 | 647 |
| | | |
| Financials | FY | YTD |
| Financials 2017 | FY 424 | YTD 424 |
| | | |
| 2017 | 424 | 424 |
| 2017 2018 | 424 437 | 424 437 |
| 2017 2018 2019 | 424 437 365 | 424 437 365 |
| 2017 2018 2019 2020 | 424 437 365 528 | 424 437 365 528 |

Source: ING, Dealogic

Supply and Net Supply YTD



Source: Dealogic, ING

US Dollar Credit Supply

Forecasting US\$650bn in corp supply in 2024



2024 supply numbers expected to be similar to 2023

- Very much in line with expectations, USD corporate supply ended 2023 at US\$647bn, increasing from 2022 but still below the levels for 2019 to 2021. Net Supply in 2023 totalled US\$114bn, much lower than previous years with the exception of 2022.
- For 2024, we believe USD corporate supply will be more-or-less in line with 2023 supply, thus expecting US\$650bn, despite seeing redemptions falling this year from US\$526bn to US\$469bn. This will result in an increase in net supply to US\$181bn, still lower than some previous years (2016-2021).
- Utilities and Autos were the largest issuers in December with a respective US\$4bn and US\$3bn issued over the month. From a YTD perspective, over 2023 as a whole, most of the sectors saw a considerable growth in issuance compared to the previous year, with TMT as the exception. In addition, Industrials & Chemicals and Real Estate issuance rose by a modest 9% when compared to 2022 levels.
- Corporate Reverse Yankee supply totalled US\$41bn in 2023, surpassing 2022 levels, but closing below the totals for 2019-2021. This is just below our forecast level of US\$45bn for the year. We are not expecting a large influx of Reverse Yankee supply in 2024. The equation for Reverse Yankee supply is not favourable for a cost-savings advantage at this time. We forecast just €40bn in 2024, in line with what was seen in 2023. With a drop in Reverse Yankee redemptions this year, down to €40bn, we expect flat net supply in 2024.

Low net supply in 2023

• USD financial supply totalled US\$445bn in 2023, significantly lower than the levels seen in 2020 to 2022. Similarly, net supply was a modest US\$112bn, more in line with levels of 2019 and before. For 2024, redemptions are due to be more-or-less in line with 2023 at US\$337bn.

Timothy Rahill

Credit Strategist timothy.rahill@ing.com

Fig 1 USD corporate supply overview (US\$bn)

| | 2019 | 2020 | 2021 | 2022 | 2022 Dec | 2023 Nov | 2023 Dec | 2022 YTD | 2023 YTD | % diff |
|------------------------|------|------|------|------|----------|----------|----------|----------|----------|--------|
| Auto | 36 | 40 | 29 | 29 | 0 | 6 | 3 | 29 | 40 | 41 |
| Consumer | 96 | 192 | 75 | 57 | - | 7 | - | 57 | 91 | 59 |
| Healthcare | 108 | 129 | 96 | 72 | 0 | 16 | 1 | 72 | 114 | 57 |
| Industrial & Chemicals | 81 | 208 | 80 | 85 | - | 14 | 2 | 85 | 93 | 9 |
| Real Estate | 58 | 55 | 54 | 26 | 0 | 4 | 1 | 26 | 28 | 9 |
| TMT | 126 | 265 | 219 | 140 | 0 | 3 | 2 | 140 | 97 | -31 |
| Utility | 104 | 131 | 113 | 99 | 5 | 12 | 4 | 99 | 130 | 31 |
| Oil & Gas | 56 | 92 | 27 | 21 | - | - | - | 21 | 35 | 69 |
| Others | 35 | 56 | 30 | 29 | - | 1 | - | 29 | 19 | -34 |

Note: USD supply numbers include just IG corporates from America and Europe.

Fig 2 USD financial supply overview (US\$bn)

| | 2019 | 2020 | 2021 | 2022 | 2022 Dec | 2023 Nov | 2023 Dec | 2022 YTD | 2023 YTD | % diff |
|---------------|------|------|------|------|----------|----------|----------|----------|----------|--------|
| Bank | 195 | 263 | 283 | 344 | 4 | 12 | 9 | 344 | 290 | -16 |
| of which NPS | 68 | 50 | 107 | 58 | 0 | 7 | - | 58 | 62 | 6 |
| of which Pref | 127 | 214 | 176 | 286 | 4 | 5 | 9 | 285 | 228 | -20 |
| Bank Capital | 50 | 70 | 93 | 53 | - | 13 | - | 53 | 45 | -15 |
| Finance | 50 | 87 | 113 | 68 | 1 | 8 | 1 | 68 | 56 | -18 |
| Insurance | 47 | 69 | 63 | 48 | 1 | 1 | 1 | 48 | 38 | -20 |
| Other | 24 | 39 | 20 | 22 | 0 | 1 | - | 22 | 15 | -29 |

Source: ING, Dealogic

Fig 3 USD corporate supply and net supply by month, 2023 (US\$bn)

| Issuance | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total |
|------------|-------------|--------------|---------------|---------------|---------------|-------------|--------------|--------------|--------------|-------------|-------------|--------------|----------------|
| 2019 | 52.1 | 72.2 | 73.6 | 31.3 | 76.1 | 53.9 | 43.4 | 71.2 | 96.3 | 39.0 | 75.8 | 16.4 | 701.3 |
| 2020 | 51.7 | 52.3 | 191.1 | 213.1 | 171.6 | 113.9 | 40.3 | 109.2 | 93.3 | 56.1 | 60.7 | 14.5 | 1167.9 |
| 2021 | 32.0 | 76.1 | 132.5 | 32.2 | 83.4 | 58.3 | 35.3 | 59.6 | 75.1 | 32.5 | 61.9 | 45.7 | 724.7 |
| 2022 | 32.6 | 45.8 | 125.7 | 44.9 | 44.1 | 33.0 | 25.0 | 51.7 | 42.9 | 41.1 | 65.0 | 6.0 | 558.0 |
| 2023 | 47.9 | 129.0 | 68.1 | 30.7 | 124.3 | 33.6 | 29.5 | 36.4 | 46.5 | 27.3 | 62.3 | 11.5 | 647.2 |
| Net Supply | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total |
| 2019 | 13.7 | 16.8 | 13.8 | 3.6 | 29.3 | 16.7 | 24.4 | 41.9 | 62.5 | 0.6 | 51.7 | -3.5 | 271.5 |
| 2020 | | | | | | | L | | 00 | | | | |
| 2020 | 11.6 | 20.1 | 140.4 | 182.8 | 122.5 | 74.3 | 12.3 | 80.3 | 59.0 | 12.0 | 7.7 | -7.4 | 715.6 |
| 2021 | 11.6 2.9 | 20.1 24.5 | 140.4 75.6 | 182.8 -6.1 | 122.5 37.8 | | | | | 12.0 2.2 | | | 715.6 243.9 |
| | | | | | | 74.3 | 12.3 | 80.3 | 59.0 | | 7.7 | -7.4 | |
| 2021 | 2.9 | 24.5 | 75.6 | -6.1 | 37.8 | 74.3 7.6 | 12.3 17.5 | 80.3 28.0 | 59.0 24.0 | 2.2 | 7.7 10.6 | -7.4 19.3 | 243.9 |

Redemptions shown for 2023 only

Source: ING, Dealogic

Fig 4 USD financial supply and net supply by month, 2023 (US\$bn)

| Issuance | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total |
|-------------|------|------|------|------|------|------|------|------|-------|------|------|------|-------|
| 2019 | 52.3 | 22.9 | 42.8 | 30.0 | 33.8 | 24.8 | 27.2 | 19.2 | 43.7 | 37.7 | 22.4 | 8.4 | 365.0 |
| 2020 | 62.2 | 29.1 | 69.5 | 60.3 | 72.6 | 49.6 | 18.0 | 37.1 | 33.4 | 33.6 | 33.9 | 28.5 | 527.8 |
| 2021 | 67.7 | 26.3 | 57.5 | 66.1 | 53.9 | 52.1 | 39.8 | 34.2 | 41.6 | 70.1 | 43.8 | 20.7 | 573.9 |
| 2022 | 84.9 | 33.7 | 77.3 | 50.3 | 47.2 | 25.0 | 52.6 | 61.7 | 17.8 | 43.8 | 33.8 | 6.5 | 534.6 |
| 2023 | 67.0 | 21.7 | 25.9 | 29.6 | 27.3 | 44.5 | 45.9 | 32.2 | 52.6 | 53.9 | 34.0 | 10.0 | 444.7 |
| Net Supply | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total |
| 2019 | 16.2 | 5.5 | 21.1 | 0.2 | 1.0 | 9.2 | 10.2 | -6.0 | 18.6 | 19.1 | 11.6 | -5.5 | 101.2 |
| 2020 | 5.4 | 14.1 | 43.2 | 45.5 | 56.1 | 19.6 | -5.6 | 9.2 | 6.0 | 4.0 | 18.7 | 5.6 | 221.9 |
| 2021 | 19.2 | 0.3 | 22.7 | 23.8 | 11.8 | 32.6 | 8.2 | 10.6 | 28.1 | 48.4 | 24.6 | 9.9 | 240.0 |
| 2022 | 39.3 | 9.3 | 58.7 | 27.6 | 18.4 | 7.8 | 30.3 | 45.0 | -11.8 | 31.2 | 14.3 | -6.4 | 263.8 |
| Redemptions | 67.9 | 28.0 | 23.5 | 19.0 | 30.9 | 22.4 | 24.8 | 26.2 | 23.8 | 23.2 | 23.8 | 19.3 | 332.8 |
| 2023 | -0.9 | -6.2 | 2.4 | 10.6 | -3.6 | 22.1 | 21.1 | 6.0 | 28.8 | 30.7 | 10.3 | -9.3 | 111.9 |

Redemptions shown for 2023 only

Fig 5 Corporate supply and redemptions by month, 2023 (US\$bn)

| Supply | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total |
|--|---------------------------------|-----------------------------------|----------------------------------|----------------------------------|------------------------------------|----------------------------------|---------------------------------|---------------------------------|----------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------------|
| Autos | 4.6 | 0.0 | 4.8 | 2.3 | 1.8 | 1.9 | 4.3 | 5.2 | 3.4 | 3.0 | 6.3 | 3.0 | 40.4 |
| Consumer | 5.0 | 18.3 | 14.5 | 13.4 | 8.3 | 2.3 | 5.5 | 2.2 | 6.9 | 7.6 | 7.0 | 0.0 | 90.8 |
| Healthcare | 2.6 | 34.7 | 8.5 | 0.0 | 40.3 | 1.0 | 0.3 | 3.0 | 2.0 | 5.3 | 15.6 | 0.6 | 113.7 |
| Industrial | 11.1 | 14.4 | 7.2 | 4.7 | 10.8 | 4.9 | 8.3 | 7.0 | 7.8 | 1.5 | 13.8 | 1.9 | 93.3 |
| Real Estate | 2.2 | 3.0 | 3.3 | 1.8 | 3.5 | 3.8 | 2.6 | 0.5 | 2.1 | 1.0 | 3.9 | 0.6 | 28.3 |
| TMT | 6.8 | 27.6 | 6.0 | 4.7 | 28.9 | 3.6 | 2.2 | 2.0 | 9.1 | 1.3 | 3.3 | 1.5 | 96.6 |
| Utility | 14.4 | 21.1 | 18.7 | 1.5 | 21.1 | 10.7 | 4.0 | 5.7 | 10.3 | 7.1 | 11.9 | 3.9 | 130.3 |
| Oil & Gas | 0.6 | 10.1 | 3.1 | 0.8 | 6.2 | 3.5 | 0.0 | 9.2 | 1.5 | 0.0 | 0.0 | 0.0 | 34.9 |
| Others | 0.8 | 0.0 | 2.0 | 1.7 | 3.6 | 2.0 | 2.5 | 1.6 | 3.5 | 0.7 | 0.6 | 0.0 | 18.9 |
| Redemptions | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total |
| A | | | | | | | | | | | | | |
| Auto | 3.1 | 3.6 | 3.0 | 3.0 | 4.3 | 2.1 | 1.8 | 3.0 | 0.8 | 1.5 | 3.3 | 2.2 | 31.6 |
| Consumer | 3.1 3.5 | 3.6 10.0 | 3.0 13.0 | 3.0 13.8 | 4.3 10.9 | 2.1 8.1 | 1.8 1.7 | 3.0 4.4 | 0.8 6.1 | 1.5 5.0 | 3.3 5.3 | 2.2 4.2 | 31.6 86.0 |
| | | | | | | | | | | | | | |
| Consumer | 3.5 | 10.0 | 13.0 | 13.8 | 10.9 | 8.1 | 1.7 | 4.4 | 6.1 | 5.0 | 5.3 | 4.2 | 86.0 |
| Consumer Healthcare | 3.5 2.7 | 10.0 3.7 | 13.0 7.3 | 13.8 3.8 | 10.9 6.2 | 8.1 5.4 | 1.7 4.8 | 4.4 4.9 | 6.1 7.6 | 5.0 3.8 | 5.3 7.1 | 4.2 7.5 | 86.0 64.8 |
| Consumer Healthcare Industrial | 3.5 2.7 8.4 | 10.0 3.7 6.4 | 13.0 7.3 8.6 | 13.8 3.8 8.7 | 10.9 6.2 11.1 | 8.1 5.4 5.5 | 1.7 4.8 6.0 | 4.4 4.9 5.9 | 6.1 7.6 4.2 | 5.0 3.8 2.2 | 5.3 7.1 6.9 | 4.2 7.5 2.1 | 86.0 64.8 76.1 |
| Consumer Healthcare Industrial Real Estate | 3.5 2.7 8.4 2.5 | 10.0 3.7 6.4 2.2 | 13.0 7.3 8.6 1.1 | 13.8 3.8 8.7 2.3 | 10.9 6.2 11.1 1.5 | 8.1 5.4 5.5 4.4 | 1.7 4.8 6.0 0.6 | 4.4 4.9 5.9 2.3 | 6.1 7.6 4.2 2.5 | 5.0 3.8 2.2 1.3 | 5.3 7.1 6.9 2.0 | 4.2 7.5 2.1 1.6 | 86.0 64.8 76.1 24.2 |
| Consumer Healthcare Industrial Real Estate TMT | 3.5 2.7 8.4 2.5 7.5 | 10.0 3.7 6.4 2.2 13.7 | 13.0 7.3 8.6 1.1 9.3 | 13.8 3.8 8.7 2.3 9.3 | 10.9 6.2 11.1 1.5 12.2 | 8.1 5.4 5.5 4.4 15.8 | 1.7 4.8 6.0 0.6 3.8 | 4.4 4.9 5.9 2.3 5.0 | 6.1 7.6 4.2 2.5 19.8 | 5.0 3.8 2.2 1.3 2.9 | 5.3 7.1 6.9 2.0 2.4 | 4.2 7.5 2.1 1.6 3.9 | 86.0 64.8 76.1 24.2 105.5 |

Fig 6 Financial supply and redemptions by month, 2023 (US\$bn)

| Supply | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total |
|---------------|------|------|------|------|------|------|------|------|------|------|------|-----|-------|
| Bank Senior | 54.2 | 5.0 | 10.5 | 24.5 | 10.1 | 26.1 | 32.8 | 19.3 | 40.0 | 47.2 | 11.8 | 8.6 | 290.0 |
| of which NPS | 16.7 | 2.6 | 8.0 | - | 2.0 | 5.8 | 6.0 | 3.0 | 5.5 | 6.0 | 6.5 | - | 62.0 |
| of which Pref | 37.5 | 2.5 | 2.4 | 24.5 | 8.1 | 20.3 | 26.8 | 16.3 | 34.5 | 41.2 | 5.3 | 8.6 | 228.0 |
| Bank Capital | 3.8 | 8.4 | 1.3 | - | 3.5 | 4.5 | 4.2 | 3.6 | 2.5 | 0.0 | 12.8 | - | 44.6 |
| Finance | 2.5 | 3.0 | 4.6 | 2.6 | 7.8 | 7.1 | 6.0 | 5.6 | 2.2 | 5.6 | 8.1 | 0.7 | 55.9 |
| Insurance | 5.7 | 3.1 | 7.6 | 1.4 | 3.5 | 4.8 | 2.1 | 2.5 | 5.1 | 1.1 | 0.7 | 8.0 | 38.1 |
| Redemptions | | | | | | | | | | | | | |
| Bank Senior | 50.0 | 17.0 | 15.4 | 12.8 | 18.6 | 12.0 | 16.1 | 17.0 | 9.1 | 15.0 | 11.9 | 9.5 | 204.4 |
| of which NPS | 23.2 | 10.4 | 4.0 | 13.0 | 8.0 | 3.5 | 7.8 | 8.0 | 6.2 | 2.8 | 3.8 | 4.5 | 95.0 |
| of which Pref | 26.8 | 6.6 | 11.4 | -0.2 | 10.6 | 8.5 | 8.4 | 9.0 | 3.0 | 12.3 | 8.1 | 5.0 | 109.5 |
| Bank Capital | 5.9 | 3.0 | 6.1 | 3.0 | 15.1 | 5.4 | 3.9 | 4.5 | 6.5 | 3.6 | 5.3 | 8.2 | 70.3 |
| Finance | 11.5 | 6.6 | 6.2 | 3.1 | 3.4 | 4.2 | 7.5 | 5.4 | 7.9 | 4.6 | 4.4 | 2.7 | 67.4 |
| Insurance | 4.1 | 2.3 | 1.7 | 2.2 | 2.6 | 5.6 | 0.5 | 1.4 | 3.9 | 2.1 | 4.0 | 3.6 | 33.9 |

Source: ING, Dealogic

Fig 7 USD supply, redemptions and net supply by year (US\$bn)

| _ | | | | | | | | | |
|------------|--------|--------|-------|-------|------------|-------|-------|-------|--------|
| Corporates | YTD | FY | Reds | Net | Financials | YTD | FY | Reds | Net |
| 2012 | 601.9 | 601.9 | 250.0 | 351.8 | 2012 | 266.2 | 266.2 | 410.0 | -143.8 |
| 2013 | 558.9 | 558.9 | 256.4 | 302.5 | 2013 | 331.3 | 331.3 | 200.8 | 130.5 |
| 2014 | 549.2 | 549.2 | 254.3 | 294.9 | 2014 | 413.3 | 413.4 | 240.2 | 173.2 |
| 2015 | 709.9 | 709.9 | 257.5 | 452.3 | 2015 | 423.6 | 423.6 | 244.2 | 179.4 |
| 2016 | 697.6 | 697.6 | 293.8 | 403.8 | 2016 | 388.6 | 388.6 | 234.3 | 154.3 |
| 2017 | 742.6 | 742.8 | 355.6 | 387.3 | 2017 | 424.2 | 424.2 | 263.0 | 161.2 |
| 2018 | 652.9 | 652.9 | 384.9 | 267.9 | 2018 | 437.3 | 437.3 | 281.7 | 155.6 |
| 2019 | 701.3 | 701.3 | 429.8 | 271.5 | 2019 | 365.0 | 365.0 | 263.8 | 101.2 |
| 2020 | 1167.9 | 1167.9 | 452.3 | 715.6 | 2020 | 527.8 | 527.8 | 305.9 | 221.9 |
| 2021 | 724.7 | 724.7 | 480.8 | 243.9 | 2021 | 573.8 | 573.9 | 333.9 | 240.0 |
| 2022 | 558.0 | 558.0 | 483.5 | 74.5 | 2022 | 534.4 | 534.6 | 270.8 | 263.8 |
| 2023 | 647.2 | 640.0 | 526.2 | 113.8 | 2023 | 444.7 | 444.7 | 332.8 | 111.9 |
| 2024 | | | 468.9 | | 2024 | | | 337.1 | |
| 2025 | | | 549.9 | | 2025 | | | 394.3 | |

Fig 8 Subordinated supply, 2022 and 2023 (US\$bn)

| 2022 | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total |
|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| AT1 | 3.5 | 0.0 | 0.0 | 3.0 | 0.0 | 2.7 | 1.3 | 6.9 | 0.1 | 0.0 | 2.5 | 0.0 | 19.9 |
| T2 | 2.9 | 0.2 | 2.2 | 2.0 | 0.2 | 2.2 | 1.0 | 0.2 | 3.7 | 2.0 | 1.1 | 0.0 | 17.7 |
| Bank Capital | 6.4 | 0.2 | 2.2 | 5.0 | 0.2 | 4.9 | 2.3 | 7.0 | 3.8 | 2.0 | 3.6 | 0.0 | 37.6 |
| 2023 | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total |
| AT1 | 0.0 | 6.4 | 1.3 | 0.0 | 0.0 | 0.0 | 1.7 | 3.0 | 1.0 | 0.0 | 9.0 | 0.0 | 22.4 |
| | | | | | | | | | | | | | |
| T2 | 3.0 | 2.0 | 0.0 | 0.0 | 3.2 | 4.5 | 2.5 | 0.0 | 0.0 | 0.0 | 2.8 | 0.0 | 18.0 |

Fig 9 Reverse Yankee supply, 2022 and 2023 (\$bn)

| 2022 | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total |
|------------------------|------------|------------|------------|------------|-------------|------------|------------|------------|------------|------------|------------|------------|--------------|
| Corporate | 2.3 | 2.6 | 6.4 | 0.6 | 2.3 | 2.5 | 1.5 | 1.6 | 4.3 | 3.7 | 5.3 | 0.4 | 33.2 |
| Financial | 0.5 | 3.0 | 3.8 | 4.5 | 7.0 | 0.1 | 0.0 | 0.5 | 3.7 | 3.3 | 2.3 | 0.1 | 28.6 |
| Total | 2.8 | 5.6 | 10.1 | 5.0 | 9.3 | 2.6 | 1.5 | 2.1 | 7.9 | 6.9 | 7.5 | 0.5 | 61.8 |
| 2023 | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total |
| | | | | | | | | | | | | | |
| Corporate | 5.5 | 5.5 | 2.8 | 1.8 | 12.2 | 3.8 | 0.0 | 0.8 | 0.5 | 0.1 | 7.3 | 0.6 | 41.4 |
| Corporate Financial | 5.5 1.5 | 5.5 2.0 | 2.8 1.1 | 1.8 0.0 | 12.2 0.8 | 3.8 2.7 | 0.0 0.1 | 0.8 0.9 | 0.5 0.0 | 0.1 0.1 | 7.3 2.6 | 0.6 0.5 | 41.4 11.8 |

Source: ING, Dealogic

Fig 10 XCCY 5yr

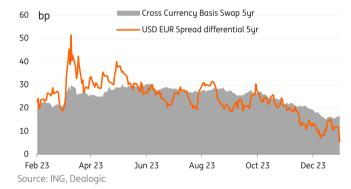


Fig 11 XCCY 10yr

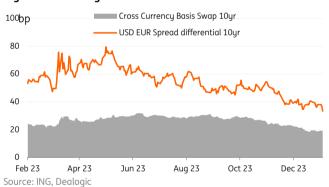


Fig 12 US, Yankee and Reverse Yankee supply (US\$bn)

| Corporates | Domestic | Yankee | Rev Yankee (\$) | Financials | Domestic | Yankee | Rev Yankee (\$) |
|------------|----------|--------|-----------------|------------|----------|--------|-----------------|
| 2012 | 478.5 | 145.1 | 16.9 | 2012 | 207.2 | 59.0 | 8.2 |
| 2013 | 463.8 | 115.5 | 32.3 | 2013 | 254.9 | 78.1 | 14.7 |
| 2014 | 468.7 | 111.0 | 42.7 | 2014 | 290.7 | 126.2 | 32.5 |
| 2015 | 609.5 | 110.8 | 61.8 | 2015 | 304.1 | 128.0 | 28.8 |
| 2016 | 588.0 | 115.8 | 66.3 | 2016 | 275.0 | 114.9 | 45.6 |
| 2017 | 653.0 | 104.6 | 65.4 | 2017 | 311.7 | 113.5 | 35.8 |
| 2018 | 525.7 | 130.1 | 31.1 | 2018 | 305.5 | 133.0 | 17.7 |
| 2019 | 609.8 | 96.6 | 98.9 | 2019 | 270.4 | 95.8 | 28.3 |
| 2020 | 1,029.9 | 153.1 | 68.4 | 2020 | 404.9 | 124.9 | 24.2 |
| 2021 | 627.3 | 101.7 | 59.0 | 2021 | 410.2 | 168.1 | 40.6 |
| 2022 | 483.6 | 85.5 | 33.2 | 2022 | 389.2 | 147.5 | 28.6 |
| 2023 | 560.3 | 101.6 | 41.4 | 2023 | 297.5 | 149.1 | 11.8 |

Source: ING

Fig 13 ESG supply per month, 2023 (US\$bn)

| Corporate | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total |
|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| Green | 0.0 | 2.6 | 1.5 | 0.4 | 4.8 | 0.0 | 0.0 | 1.4 | 1.4 | 0.0 | 0.6 | 0.0 | 12.5 |
| Social | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 |
| Sustainable | 0.0 | 0.0 | 0.8 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 |
| ESG | 0.0 | 2.6 | 2.3 | 0.9 | 4.8 | 0.1 | 0.0 | 1.4 | 1.4 | 0.0 | 0.6 | 0.0 | 13.8 |
| Financial | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total |
| Green | 1.3 | 0.0 | 0.0 | 0.0 | 1.2 | 0.1 | 0.0 | 0.0 | 1.4 | 2.0 | 0.0 | 0.0 | 5.9 |
| Social | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.1 |
| Sustainable | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.1 |

Fig 14 ESG supply per year and YTD (US\$bn)

| Corporate | 2019 | 2020 | 2021 | 2022 | 2023 | 2019 YTD | 2020 YTD | 2021 YTD | 2022 YTD | 2023 YTD |
|-------------|------|------|------|------|------|----------|----------|----------|----------|----------|
| Green | 13.4 | 18.5 | 30.3 | 24.4 | 12.5 | 13.4 | 18.5 | 30.3 | 24.4 | 12.5 |
| Social | 0.0 | 1.5 | 0.6 | 0.2 | 0.1 | 0.0 | 1.5 | 0.6 | 0.2 | 0.1 |
| Sustainable | 1.0 | 7.5 | 8.6 | 4.9 | 1.3 | 1.0 | 7.5 | 8.6 | 4.9 | 1.3 |
| ESG | 14.4 | 27.4 | 39.4 | 29.4 | 13.8 | 14.4 | 27.4 | 39.4 | 29.4 | 13.8 |
| Financial | 2019 | 2020 | 2021 | 2022 | 2023 | 2019 YTD | 2020 YTD | 2021 YTD | 2022 YTD | 2023 YTD |
| Green | 5.0 | 7.1 | 8.3 | 4.7 | 5.9 | 5.0 | 7.1 | 8.3 | 4.7 | 5.9 |
| Social | 0.5 | 6.6 | 5.3 | 2.5 | 0.0 | 0.5 | 6.6 | 5.3 | 2.5 | 0.0 |
| Sustainable | 0.1 | 2.6 | 7.3 | 8.5 | 0.0 | 0.1 | 2.6 | 7.3 | 8.5 | 0.0 |
| ESG | 5.6 | 16.2 | 20.9 | 15.8 | 5.9 | 5.6 | 16.2 | 20.9 | 15.8 | 5.9 |

Source: ING, Dealogic

Fig 15 Investment grade issuance by maturity, 2022 and 2023 (US\$bn)

| 2022 | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | 2022 |
|---|--|---|---|--|---|--|--|--|--|--|--|---|---|
| Corp 0-3yr | 6.0 | 4.5 | 18.1 | 7.5 | 7.0 | 6.8 | 5.5 | 3.3 | 7.6 | 8.2 | 13.5 | 0.5 | 88.4 |
| Corp 3-6yr | 5.5 | 4.2 | 18.0 | 6.0 | 6.8 | 7.7 | 5.0 | 7.7 | 7.1 | 6.7 | 14.3 | 1.9 | 90.8 |
| Corp 6-9yr | 0.2 | 1.2 | 10.3 | 6.8 | 2.3 | 1.4 | 2.0 | 4.1 | 0.9 | 2.9 | 7.6 | 0.0 | 39.7 |
| Corp 9-12yr | 10.9 | 15.5 | 35.0 | 12.4 | 12.6 | 9.3 | 8.6 | 19.4 | 15.4 | 13.9 | 18.4 | 2.2 | 173.6 |
| Corp 12-17yr | 1.3 | 1.4 | 1.1 | 8.0 | 0.9 | 0.1 | 0.3 | 0.3 | 0.1 | 0.4 | 0.4 | 0.1 | 7.3 |
| Corp 17yrs+ | 5.6 | 19.0 | 43.2 | 11.4 | 14.5 | 7.8 | 3.7 | 16.9 | 11.9 | 9.0 | 10.7 | 1.4 | 155.0 |
| Fin 0-3yr | 17.9 | 3.0 | 12.5 | 13.4 | 15.1 | 8.5 | 3.8 | 13.3 | 2.3 | 6.7 | 6.7 | 4.6 | 108.0 |
| Fin 3-6yr | 13.9 | 7.1 | 21.1 | 9.1 | 6.8 | 4.5 | 12.5 | 14.6 | 8.5 | 11.7 | 7.7 | 0.9 | 118.2 |
| Fin 6-9yr | 14.8 | 10.2 | 16.4 | 9.9 | 8.6 | 5.0 | 13.8 | 10.5 | 0.8 | 8.1 | 5.6 | 0.2 | 103.9 |
| Fin 9-12yr | 24.9 | 10.5 | 15.8 | 7.8 | 10.7 | 3.5 | 20.5 | 12.9 | 4.5 | 15.6 | 8.6 | 0.0 | 135.2 |
| Fin 12-17yr | 1.0 | 0.1 | 2.5 | 2.0 | 0.9 | 0.0 | 0.0 | 0.2 | 0.1 | 0.0 | 0.0 | 0.0 | 6.9 |
| Fin 17yrs+ | 12.4 | 2.8 | 9.1 | 8.1 | 5.1 | 3.5 | 2.1 | 10.2 | 1.5 | 1.3 | 5.2 | 0.7 | 62.1 |
| | | | | | | | | | | | | | |
| 2023 | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | YTD |
| 2023 Corp 0-3yr | Jan 9.5 | Feb 18.5 | Mar 12.4 | Apr 3.5 | May 12.5 | Jun 2.0 | Jul 4.1 | Aug 4.8 | Sep 6.0 | Oct 1.3 | Nov 12.8 | Dec 0.0 | 87.3 |
| - | | | | | | | | | - | | | | |
| Corp 0-3yr | 9.5 | 18.5 | 12.4 | 3.5 | 12.5 | 2.0 | 4.1 | 4.8 | 6.0 | 1.3 | 12.8 | 0.0 | 87.3 |
| Corp 0-3yr Corp 3-6yr | 9.5 10.2 | 18.5 19.7 | 12.4 12.1 | 3.5 8.3 | 12.5 28.1 | 2.0 7.4 | 4.1 9.9 | 4.8 10.0 | 6.0 11.8 | 1.3 5.6 | 12.8 13.4 | 0.0 5.8 | 87.3 136.6 |
| Corp 0-3yr Corp 3-6yr Corp 6-9yr | 9.5 10.2 2.3 16.9 0.7 | 18.5 19.7 10.6 | 12.4 12.1 3.3 | 3.5 8.3 3.8 | 12.5 28.1 6.8 37.0 0.4 | 2.0 7.4 1.6 13.7 1.7 | 4.1 9.9 1.7 8.8 0.6 | 4.8 10.0 2.6 | 6.0 11.8 2.5 | 1.3 5.6 2.8 10.7 0.3 | 12.8 13.4 6.4 19.5 0.2 | 0.0 5.8 0.4 4.4 0.5 | 87.3 136.6 44.6 |
| Corp 0-3yr Corp 3-6yr Corp 6-9yr Corp 9-12yr | 9.5 10.2 2.3 16.9 | 18.5 19.7 10.6 43.3 | 12.4 12.1 3.3 20.1 | 3.5 8.3 3.8 11.6 | 12.5 28.1 6.8 37.0 | 2.0 7.4 1.6 13.7 | 4.1 9.9 1.7 8.8 | 4.8 10.0 2.6 12.3 | 6.0 11.8 2.5 18.3 | 1.3 5.6 2.8 10.7 | 12.8 13.4 6.4 19.5 | 0.0 5.8 0.4 4.4 | 87.3 136.6 44.6 212.2 |
| Corp 0-3yr Corp 3-6yr Corp 6-9yr Corp 9-12yr Corp 12-17yr | 9.5 10.2 2.3 16.9 0.7 | 18.5 19.7 10.6 43.3 2.2 | 12.4 12.1 3.3 20.1 0.5 | 3.5 8.3 3.8 11.6 0.8 | 12.5 28.1 6.8 37.0 0.4 | 2.0 7.4 1.6 13.7 1.7 | 4.1 9.9 1.7 8.8 0.6 | 4.8 10.0 2.6 12.3 0.1 | 6.0 11.8 2.5 18.3 0.1 | 1.3 5.6 2.8 10.7 0.3 | 12.8 13.4 6.4 19.5 0.2 | 0.0 5.8 0.4 4.4 0.5 | 87.3 136.6 44.6 212.2 7.6 |
| Corp 0-3yr Corp 3-6yr Corp 6-9yr Corp 9-12yr Corp 12-17yr Corp 17yrs+ | 9.5 10.2 2.3 16.9 0.7 8.3 | 18.5 19.7 10.6 43.3 2.2 34.8 | 12.4 12.1 3.3 20.1 0.5 19.6 | 3.5 8.3 3.8 11.6 0.8 2.8 | 12.5 28.1 6.8 37.0 0.4 39.6 | 2.0 7.4 1.6 13.7 1.7 7.2 | 4.1 9.9 1.7 8.8 0.6 4.4 | 4.8 10.0 2.6 12.3 0.1 6.6 | 6.0 11.8 2.5 18.3 0.1 7.4 | 1.3 5.6 2.8 10.7 0.3 5.7 | 12.8 13.4 6.4 19.5 0.2 7.6 | 0.0 5.8 0.4 4.4 0.5 0.5 | 87.3 136.6 44.6 212.2 7.6 144.1 |
| Corp 0-3yr Corp 3-6yr Corp 6-9yr Corp 9-12yr Corp 12-17yr Corp 17yrs+ | 9.5 10.2 2.3 16.9 0.7 8.3 | 18.5 19.7 10.6 43.3 2.2 34.8 | 12.4 12.1 3.3 20.1 0.5 19.6 | 3.5 8.3 3.8 11.6 0.8 2.8 | 12.5 28.1 6.8 37.0 0.4 39.6 | 2.0 7.4 1.6 13.7 1.7 7.2 | 4.1 9.9 1.7 8.8 0.6 4.4 | 4.8 10.0 2.6 12.3 0.1 6.6 | 6.0 11.8 2.5 18.3 0.1 7.4 | 1.3 5.6 2.8 10.7 0.3 5.7 | 12.8 13.4 6.4 19.5 0.2 7.6 | 0.0 5.8 0.4 4.4 0.5 0.5 | 87.3 136.6 44.6 212.2 7.6 144.1 |
| Corp 0-3yr Corp 3-6yr Corp 6-9yr Corp 9-12yr Corp 12-17yr Corp 17yrs+ Fin 0-3yr Fin 3-6yr | 9.5 10.2 2.3 16.9 0.7 8.3 | 18.5 19.7 10.6 43.3 2.2 34.8 18.5 19.7 | 12.4 12.1 3.3 20.1 0.5 19.6 | 3.5 8.3 3.8 11.6 0.8 2.8 3.5 8.3 | 12.5 28.1 6.8 37.0 0.4 39.6 | 2.0 7.4 1.6 13.7 1.7 7.2 2.0 7.4 | 4.1 9.9 1.7 8.8 0.6 4.4 4.1 9.9 | 4.8 10.0 2.6 12.3 0.1 6.6 4.8 | 6.0 11.8 2.5 18.3 0.1 7.4 6.0 11.9 | 1.3 5.6 2.8 10.7 0.3 5.7 | 12.8 13.4 6.4 19.5 0.2 7.6 13.6 14.5 | 0.0 5.8 0.4 4.4 0.5 0.5 0.5 | 87.3 136.6 44.6 212.2 7.6 144.1 88.2 143.8 |
| Corp 0-3yr Corp 3-6yr Corp 6-9yr Corp 9-12yr Corp 12-17yr Corp 17yrs+ Fin 0-3yr Fin 3-6yr Fin 6-9yr | 9.5 10.2 2.3 16.9 0.7 8.3 9.5 10.2 2.3 | 18.5 19.7 10.6 43.3 2.2 34.8 18.5 19.7 10.6 | 12.4 12.1 3.3 20.1 0.5 19.6 12.4 12.1 3.3 | 3.5 8.3 3.8 11.6 0.8 2.8 3.5 8.3 3.8 | 12.5 28.1 6.8 37.0 0.4 39.6 12.5 28.1 6.8 | 2.0 7.4 1.6 13.7 1.7 7.2 2.0 7.4 1.6 | 4.1 9.9 1.7 8.8 0.6 4.4 4.1 9.9 | 4.8 10.0 2.6 12.3 0.1 6.6 4.8 10.0 2.6 | 6.0 11.8 2.5 18.3 0.1 7.4 6.0 11.9 2.5 | 1.3 5.6 2.8 10.7 0.3 5.7 1.4 5.9 3.0 | 12.8 13.4 6.4 19.5 0.2 7.6 13.6 14.5 6.6 | 0.0 5.8 0.4 4.4 0.5 0.5 0.0 5.8 0.4 | 87.3 136.6 44.6 212.2 7.6 144.1 88.2 143.8 45.2 |

Fig 16 Corporate supply per S&P rating (US\$bn)

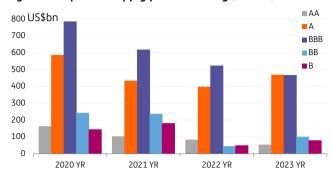


Fig 18 Corporate supply per country (US\$bn)

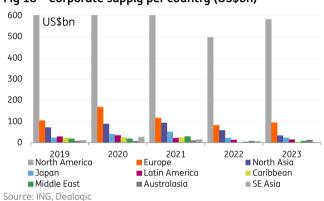


Fig 17 Financial supply per S&P rating (US\$bn)

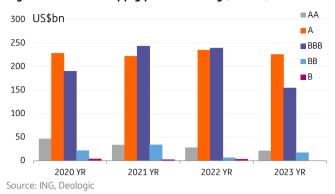
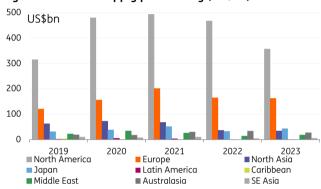


Fig 19 Financial supply per country (US\$bn)



Disclaimer

This publication has been prepared by the Economic and Financial Analysis Division of ING Bank N.V. ("ING") solely for information purposes without regard to any particular user's investment objectives, financial situation, or means. ING forms part of ING Group (being for this purpose ING Group N.V. and its subsidiary and affiliated companies). The information in the publication is not an investment recommendation and it is not investment, legal or tax advice or an offer or solicitation to purchase or sell any financial instrument. Reasonable care has been taken to ensure that this publication is not untrue or misleading when published, but ING does not represent that it is accurate or complete. ING does not accept any liability for any direct, indirect or consequential loss arising from any use of this publication. Unless otherwise stated, any views, forecasts, or estimates are solely those of the author(s), as of the date of the publication and are subject to change without notice.

The distribution of this publication may be restricted by law or regulation in different jurisdictions and persons into whose possession this publication comes should inform themselves about, and observe, such restrictions.

Copyright and database rights protection exists in this report and it may not be reproduced, distributed or published by any person for any purpose without the prior express consent of ING. All rights are reserved. ING Bank N.V. is authorised by the Dutch Central Bank and supervised by the European Central Bank (ECB), the Dutch Central Bank (DNB) and the Dutch Authority for the Financial Markets (AFM). ING Bank N.V. is incorporated in the Netherlands (Trade Register no. 33031431 Amsterdam). In the United Kingdom this information is approved and/or communicated by ING Bank N.V., London Branch. ING Bank N.V., London Branch is authorised by the Prudential Regulation Authority and is subject to regulation by the Financial Conduct Authority and limited regulation by the Prudential Regulation Authority. ING Bank N.V., London branch is registered in England (Registration number BR000341) at 8-10 Moorgate, London EC2 6DA. For US Investors: Any person wishing to discuss this report or effect transactions in any security discussed herein should contact ING Financial Markets LLC, which is a member of the NYSE, FINRA and SIPC and part of ING, and which has accepted responsibility for the distribution of this report in the United States under applicable requirements.

Additional information is available on request. For more information about ING Group, please visit https://www.ing.com.