



The Global Association of Central Counterparties

PUBLIC QUANTITATIVE DISCLOSURE

PQD QUARTERLY TRENDS REPORT

2024 Q1 DATA



Jun-24

Contents

CCP PQDs	3	Global CCP Initial Margin (Held) Cash	16
Commentary for the Quarter	4	Global CCP Default Fund (Held) Cash	17
Headline Statistics Of The Public Quantitative Disclosures	5	Global CCP Initial Margin (Held) Non-Cash	18
Collateral View	6	Global CCP Default Fund (Held) Non-Cash	19
PQD Statistics Key	9	Selected CCPs – IM (Required) for Exchange Traded Derivatives	20
Global CCP Initial Margin & Default Fund (Required)	10	Results Of Backtesting IM – Achieved Coverage Level (ACL)	21
Global CCP Initial Margin & Default Fund (Held)	11	Global CCP Core System Availability & Target Recovery Time	22
Global IM Breakdown (House vs. Client) (Required)	12	CCP Global Member List	23
Global CCP Overcollateralization (IM & DF)	13	About CCP Global	24
Global CCP Overcollateralization (Total)	14	Contacts	25
Global CCP Variation Margin	15	CCP Global Members	26

CCP PQDs

The CCP Global PQD Quarterly Trends Report provides an overview of the risk management provided by CCPs across the globe. It complements existing public statistics, such as the BIS derivatives statistics, by providing a summary of key indicators which provides market participants an overview of the CCP ecosystem. The publication underlines the scope and scale of risk mitigation provided by central clearing:

- CCPs exposure to credit risk is collateralized through high-quality and liquid collateral;
- CCPs risk-manage their actual clearing exposure by collecting *mark-to-market* losses through regular variation margin (or similar) payments, and their potential future exposure by collecting initial margin.

This CCP Global PQD Quarterly Trends Report helps to inform market participants, authorities, and the general public of key features, the scale and nature of financial market infrastructure risk management. The data is aggregated directly from the CCPs themselves according to the CCP Global standardized template, carrying information stipulated in global regulatory guidance. Further details for individual CCPs can be found in links provided on the [CCP Global website](#) and page 23 of this report.

PQD UPDATES FOR 2024 Q1

- [Cboe Clear Europe N.V. \(Cboe Clear\)](#) was accepted as an Observer Member at the CCP Global Executive Committee Meeting in March 2024, and subsequently a Primary Member at the [CCPG AGM in Athens](#) on 30 May 2024. Cboe Clear PQDs are incorporated retrospectively for all quarters within the CCPG PQD QTR and Newsflash.
- CCPG released an update to the [PQD FAQ Guide](#) to reflect the industry feedback and further enhancement of the PQDs.

KEY STATISTICS FOR 2024 Q1 (USD)*

60 CCPs across Americas (17), APAC (24), and EMEA (19).
Equivalent to 38 CCP Global members included in this quarter's collation†:

6.1.1 GLOBAL IM (REQUIRED)

1,254B

▲ +0.1%

4.1.4 GLOBAL DF (REQUIRED)

150B

▲ +1.4%

6.6.1 GLOBAL VM FLOW

35B

▼ -16.1%

6.2.15 GLOBAL IM (HELD)

1,713B

▼ -0.2%

4.3.15 GLOBAL DF (HELD)

171B

▼ -1.8%

TOTAL (IM & DF) GLOBAL OVERCOLLATERALIZATION‡

479B

▼ -2.1%

% change from the previous quarter

For any questions, please get in touch: question.pqd@ccp-global.org

*Data has been normalized to USD equivalent, based on a conversion from quarter-end FX rates provided by the [ECB](#). All figures have been rounded up to the nearest billion in charts and tables.

†Euronext Clearing (CC&G), IRGIT and NCC PQD figures are incorporated as non-CCP Global members. Cboe Clear Europe (CCE), Dubai Clear, MGEX, NCC - 2023Q4 PQD figures were used in this report since these PQDs were not available as of 2024.06.08.

CCPG undertakes periodic improvements to the data quality of the PQD aggregation for the QTR on a quarterly basis and thus changes to previous figures may incur as a result of enhancing data accuracy and reliability of how the data is calculated on an aggregate basis.

‡Total OC = $(IM_{Held} + DF_{Held}) - (IM_{Required} + DF_{Required})$ = Disclosures (6.2.15 + 4.3.15) - (6.1.1 + 4.1.4). Only PostHaircut values are used for Held values.

Commentary for the quarter: 2024 Q1

Key market developments which took place in 2024 Q1:

- Entering the first quarter of 2024, since January, financial conditions firmed and tightened, as central bank communication pushed back against such expectations and data releases pointed at more stubborn inflation pressures. Sovereign bond yields declined on balance during the period, while valuations of risky assets generally rose.¹
- The Fed kept the interest rate steady between 5.25% to 5.5% since July 2023. The European Central Bank (ECB) interest rates were kept fixed at 4.5%. The Bank of England (BOE) remained at 5.25%. The Bank of Japan (BOJ) raised its short-term interest rates to 0% to 0.1% from -0.1%, ending the world's only negative rates regime and other unconventional policy easing measures enacted over the course of the last few decades to combat deflation.²
- The annual inflation rate in the US increased over the period from 3.1% in January to 3.2% in February and 3.5% in March. On the other side of the Atlantic, Euro area annual inflation was 2.4% in March, down from 2.6% in February and 2.8% in January.³
- Governmental bond yields adjusted in response to shifting market sentiments and economic indicators. 10-year government bond yields increased across the board. The US 10-year Treasury jumped from 3.87% at the end of Q4 2023 to 4.21% at the end of Q1 2024. The UK 10-year gilt yield rose from 3.54% to 3.94%, while the German 10-year bond yield steadied at 2.03%; a 26-basis point increase from the end of Q4.
- The overall optimistic mood also had a bearing on risky assets. Global stock indices rallied, and credit spreads narrowed. While still relatively tight, global financial conditions eased. Bond issuance and bank credit supply terms painted a less rosy picture. Issuance remained rather subdued, as firms seemed less willing to tap the market at higher rates while banks' lending standards were still tight.
- Total global volumes of ETD contracts reached 14.84 billion in March 2024. Options volumes reached 12.43 billion contracts, while futures volumes reached 2.41 billion.⁴

1 https://www.bis.org/publ/qtrpdf/r_qt2403.pdf

2 <https://data.bis.org>

3 <https://www.schroders.com/en/global/individual/insights/quarterly-markets-review---q1-2024/>

4 <https://www.fia.org/fia/etd-tracker>

Headline Statistics of the Public Quantitative Disclosures

2024 Q1

Global CCP Margin* (USD B)

Global Initial Margin & Default Fund (Required):

Total Global IM Required (6.1.1)	1,254
Total Global DF Required (4.1.4)	150
Total Global CCP Collateral Required (6.1.1 + 4.1.4)	1,404

Global IM & DF Held (PostHaircut):

Total Global IM Held (PostHaircut) (6.2.15)	1,713
Total Global DF Held (PostHaircut) (4.3.15)	171
Total Global CCP Collateral Held (PostHaircut) (6.2.15 + 4.3.15)	1,884

Global Variation Margin (VM)

Sum of Total Global Average Daily VM Paid to the CCP by participants each business day (6.6.1)	35
--	----

Global Overcollateralization (OC)†

Total Global IM Overcollateralization	459
Total Global DF Overcollateralization	20
Total Global Overcollateralization	479

Total Global CCP Collateral (Held) (PostHaircut) in form of‡:

	Disclosure	Initial Margin	Disclosure	Default Fund
Cash				
<i>At Central Bank</i>	(6.2.1 + 6.2.2)	14.3%	(4.3.1 + 4.3.2)	43.8%
<i>Secured Cash (incl. Reverse Repos) at Commercial Banks</i>	6.2.3	7.7%	4.3.3	8.0%
<i>Unsecured Cash at Commercial Banks</i>	6.2.4	4.2%	4.3.4	7.0%
Non-Cash				
<i>Sovereign Gov Bonds - Domestic</i>	6.2.5	28.7%	4.3.5	33.9%
<i>Sovereign Gov Bonds - Foreign</i>	6.2.6	19.6%	4.3.6	1.9%
<i>Agency Bonds</i>	6.2.7	1.2%	4.3.7	3.9%
<i>State/Municipal Bonds</i>	6.2.8	1.2%	4.3.8	0.3%
<i>Corporate Bonds</i>	6.2.9	6.5%	4.3.9	0.7%
<i>Equities</i>	6.2.10	13.9%	4.3.10	0.2%
<i>Commodities - Gold</i>	6.2.11	0.2%	4.3.11	0.0%
<i>Commodities - Other</i>	6.2.12	0.0%	4.3.12	0.0%
<i>Mutual Funds/UCITS</i>	6.2.13	0.5%	4.3.13	0.0%
<i>Other</i>	6.2.14	1.4%	4.3.14	0.3%

*Figures have been rounded to the nearest whole number, therefore, may be a slight difference in the Total Overcollateralization figure in the region of ±USD 1 billion.

†Total OC = $(IM_{Held} + DF_{Held}) - (IM_{Required} + DF_{Required})$ = Disclosures (6.2.15 + 4.3.15) – (6.1.1 + 4.1.4). Only Post-Haircut values are used for Held values.

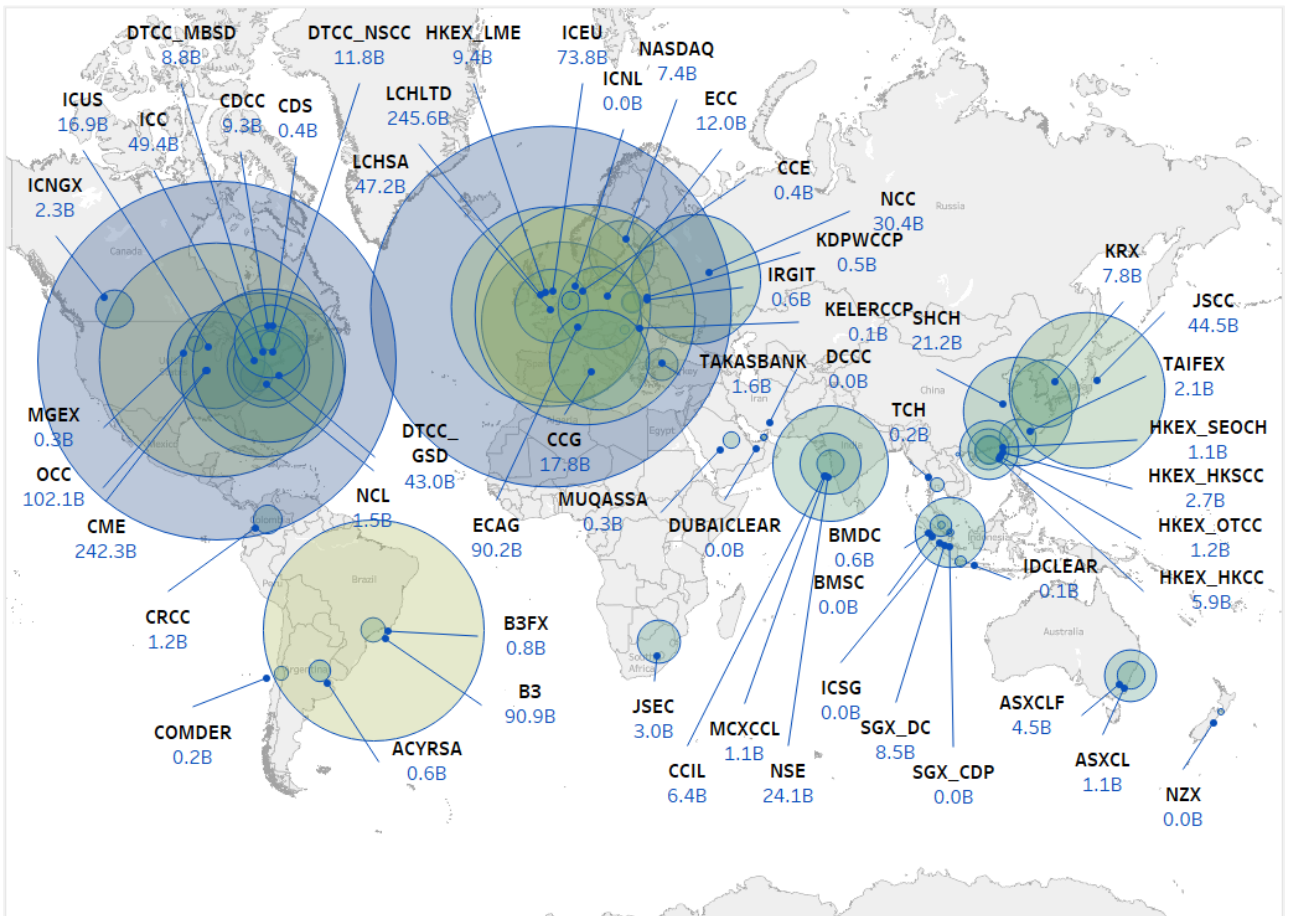
‡The sum of the % in the IM column ≠ 100% since: The sum of IM Held across 6.2.1 – 6.2.14 is lower than the Total IM Held Values for 6.2.15, due to certain PQDs not providing a breakdown of the IM held across these data points. This is also due to the following: 1) DTCC have requested that 6.2.15 figures be equivalent to 4.3.15 figures, therefore no breakdown for 6.2.1 – 6.2.14 is provided, and 2) OCC 6.2.15 total > sum of 6.2.1 – 6.2.14. As of 2023 Q3, all OCC "Pre-Haircut" figures for Client/House IM are considered "Post-Haircut", thus a clearer view of the proportions of IM held for 6.2.1 – 6.2.14 can be observed. Four other CCPs only provide totals for their 6.2.15 values. Data has been normalized to USD equivalent, based on a conversion from quarter-end FX rates provided by the ECB.

Collateral View

A collection of maps each quarter providing an overview of the global distribution of Initial Margin, Default Fund, and Variation Margin from a global perspective.

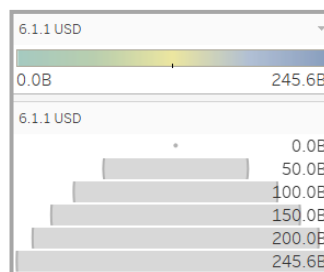
2024 Q1

6.1.1: Global IM (Required) Per CCP*



Note: 6.1.1 amounts which are less than USD 0.1B are not observable in the map. Please see the table below for the figures.

The coloured disks indicate the size of the IM (Required) (according to the key, opposite), from a geographical perspective.



6.1.1 IM values (not seen from map):

CCP	6.1.1 USD
CCP	6.1.1 USD
ICNL	0.00
ICSG	390,318.53
DUBAICLEAR	12,422,495.60
DCCC	13,018,988.00
NZX	15,321,128.43
BMSC	31,042,643.44
SGX_CDP	31,291,894.96
KELERCCP	61,972,752.42

*Based on the CCP's city location. For CCPs that are from the same city location, they are hidden behind the larger transparent disks.

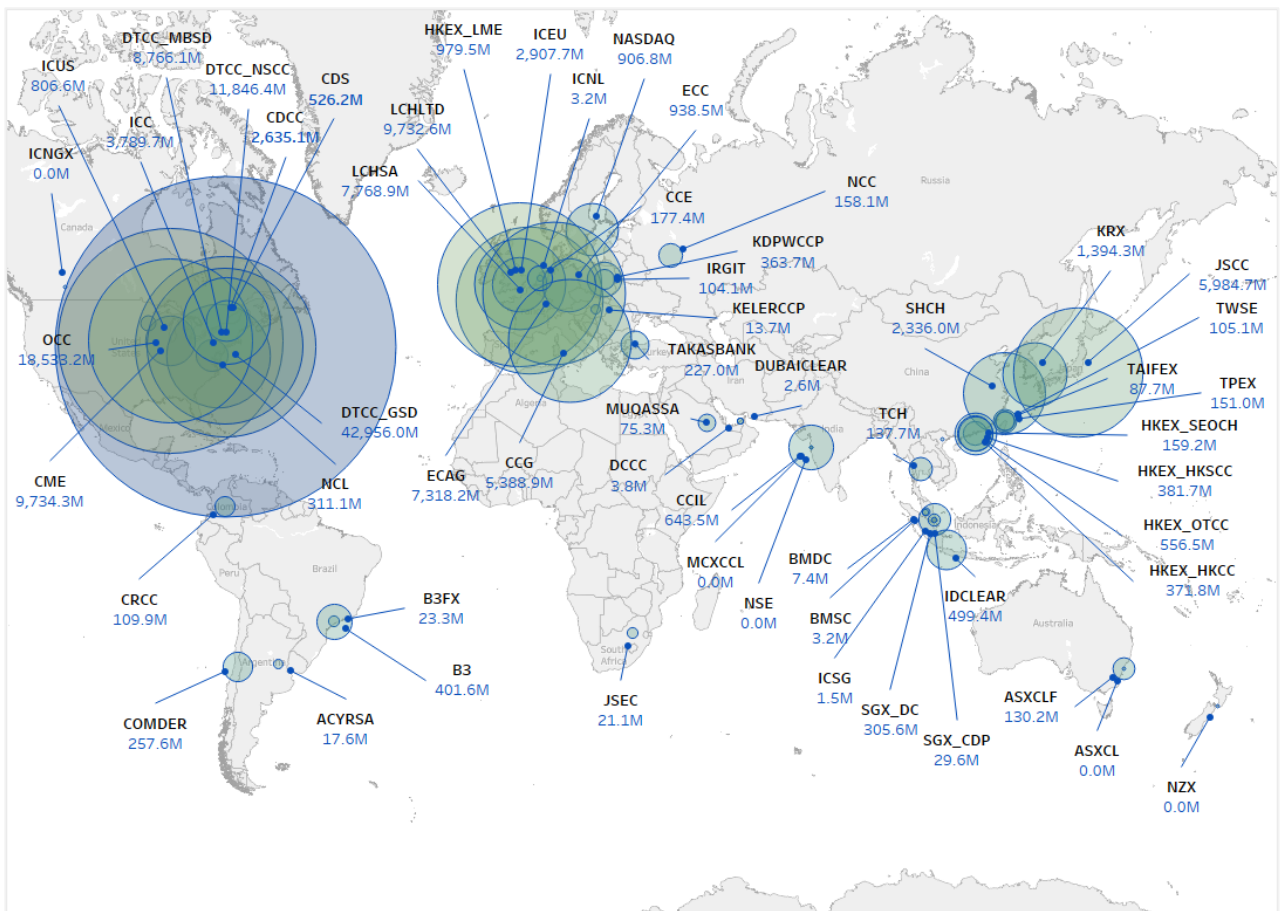
Muqassa: In some cases, the IM (Required) = 0 for certain quarters. This is due to certain reporting dates where there are no open contracts and hence no IM requirement for any members.

Collateral View

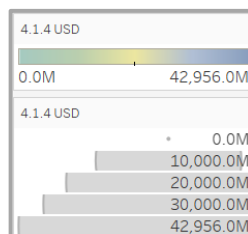
A collection of maps each quarter providing an overview of the global distribution of Initial Margin, Default Fund and Variation Margin from a global perspective.

2024 Q1

4.1.4: Global DF (Required) Per CCP*



The coloured disks indicate the size of the DF fund (Required) per CCP (according to the key, opposite), from a geographical perspective.



*Based on the CCP's city location. For CCPs that are from the same city location, they are hidden/overlaid behind the larger transparent disk. 4.1.4 DF (Required) is zero in the PQDs for ASXCL, ICNGX, MCXCLL, NSE, NZX. For further details, please see the respective CCP's PQD.

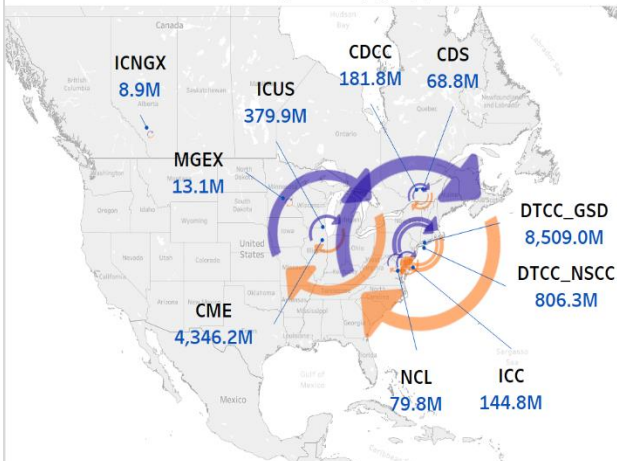
Collateral View

A collection of maps each quarter providing an overview of the global distribution of Initial Margin, Default Fund and Variation Margin from a global perspective.

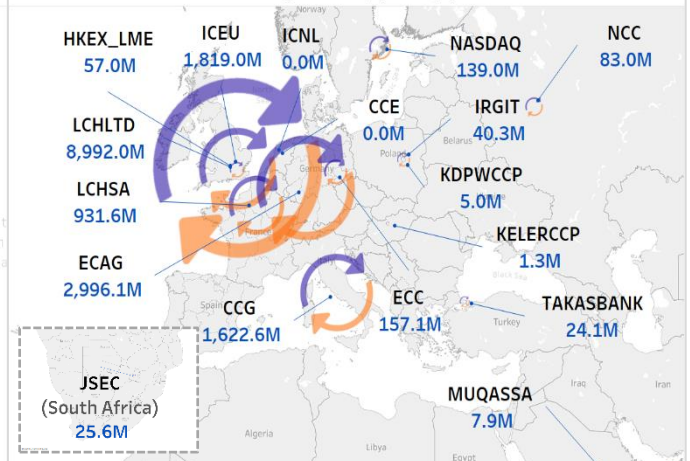
2024 Q1

6.6.1: Total VM Paid to the CCP by participants each business day*

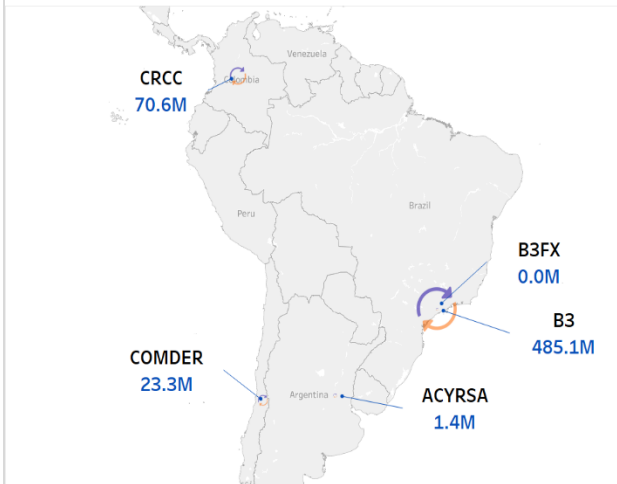
6.6.1: Sum of Total Global VM, Regional Map [U.S.], per CCP



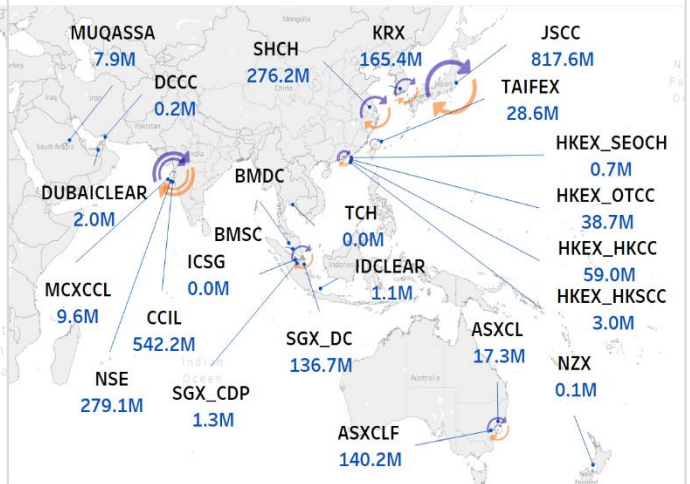
6.6.1: Sum of Total Global VM, Regional Map [EMEA], per CCP



6.6.1: Sum of Total Global VM, Regional Map [S. America], per CCP



6.6.1: Sum of Total Global VM, Regional Map [APAC], per CCP



Note: 6.6.1 amounts which are less than USD 0.1M are not observable in the map. Please see the table opposite.



The double arrows indicate the size of the variation margin (VM) flow from a geographical perspective*. Please see the footnote below and [page 15](#) for details about VM.

Maps *not* to scale relative to each other.

6.6.1 values < USD 100,000 (not seen from map):

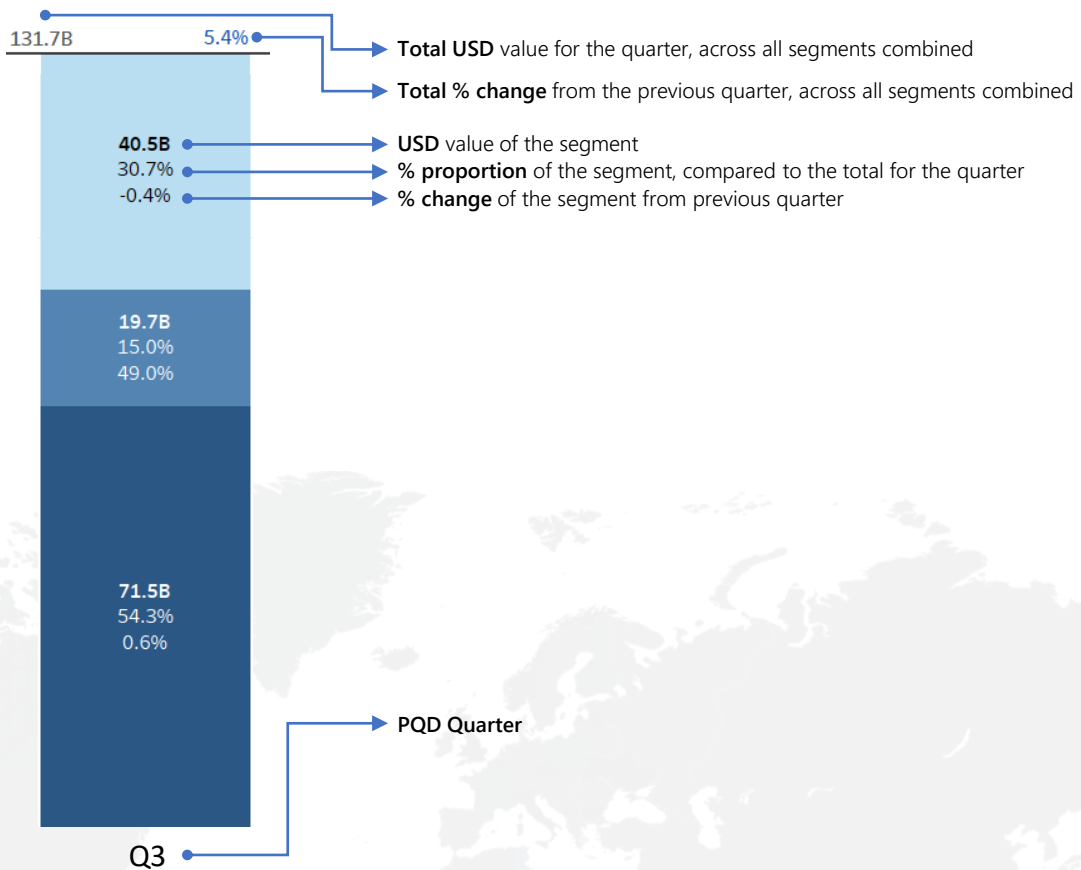
CCP	6.6.1 USD
CCP	6.6.1 USD
B3FX	0.00
ICNL	0.00
TCH	0.00
BMDC	0.00
BMSC	0.00
OCC	0.00
TPEX	0.00
TWSE	0.00
VSDC	0.00
ICSG	8,984.83
CCE	9,334.56

*CCPs collect VM from clearing members for losses on positions and pay the gains with finality to those clearing members with positions that have a net increase in value based on marked-to-market prices. VM is not paid directly from any specific clearing member or customer counterparty to another as a pass-through transfer, VM is a netted cash flow from a clearing member to (or from) the CCP. 6.6.1: OCC – See PQD explanatory notes. For values which are zero, these are based on the respective PQDs.

PQD Statistics Key

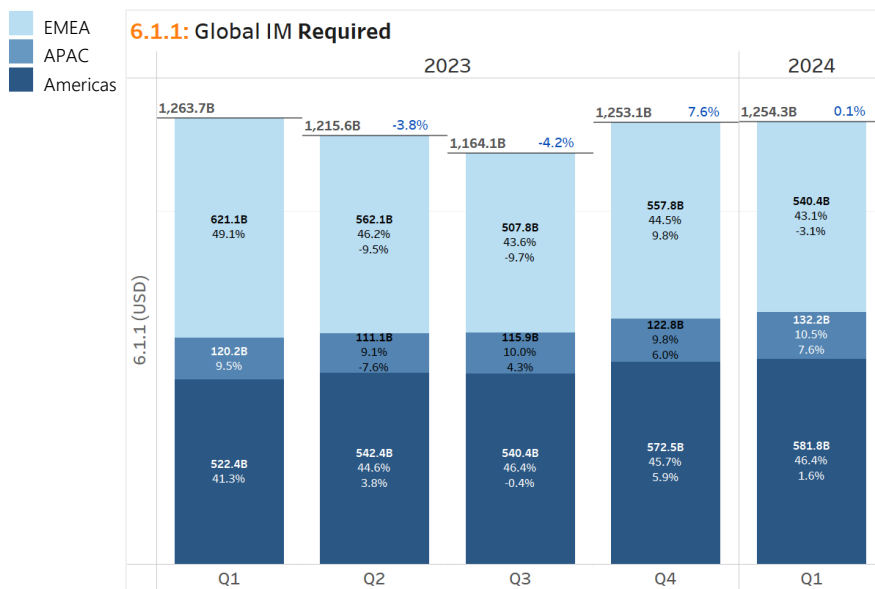
Bar Chart Key:

The key below provides details on how to interpret statistics in the subsequent charts of this report. The key is used for only charts where there are three data points per segment, as shown below:



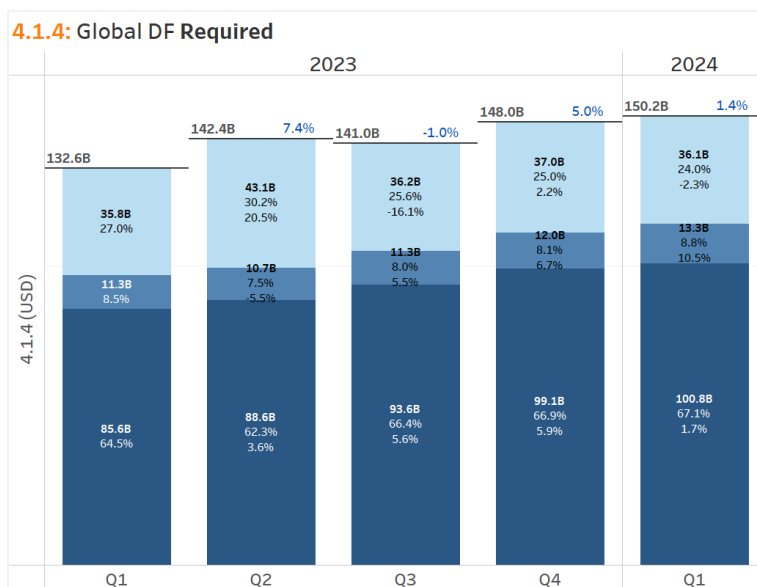
Total IM Required remains constant with a subtle increase of **+0.1%** for 2024 Q1. **DF Required** increased by **+1.4%** over the quarter.

Global CCP Collateral (Required) - Grand Total
2022 Q1 to 2023 Q1 (USD B, %)



The chart opposite (6.1.1: *Global IM Required*) indicates the total amount of initial margin in total for the CCPs by their clearing members across the respective regions which is reported at the quarter-end under disclosure 6.1.1 in the CCP Public Quantitative Disclosures.

The initial margin collateral posted by clearing members functions as one of the initial lines of defence to cover the potential losses incurred if that clearing member was to default. CCPs are therefore able to have a very high level of resilience in the form of liquidity and low risk exposure.



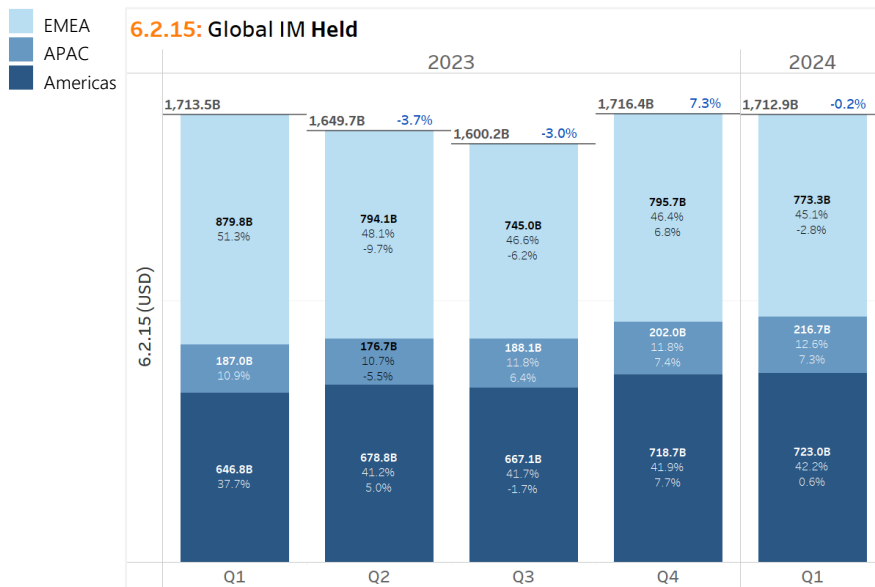
The chart opposite (4.1.4: *Global DF Required*) indicates the total amount of default fund contributions in total for the CCPs by their clearing members across the respective regions which is reported at the quarter-end under disclosure 4.1.4 in the CCP Public Quantitative Disclosures.

The purpose of the mutualized CCP default fund is to provide the necessary funds in case the losses from a clearing member's default exceeds the clearing member's margin collateral and individual default fund contributions. It is part of the risk management incentives framework in central clearing.

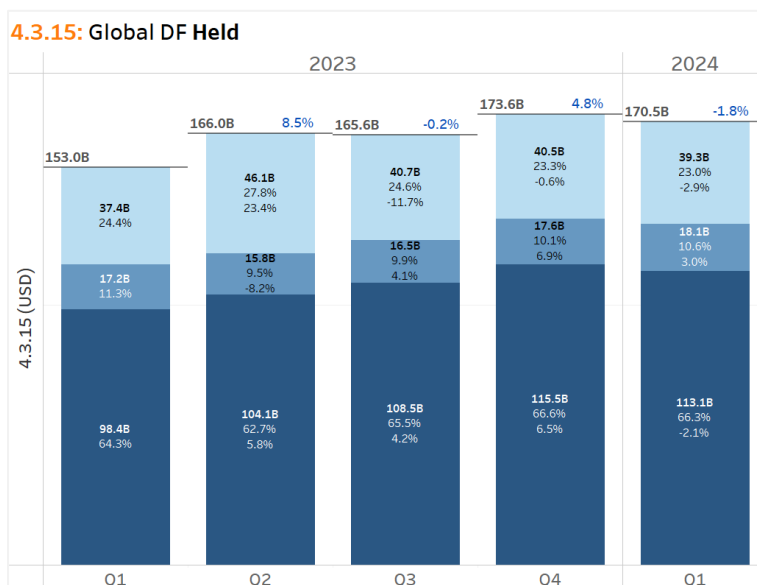
More information regarding the CCP lines of defence can be found on the CCP Global website [here](#).

Total IM Held remains constant with a subtle decrease of **-0.2%** for 2024 Q1. **DF Held** decreased by **-1.8%**. Distribution of IM Held is consistently the largest for EMEA, followed by Americas & APAC.

Global CCP Collateral (Held) (PostHaircut) - Grand Total
2023 Q1 to 2024 Q1 (USD B, %)



The chart opposite (6.2.15: *Global IM Held*) indicates the total amount of initial margin in total for the CCPs by their clearing members across the respective regions which is reported at the quarter-end under disclosure 6.2.15 in the CCP Public Quantitative Disclosures..



The chart opposite (4.3.15: *Global DF Held*) indicates the total amount of default fund contributions in total for the CCPs by their clearing members across the respective regions which is reported at the quarter-end under disclosure 4.3.15 in the CCP Public Quantitative Disclosures.

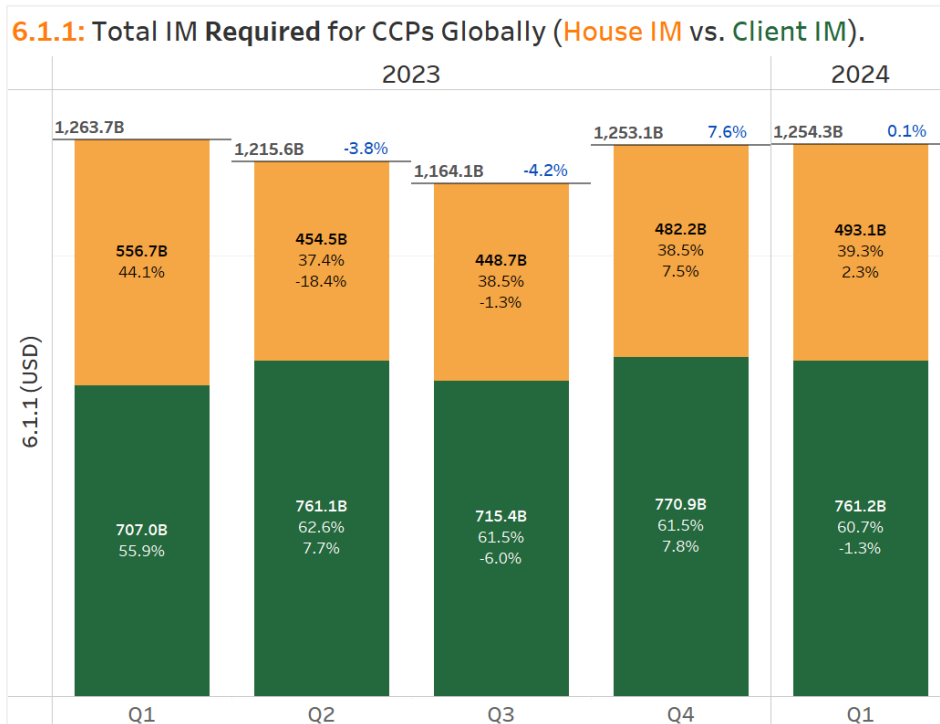
From the House IM vs Client IM split, House IM increased by **+2.3%**. Client IM decreased by **-1.3%**. House IM accounted for 39.3% of the margin requirement, compared to 60.7% for Client IM.

Global IM breakdown: House IM vs. Client IM (Required)

Disclosure (6.1.1):

2023 Q1 to 2024 Q1 (USD B, %)

- House IM
- Client IM



The chart above (6.1.1: Total IM required for CCPs Globally (House IM vs. Client IM)) indicates a split between House and Client IM which is reported at the quarter-end under disclosure 6.1.1.

The House IM segment is the initial margin requirement for positions held by clearing members for their own portfolios, as opposed to the initial margin requirement for the clearing member's clients. House Gross/Net and Client Gross/Net are grouped for the purpose of analysis.

*The sum of IM Required is slightly lower than the Total IM Required (previous page), due to no breakdown of House/Client IM Required for HKEX HKSCC, HKEX OTCC, and NSE. As a result, these are assumed House IM.

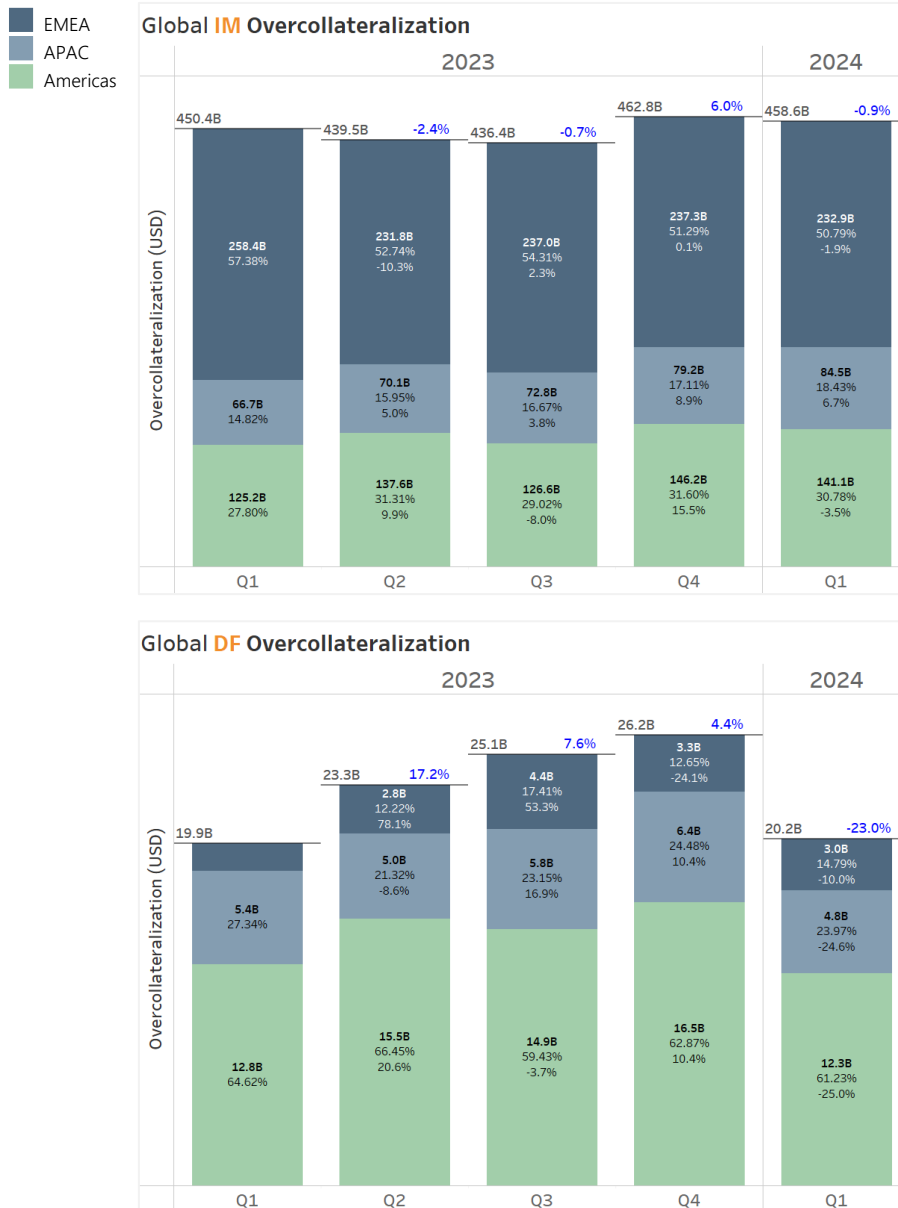
Global IM Overcollateralization (“OC”) was USD 458.6B for 2024 Q1, representing a decrease of -0.9% from the previous quarter. Global DF OC was USD 20.2B for 2024 Q1, representing a decrease of -23.0%.

Global CCP IM and DF Overcollateralization*

Disclosures IM OC: (6.2.15) – (6.1.1)

Disclosures DF OC: (4.3.15) – (4.1.4)

2023 Q1 to 2024 Q1 (USD B, %)

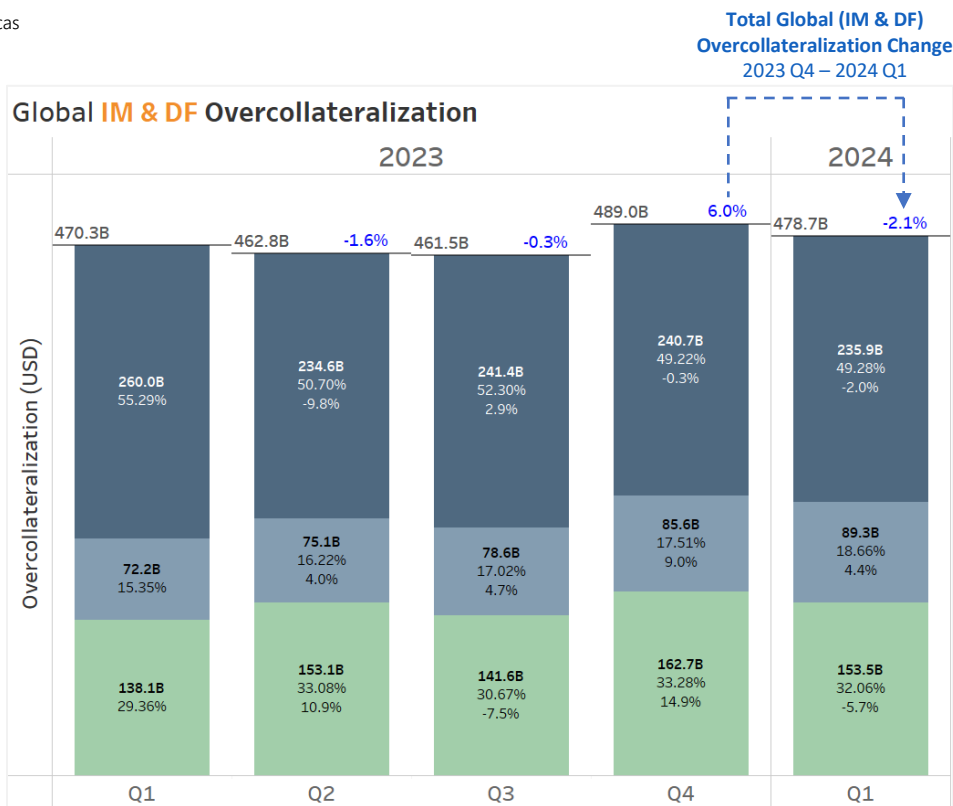


*IM OC calculated as = $(IM_{Held} - IM_{Required})$, (6.2.15 Held PostHaircut) - (6.1.1 Required). DF OC = $(DF_{Held} - DF_{Required})$, (4.3.15 Held PostHaircut) - (4.1.4 Required). (Only Post-Haircut values used for Held values). OC: *Overcollateralization*.

Total Overcollateralization* was USD 478.7B for 2024 Q1, representing a decrease of **-2.1%** from the previous quarter.

Global CCP Overcollateralization (IM & DF Held (PostHaircut) – IM & DF Required) Disclosures Total OC: (6.2.15 + 4.3.15) – (6.1.1 + 4.1.4) 2023 Q1 to 2024 Q1 (USD B, %)

- EMEA
- APAC
- Americas



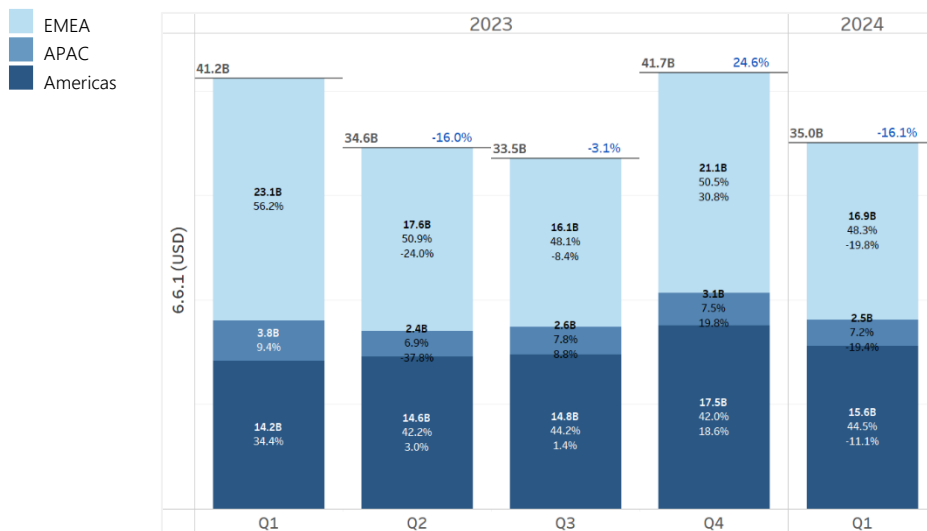
The chart above (*Global CCP Overcollateralization (IM and DF Held PostHaircut)*) indicates an overview of the IM and DF overcollateralization per region, reported at the quarter-end.

Global CCP Overcollateralization provides a sense of how a CCP is collateralized when comparing the held amounts against the required amounts. The Total Global CCP Overcollateralization calculation is equivalent to PQD disclosures (6.2.15+4.3.15) – (6.1.1+4.1.4).

*Calculated as, Total OC = (IM_{Held}+DF_{Held}) – (IM_{Required}+DF_{Required}) = Disclosures (6.2.15 + 4.3.15) – (6.1.1 + 4.1.4). Only Post-Haircut values are used for Held values.
OC: Overcollateralization

Sum of the Average Total VM Paid to the CCP by participants each business day in 2024 Q1 was USD 35.0B, representing a decrease of -16.1%.

Sum of Average Total Global VM Paid to the CCP by participants each business day† Disclosure (6.6.1) 2023 Q1 to 2024 Q1 (USD B, %)

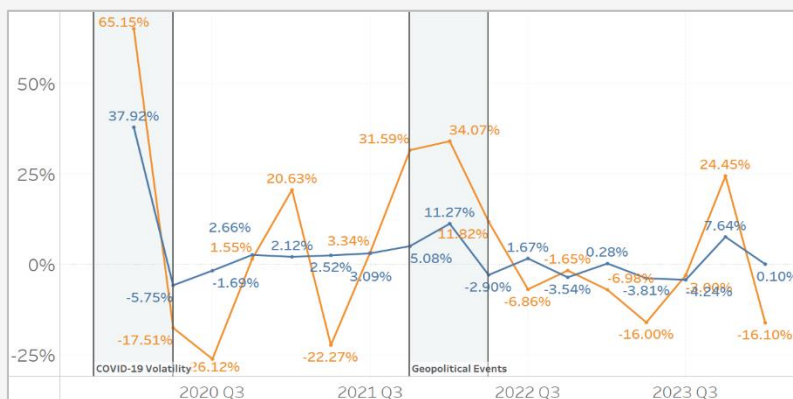


The chart opposite, (6.6.1: Sum of Average Total Global VM Paid to the CCP by Participants Each Business Day) indicates the sum total flow of the average variation margin through global CCPs split by region.

Variation margin payments are usually made daily (in cash) or intra-day from the party whose position has reduced in value to the party that has increased in value.

These daily mark-to-market payments prevent the unnecessary build-up of large losses over time and are one of the many different aspects of a CCP's lines of defence.

6.6.1 vs. 6.1.1: Sum of Total Global VM Paid to the CCP by participants each business day vs. Total IM (Required), % Change QoQ† 2019 Q4 to 2024 Q1 (% change)



The chart opposite, 6.6.1 vs. 6.1.1: % Difference QoQ, provides a summary of the % change of the Total Global VM Paid to the CCP by participants each business day and the Total IM (Required).

It is important to note that during extreme volatility periods such as the CC* or 2022 Q1 geopolitical turmoil, global volatility indices (e.g., VIX, VSTOXX, and NIKKEI VI), have seen much higher increases in comparison. Please see the [CCP Global Annual Markets Review in Central Counterparty Clearing](#).

VM: Variation Margin

*CC: COVID-19 crisis in 2020 Q1. Global VM 6.6.1 increased 65.15%, represented by USD 40.9 B – please see the [CCP Global 2020 Q1 PQD Newsflash](#).

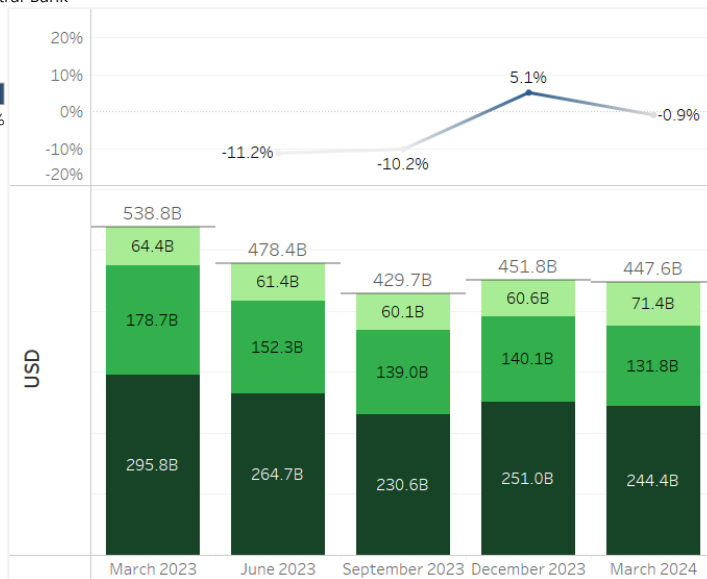
†Note: This is the sum total of the average VM paid out to the CCP by participants each business day across the respective regions. Not the average per CCP per region.

Total Cash Held* for IM decreased by **-0.9%** for 2024 Q1. Majority of all cash resources have continued to be deposited at Central Banks†.

6.2.1 – 6.2.4: Global CCP IM (Held) (PostHaircut), Cash Total 2023 Q1 to 2024 Q1 (USD B, % change QoQ)

- (6.2.4) Unsecured at Commercial Banks
- (6.2.3) Secured Cash at Commercial Banks (Incl. Reverse Repos)
- (6.2.1 + 6.2.2) Central Bank†

Total % Change QoQ
NegΔ% PosΔ%

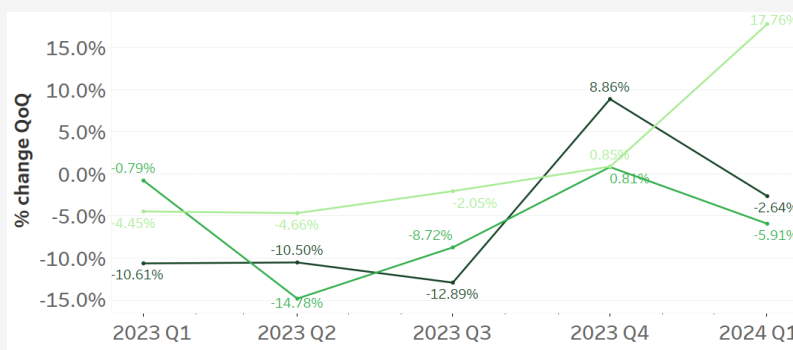


The chart opposite, (6.2.1 – 6.2.4: Global CCP IM (Held) (PostHaircut), Cash Total) provides an overview of the split of IM (Held) deposits at central banks and commercial banks under disclosures 6.2.1 – 6.2.4.

Central Bank accounts are widely agreed by the industry and regulatory community as the safest option for the safekeeping of CMs' margin. Many CCPs maintain large daily cash balances and although the CCPs continue to operate extensive collateral management functions to ensure the safety of the margin that they receive, direct access to a central bank account would only enhance this security further.

- (6.2.4) Δ%
- (6.2.3) Δ%
- (6.2.1) + Δ%

6.2.1 – 6.2.4: Global Cash IM (Held) (PostHaircut), % Difference QoQ per segment 2023 Q1 to 2024 Q1 (% change)



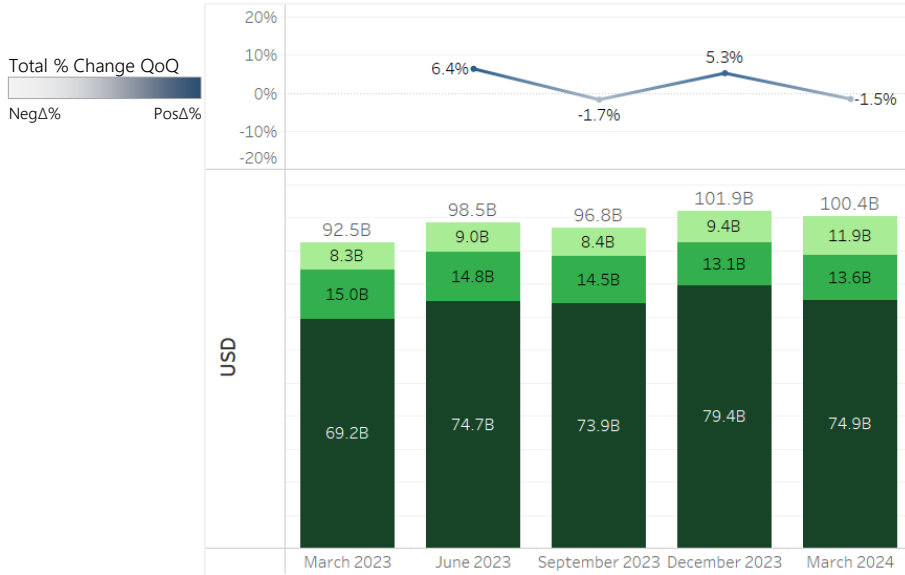
The chart opposite (6.2.1 – 6.2.4: Global Cash IM (Held) (PostHaircut), % Difference QoQ per segment) provides an overview of the quarterly change of IM (Held) deposits.

*Figures as of quarter-end. Sum of IM Held across 6.2.1 – 6.2.14 is slightly lower than the Total IM Held Values for 6.2.15, due to: (1). DTCC have requested that 6.2.15 figures be equivalent to 4.3.15 figures, (2). For OCC 6.2.15 total > sum of 6.2.1 – 6.2.14. TCH provide the full breakdown of 6.2.15 split across 6.2.1 – 6.2.14 as of 2020 Q2.
†Cash deposited at "Other Central Bank of Issue" (IM: 6.2.2, DF: 4.3.2) makes up <0.5% of the total cash collateral for IM and <0.5% for the DF. Therefore, "Central Bank of Issue" and "Other Central Bank" Cash deposits grouped together within charts.

Total Cash Held* for DF decreased by **-1.5%** for 2024 Q1. Majority of all cash resources have continued to be deposited at Central Banks†.

4.3.1 – 4.3.4: Global CCP DF (Held) (PostHaircut), Cash Total 2023 Q1 to 2024 Q1 (USD B, % change QoQ)

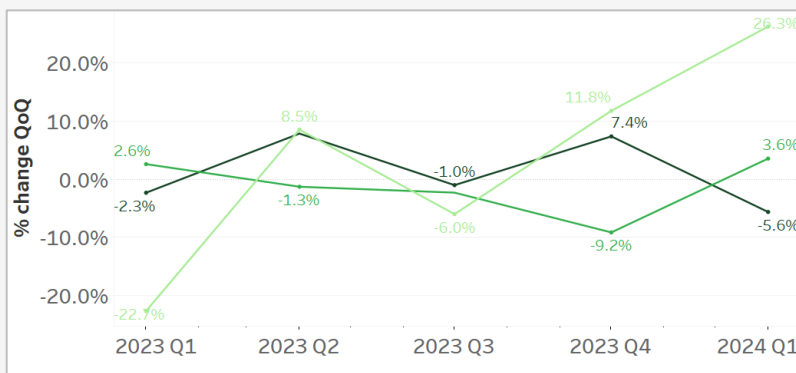
- (4.3.4) Unsecured at Commercial Banks
- (4.3.2) Secured Cash at Commercial Banks (Incl. Reverse Repos)
- (4.3.1 + 4.3.2) Central Bank†



The chart opposite, (4.3.1 – 4.3.4: Global CCP DF (Held) (PostHaircut), Cash Total) provides an overview of the split of DF (Held) deposits at central banks and commercial banks under disclosures 4.3.1 – 4.3.4.

- (4.3.4) Δ%
- (4.3.3) Δ%
- (4.3.1)+ Δ%

4.3.1 – 4.3.4: Global Cash DF (Held), % Difference QoQ per segment 2023 Q1 to 2024 Q1 (% change)

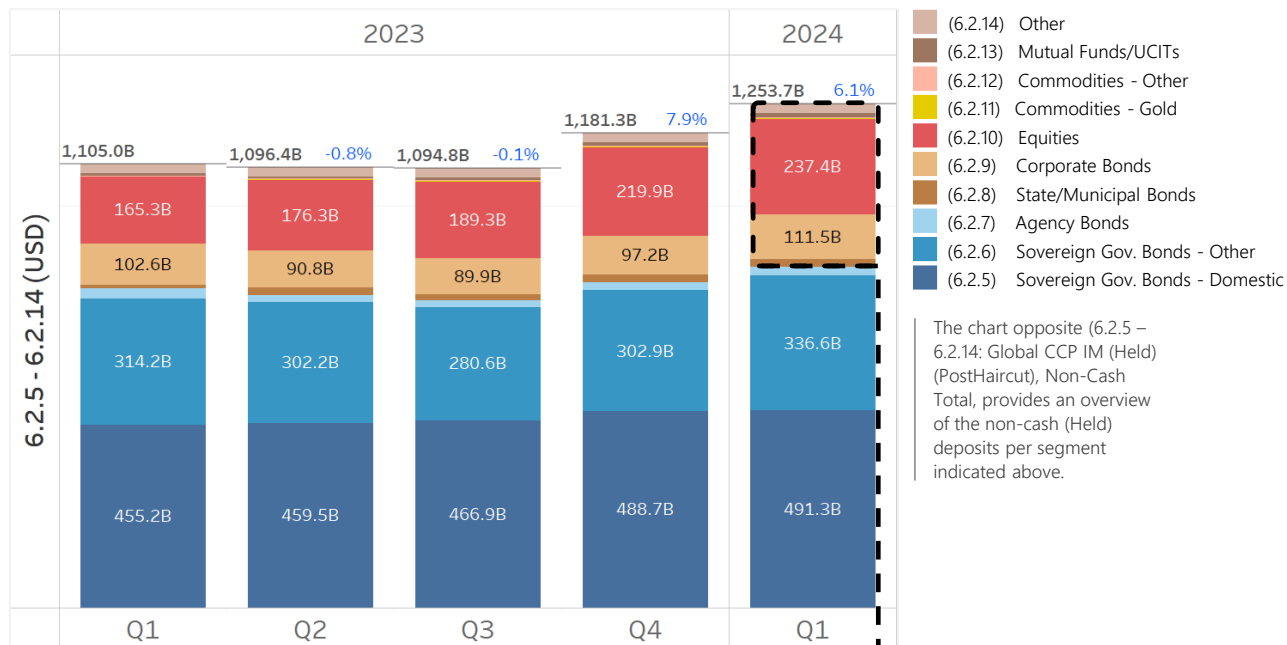


The chart opposite (4.3.1 – 4.3.4: Global Cash DF (Held), % Difference QoQ per segment) provides an overview of the quarterly change of DF (Held) deposits.

*Figures as of quarter-end. The sum of IM Held across 6.2.1 – 6.2.14 is slightly lower than the Total IM Held Values for 6.2.15, due to: (1). DTCC has requested that 6.2.15 figures be equivalent to 4.3.15 figures, (2). For OCC 6.2.15 total > sum of 6.2.1 – 6.2.14. TCH provides the full breakdown of 6.2.15 split across 6.2.1 – 6.2.14 as of 2020 Q2. †Cash deposited at "Other Central Bank of Issue" (IM: 6.2.2, DF: 4.3.2) makes up <0.5% of the total cash collateral for IM and <0.5% for the DF. Therefore, "Central Bank of Issue" and "Other Central Bank" Cash deposits are grouped together within charts.

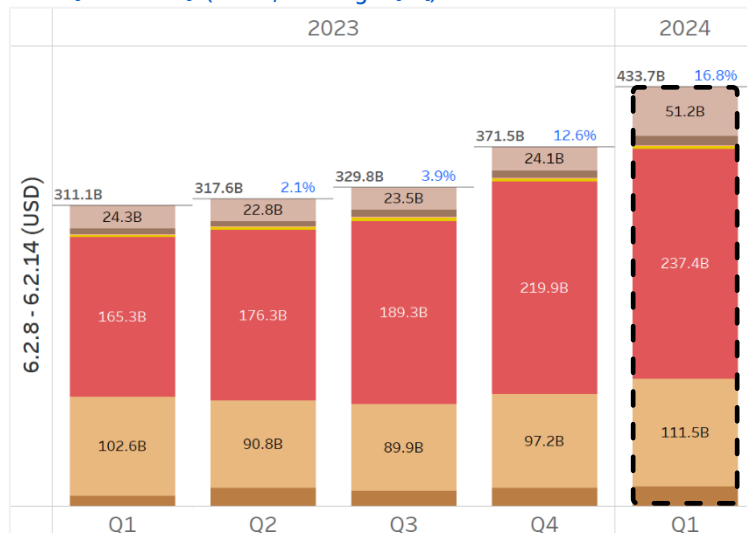
During 2024 Q1, total global **Non-Cash IM Held** increased by **+6.1%**. The split across each segment has remained similar from the previous quarter.

6.2.5 – 6.2.14: Global CCP IM (Held) (PostHaircut), Non-Cash Total 2023 Q1 to 2024 Q1 (USD B, % change QoQ)



The chart opposite (6.2.5 – 6.2.14: Global CCP IM (Held) (PostHaircut), Non-Cash Total, provides an overview of the non-cash (Held) deposits per segment indicated above.

6.2.8 – 6.2.14: Global CCP IM (Held) (PostHaircut), Non-Cash Total 2023 Q1 to 2024 Q1 (USD B, % change QoQ)

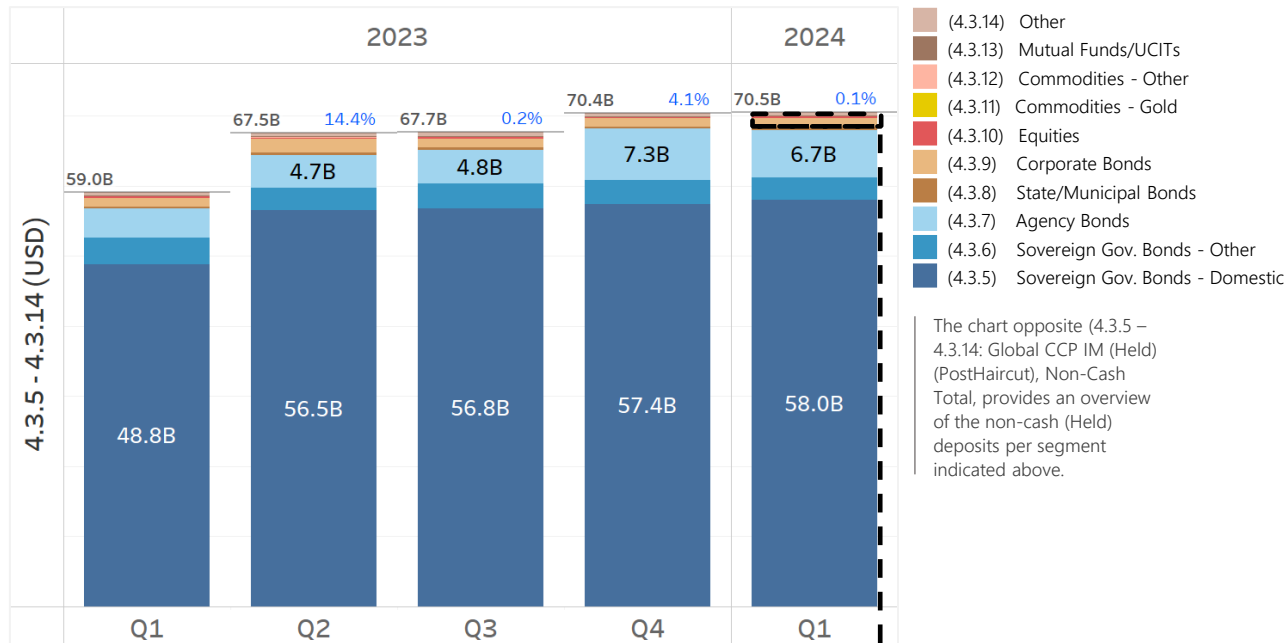


The chart opposite (6.2.8 – 6.2.14: Global CCP IM (Held) (PostHaircut), Non-Cash Total, provides a detailed view of the non-cash (Held) deposits for segments between 6.2.8 and 6.2.14.

*Figures as of quarter end. The sum of IM Held across 6.2.1 – 6.2.14 is lower than the Total IM Held Values for 6.2.15, due to certain PQDs not providing a breakdown of the IM held across these data points. This is also due to the following: 1). DTCC has requested that 6.2.15 figures be equivalent to 4.3.15 figures, therefore no breakdown for 6.2.1 – 6.2.14 is provided, and 2). OCC 6.2.15 total > sum of 6.2.1 – 6.2.14. As of 2023 Q3 all OCC "PreHaircut" figures for Client/House IM are considered "PostHaircut", thus a clearer view of the proportions of IM held for 6.2.1 – 6.2.14 can be observed. TCH provides the full breakdown of 6.2.15 split across 6.2.1 - 6.2.14 as of 2020 Q2.

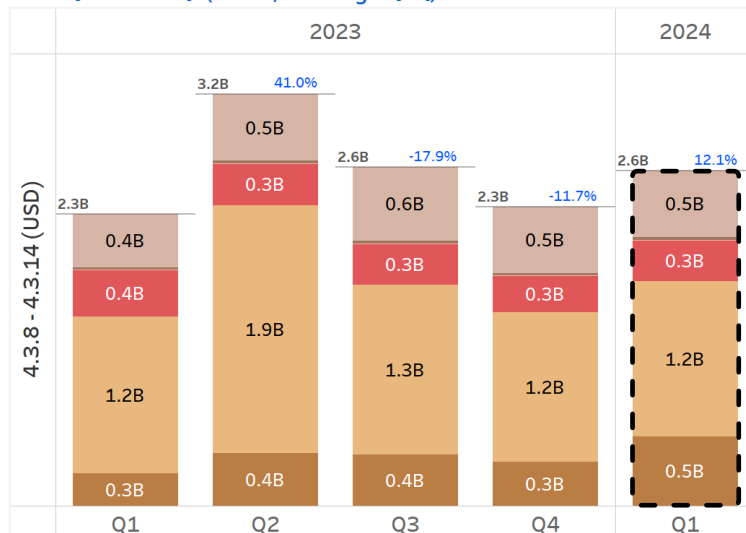
During 2024 Q1, total global **Non-Cash DF Held** increased by **+0.1%**. The split across each segment has remained similar from the previous quarter.

4.3.5 – 4.3.14: Global CCP DF (Held) (PostHaircut), Non-Cash Total 2023 Q1 to 2024 Q1 (USD B, % change QoQ)



The chart opposite (4.3.5 – 4.3.14: Global CCP IM (Held) (PostHaircut), Non-Cash Total, provides an overview of the non-cash (Held) deposits per segment indicated above.

4.3.8 – 4.3.14: Global CCP DF (Held) (PostHaircut), Non-Cash Total 2023 Q1 to 2024 Q1 (USD B, % change QoQ)



The chart opposite (4.3.8 – 4.3.14: Global CCP IM (Held) (PostHaircut), Non-Cash Total, provides a detailed view of the non-cash (Held) deposits for segments between 6.2.8 and 6.2.14.

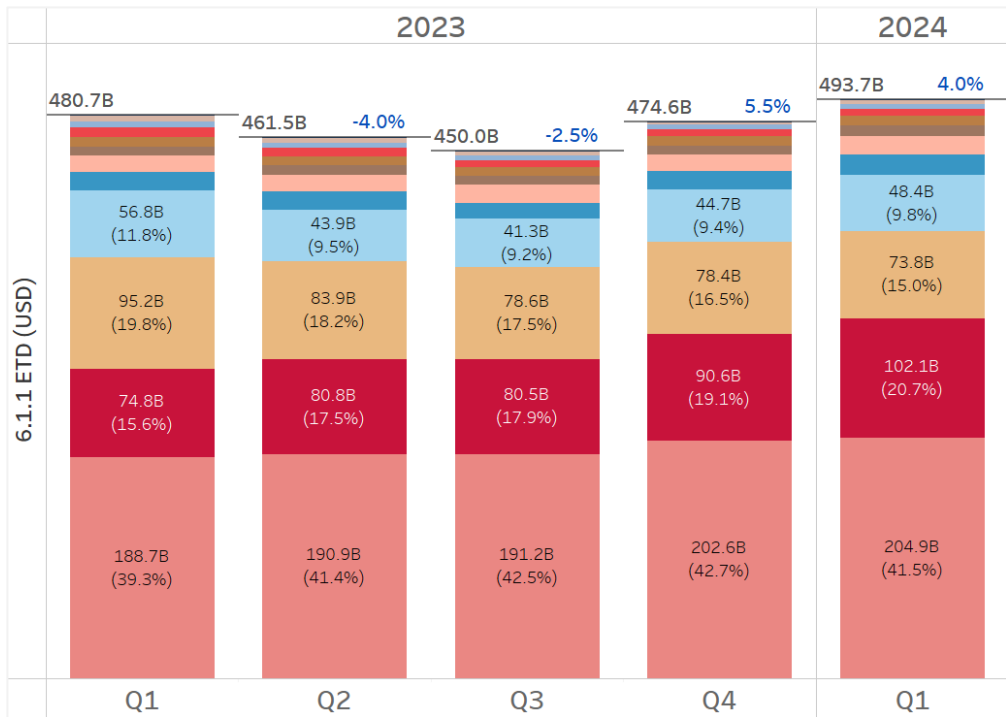
*Figures as of quarter end. Sum of IM Held across 6.2.1 – 6.2.14 is slightly lower than the Total IM Held Values for 6.2.15, due to 1). DTCC have requested that 6.2.15 figures be equivalent to 4.3.15 figures, and 2). OCC 6.2.15 total > sum of 6.2.1 – 6.2.14. TCH provide the full breakdown of 6.2.15 split across 6.2.1 - 6.2.14 as of 2020 Q2.

†Disclosures 4.3.8 – 4.3.14 constitute on average <1.5% of total non-cash collateral per quarter.

For 2024 Q1 the IM required for ETDs across the following selected 12 CCPs increased by **+4.0%**. Proportion of IM across each CCP has remained consistent QoQ.

Global CCP IM (Required) Collateral for ETDs across selected CCPs Disclosure (6.1.1)
2023 Q1 to 2024 Q1 (USD B, % change QoQ)

- HKEX_SEOCH
- ASXCLF
- HKEX_HKCC
- SGX_DC
- JSCC
- LCHLTD
- ICUS
- LCHSA
- ECAG
- OCC
- ICEU
- CME



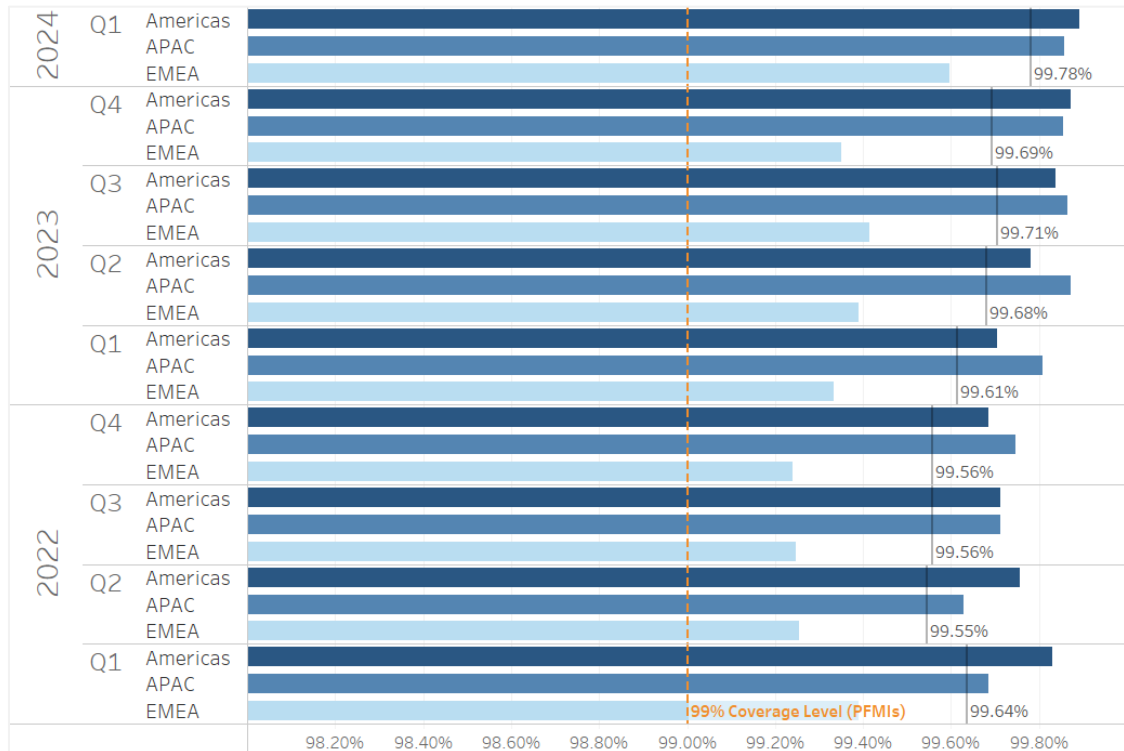
The chart above (6.1.1: Global CCP IM (Required) Collateral for ETDs across selected CCPs) provides a summary of the IM required for ETDs across a number of selected CCPs chosen for a global geographical representation.

ETD: Exchange-traded derivatives
Data has been updated as of 2023-09-07 to accurately reflect the IM Required for ETDs – LCHLTD and LCHSA
Selected CCPs chosen for a geographical representation across multiple jurisdictions

Results of backtesting of initial margin (ACL - Achieved Coverage Level) reached **99.78%** (on average) across all regions for 2024 Q1, higher than the previous quarter.

Results of backtesting of initial margin – ACL*
Disclosure (6.5.3)
2022 Q1 to 2024 Q1 (%)

- EMEA
- APAC
- Americas



The chart above (Results of backtesting of Initial Margin – Achieved Coverage Level). Backtesting is an important technique that a CCP utilizes to ensure that its initial margin model is performing as expected and that the assumptions within the model are valid. A CCP should assess its initial margin coverage by performing an ex-post comparison of observed profit and loss moves of a given portfolio against the initial margin collected.

According to the [Principles for Financial Market Infrastructures](#), a 99.00% coverage of backtesting is used as a benchmark to assess the efficiency of the initial margin model, however, a CCP may use a higher (percentile) benchmark. As can be seen from the above metrics, global CCPs on average have achieved above 99.00% in all instances from recent years.

For further information, please see the [CCP Global White Paper – Primer on Initial Margin](#).

*Average has been taken across all CCPs within each respective region.

CCPs reported availability to core clearing systems of **99.96%** over the previous 12-month period. The same as last quarter*

Availability, Failures and Recovery Time Objectives 2024 Q1

CCPs report the quantity and duration of operational failures affecting their core clearing systems over the previous 12-months on a quarterly basis:

- **Core Systems:** Within clearing, systems enable the acceptance and novation of trades, and provide the calculation of margin and settlement obligations;
- **Loss of Availability:** An incident that results in an interruption to the CCP’s ability to perform its own functions in relation to trade acceptance and novation, or calculation of margin and settlement obligations. An incident that compromises the CCP’s ability to correctly perform the aforementioned functions is also considered a ‘loss of availability’, even if there is no actual outage. Failure to a backup site without interruption to services would not count as a loss of availability.

Disclosure (17.2):

The average actual core clearing system availability over the previous twelve-month period (April 1, 2023, through March 31, 2023) across CCP PQDs this quarter was: **99.96%**

Disclosure (17.4):

60 CCP PQDs representing 38 CCP Global Members & 3 Non-Members[†]

CCP count [1] - Target recovery time within:	34 mins
CCP count [2] - Target recovery time within:	45 mins
CCP count [2] - Target recovery time within:	60 mins
51 CCPs observe the standard target recovery time of within:	120 mins
CCP count [1] - Target recovery time within:	222 mins
CCP count [1] - Target recovery time within:	240 mins
CCP count [2] - Target recovery time within:	12 hrs

According to the [Principles for Financial Market Infrastructures](#), the objectives of a CCP’s business continuity plan should detail the system’s target recovery time (“TRT”) and recovery point information. Based on the PFMI’s, a CCP should aim to be able to resume operations within two hours following a disruptive event(s); however, backup systems should preferably commence processing immediately upon such a disruption.

As seen from the above table, the majority of global CCPs have a target recovery time set as two hours or shorter; with only four CCPs observing a slightly longer TRT based on their respective regulatory requirements.

*For 2023 Q4, the average availability of core clearing systems over the period (January 1, 2023, through December 31, 2023) across all CCPs was 99.96%.
†All figures are based on the respective CCP’s regulatory requirements in their local jurisdiction. CC&G, IRGIT and NCC data are incorporated as non-CCP Global members.

CCP Global Member List*

CCPG Member	CCP Mnemonic	Region	Country	CCP Name & PQD Hyperlink
ACYRSA	ACYRSA	Americas	Argentina	Argentina Clearing y Registro S.A.
ASX	ASXCL	APAC	Australia	Australia Securities Exchange Clear
ASX	ASXCLF	APAC	Australia	Australia Securities Exchange Clear Futures
B3	B3	Americas	Brazil	Brasil, Bolsa, Balcão (BM&FBOVESPA Clearinghouse)
B3	B3FX	Americas	Brazil	Brasil, Bolsa, Balcão (Foreign Exchange Clearinghouse)
BMAL	BMDC	APAC	Malaysia	Bursa Malaysia Derivatives Clearing
BMAL	BMSC	APAC	Malaysia	Bursa Malaysia Securities Clearing
CBOECLER	CCE	EMEA	Netherlands	Cboe Clear Europe N.V. (Cboe Clear)
CCIL	CCIL	APAC	India	The Clearing Corporation of India Ltd.
CME	CME	Americas	United States of America	Chicago Mercantile Exchange
COMDER	COMDER	Americas	Chile	ComDer Contraparte Central S.A.
CRCC	CRCC	Americas	Colombia	Cámara de Riesgo Central de Contraparte S.A.
DCCC	DCCC	EMEA	United Arab Emirates	The Dubai Commodities Clearing Corporation
DUBAICLEAR	DUBAICLEAR	EMEA	United Arab Emirates	Dubai Clear
DTCC	DTCC_GSD	Americas	United States of America	Depository Trust and Clearing Corporation – Government Securities Division Solutions
DTCC	DTCC_MBSD	Americas	United States of America	Depository Trust and Clearing Corporation – Mortgage-Backed Securities Division
DTCC	DTCC_NSCC	Americas	United States of America	Depository Trust and Clearing Corporation – National Securities Clearing Corporation
ECAG	ECAG	EMEA	Germany	Eurex Clearing Group
ECAG	ECC	EMEA	Germany	European Commodity Clearing
ECAG	NCL	Americas	United States of America	Nodal Clear
HKEX	HKEX_HKCC	APAC	Hong Kong	HKFE Clearing Corporation Limited
HKEX	HKEX_HKSCC	APAC	Hong Kong	Hong Kong Securities Clearing Company Limited
HKEX	HKEX_LME	EMEA	United Kingdom	The London Metal Exchange
HKEX	HKEX_OTCC	APAC	Hong Kong	OTC Clearing Hong Kong Limited
HKEX	HKEX_SEOCH	APAC	Hong Kong	The SEHK Options Clearing House Limited
ICE	ICC	Americas	United States of America	ICE Clear Credit
ICE	ICEU	EMEA	United Kingdom	ICE Clear Europe
ICE	ICNGX	Americas	Canada	ICE Clear Canada
ICE	ICNL	EMEA	Netherlands	ICE Clear Netherlands
ICE	ICSG	APAC	Singapore	ICE Clear Singapore
ICE	ICUS	Americas	United States of America	ICE Clear US
IDCLEAR	IDCLEAR	APAC	Indonesia	ID Clear
NON-MEMBER*	IRGIT	EMEA	Poland	Izba Rozliczeniowa Gield Towarowych S.A. (IRGIT, Clearing House)
JSCC	JSCC	APAC	Japan	Japan Securities Clearing Corporation
JSE	JSEC	EMEA	South Africa	Johannesburg Stock Exchange
KASE	KASE	EMEA	Kazakhstan	Kazakhstan Stock Exchange JSC
KELER	KELERCCP	EMEA	Hungary	KELER CCP
KDPWCCP	KDPWCCP	EMEA	Poland	KDPW CCP
KRX	KRX	APAC	South Korea	Korea Exchange
LSEG	LCHLTD	EMEA	United Kingdom	London Clearing House Ltd.
LSEG	LCHSA	EMEA	France	London Clearing House S.A.
MCXCCL	MCXCCL	APAC	India	Multi Commodity Exchange Clearing Corporation Limited
MGEX	MGEX	Americas	United States of America	Minneapolis Grain Exchange
MUQASSA	MUQASSA	EMEA	Saudi Arabia	Securities Clearing Center Company (Mugassa)
NASDAQ	NASDAQ	EMEA	Sweden	Nasdaq Clearing
NON-MEMBER*	NCC	EMEA	Russia	Central Counterparty National Clearing Centre
NON-MEMBER*	CCG	EMEA	Italy	Cassa di Compensazione e Garanzia S.p.A.
NSE	NSE	APAC	India	NSE Clearing Limited
NZX	NZX	APAC	New Zealand	New Zealand Exchange
OCC	OCC	Americas	United States of America	The Options Clearing Corporation
SGX	SGX_CDP	APAC	Singapore	Singapore Exchange (Central Depository (Pte) Limited)
SGX	SGX_DC	APAC	Singapore	Singapore Exchange (Derivatives Clearing)
SHCH	SHCH	APAC	China	Shanghai Clearing House
TAIFEX	TAIFEX	APAC	Taiwan	Taiwan Futures Exchange (Taifex)
TAKASBANK	TAKASBANK	EMEA	Turkey	Takasbank
TCH	TCH	APAC	Thailand	Thailand Clearing House Co. Ltd.
TMX	CDS	Americas	Canada	TMX Group - Canadian Depository for Securities Limited (CDS Ltd.)
TMX	CDCC	Americas	Canada	TMX Group - Canadian Derivatives Clearing Corporation (CDCC)
TPEX	TPEX	APAC	Taiwan (R.O.C.)	TPEX
TWSE	TWSE	APAC	Taiwan (R.O.C.)	TWSE
VSD	VSDC	APAC	Vietnam	Vietnam Securities Depository

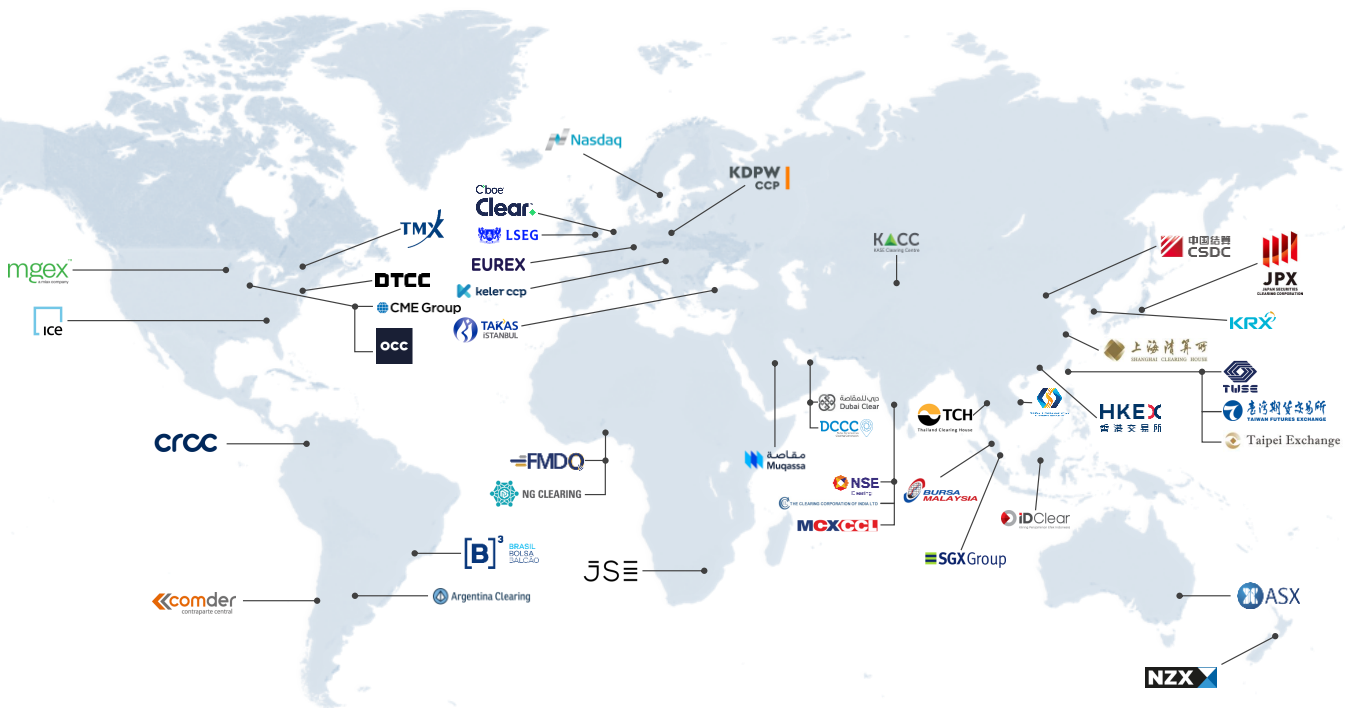
*CCP Global non-members included in the CCP Global PQD Quarterly Trends Report analysis are clearly indicated

About CCP Global

CCP Global is the global association for CCPs, representing 42 members who operate over 60 individual central counterparties (CCPs) globally across the Americas, EMEA, and the Asia-Pacific region. CCP Global promotes effective, practical, and appropriate risk management and operational standards for CCPs to ensure the safety and efficiency of the financial markets it represents.

CCP Global leads and assesses global regulatory and industry initiatives that concern CCPs to form consensus views, while also actively engaging with regulatory agencies and industry constituents through consultation responses, forum discussions, and position papers.

For more information, please contact the office by e-mail at office@ccp-global.org or through our website by visiting www.ccp-global.org.



Contacts



Rishi Nagar

Data Lead, PQD Transparency

Public Quantitative Disclosure Working Committee (PQDWC)

CCP Global | The Global Association of Central Counterparties

rishi.nagar@ccp-global.org



CCP Global Members



Copyright © 2024 CCP Global - The Global Association of Central Counterparties. All rights reserved.

The information and analysis detailed throughout this PQD QTR are for general information purposes only. While we attempt to keep the information up-to-date and accurate, there are no representations or warranties, expressed or implied, about the completeness, accuracy, reliability, suitability or availability with respect to the information, or related graphics contained in this report. This PQD QTR may not be reproduced or redistributed, in whole or in part, without the written permission of CCP Global. The information contained herein does not substitute as investment advice and should not be relied upon for such purposes. CCP Global accepts no liability for any loss arising from any action taken as a result of any information within this report.