

2023 ESG REPORT



WORKFORCE
EMPOWERMENT



SUSTAINABLE
SOLUTIONS



COMMUNITY
COMMITMENT



CORPORATE
STEWARDSHIP

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MESSAGE FROM OUR CHAIRMAN & CHIEF EXECUTIVE OFFICER

As the world’s leading derivatives marketplace, CME Group plays a significant role in the global economy. In fact, 2023 marked the strongest year in our history. Our high standing means we have an important responsibility to support our clients, employees and communities around the world.

It is through this lens that we approach our commitments to **developing sustainable solutions, empowering our workforce, making a philanthropic impact and governing our business**. In the pages of this report, you’ll find a snapshot of our efforts throughout 2023, with a particular focus on highlighting key metrics.

We are proud of our achievements to date and believe that advancing these initiatives will continue to make us a stronger company and help steer our organization for the future.

TERRENCE A. DUFFY

Chairman and Chief Executive Officer



2023 FACTS & FIGURES

3,565

EMPLOYEES

200

COUNTRIES & TERRITORIES

where CME Group futures and options contracts are traded

24.4M

CONTRACTS

in overall average daily volume reached – a company record¹

6.8M

CONTRACTS

in international average daily volume

\$5.6B

IN REVENUE

¹ Market statistics, including average daily volume by asset class and product are available in greater detail at <https://www.cmegroup.com/investor-relations/volume-reports.html>.

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CME Group enables clients to trade futures, options, cash and OTC products, optimize portfolios and analyze data – empowering market participants worldwide to efficiently manage risk and capture opportunities. CME Group exchanges offer the widest range of global benchmark products across all major asset classes based on interest rates, equity indexes, foreign exchange (FX), energy, agricultural products and metals.

CME Group provides primary price discovery and referential pricing information through its market data in a variety of formats, including real time, historical and derived data for customers in both listed and cash products. CME Group also offers industry-leading research and analytics tools to provide customers with market education resources. In addition, its clearing house operates one of the world's leading central counterparty clearing providers.

CME GROUP OFFICE LOCATIONS



NORTH & SOUTH AMERICA:

Chicago	Mexico City
Calgary	New York
Champaign	São Paulo
Houston	Washington, DC

EMEA:

London	Paris
Amsterdam	Zurich
Belfast	
Luxembourg	

APAC:

Singapore	Seoul
Bangalore	Sydney
Beijing	Tokyo
Hong Kong	

KEY 2023 ACCOLADES



**Exchange of
the Year**
Risk Magazine

**Global
Derivatives
Exchange
of the Year**
Global Capital

**World's Most
Valuable
Exchange Brand**
Brand Finance



OTHER COMPANY AWARDS

**Americas Derivatives Clearing House
of the Year**
Global Capital

Best Exchange Data Provider
Waters Technology

Best Exchange for FX
FX Markets

Best FX Trading Technology Provider
Euromoney

Blockchain 50
Forbes

Exchange of the Year
Asia Capital Markets

Top 500 Brands in the U.S.
Brand Finance

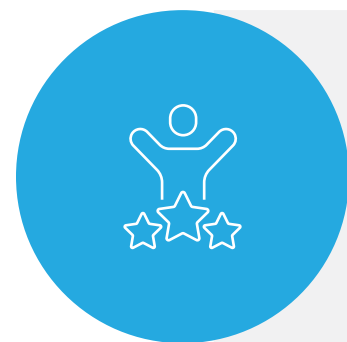
For a complete list of our company awards, see [here](#).



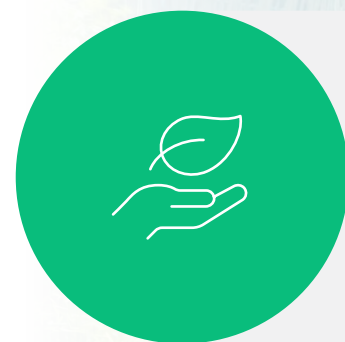
About this report

Our annual Environmental, Social and Governance (ESG) report details the oversight and execution of our strategic framework that guides and tracks how we empower our workforce, develop sustainable solutions, give back to our communities and govern our business. Importantly, this framework is designed to support our growth strategy by enabling us to be more adaptive to the ever-evolving business environment in which we operate. We are mindful of our stakeholders' priorities² and remain resolute in our commitment to engaging with them to better understand their diverse needs so that we may adapt our approach accordingly.

Our strategy is focused on four key pillars:



**Workforce
Empowerment**



**Sustainable
Solutions**



**Community
Commitment**



**Corporate
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² For our most recent materiality assessment, see our [2022 ESG Report](#).



ESG oversight & accountability

Our ESG Working Group comprises senior leaders representing key functions across our global organization and directs the design, development and execution of our ESG strategy and initiatives. Members of the Working Group meet regularly to evaluate the efficacy of our strategic framework, monitor how global developments might impact our approach and implement refinements.

The Working Group co-leads report to our Chairman & Chief Executive Officer and Board of Directors' Executive Committee to ensure alignment and support at the highest levels. The full Board maintains oversight of ESG-related risks within our Enterprise Risk Management (ERM) Program and other committees of our Board oversee specific elements of our ESG program.

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EXECUTIVE COMMITTEE | CME GROUP BOARD OF DIRECTORS

Chairman & Chief Executive Officer
TERRY DUFFY

Co-Leads
ANITA LISKEY, Senior Managing Director, Global Brand Marketing and Communications
JONATHAN MARCUS, Senior Managing Director, General Counsel

SUPPORT

Finance/Investor Relations
LYNNE FITZPATRICK
ADAM MINICK

Information Security
DAN MANLEY

Facilities
KEVIN LENNON

Client Development & Research
OWAIN JOHNSON
JULIE WINKLER

Human Resources
HILDA HARRIS PIELL
FRANCIE SISUL

Strategy
DAVID WONG

Government Relations
GAVIN PARKE
LINDA RICH

Products & Services
PETER KEAVEY
DEREK SAMMANN

Operational Resilience
BETHANY NETZEL

Communications/
Charitable Giving
KRISTIN WOOD

Compliance/Governance
CARRIE DI SANTO
MEG WRIGHT



WORKFORCE EMPOWERMENT

CME Group employees embody the essence of our company's commitment to excellence and innovation, and they are the driving force behind our success. We invest in our employees by fostering a workplace that not only nurtures their professional development, but also provides opportunities to advance within their roles and careers.

IN THIS SECTION

- › Employee Engagement and Development
- › Global Diversity and Inclusion

2023 Highlights



Launched an interactive Employee Orientation Program that helps new employees in all of our offices across the globe to onboard quickly and perform effectively in their first 90 days.



Announced a new, market-leading and inclusive family building benefit during 2023 U.S. Benefits Open Enrollment for the 2024 plan year.



Continued to invest in our 10-year partnership with Google Cloud to provide cloud technology training and certification programs for employees.

87%

OF EMPLOYEES

feel they have access to the resources needed to do their jobs effectively

5.6%

VOLUNTARY TURNOVER

down nearly 50% from 2022

38%

OF EMPLOYEES

belong to an Employee Resource Group (ERG)

\$1M

SPENT

on cloud technology training and certifications

WORKPLACE AWARDS

Computerworld's
**Best Places to
Work in IT**

CME Group earned a perfect score in **The Human Rights Campaign Foundation Corporate Equality Index (CEI)**, making us an Equality 100 winner

American Heart Association's
Workforce Well-Being Platinum Recognition

CME Group's India office was **Great Place to Work Certified™**

See more about our employee value proposition on our [Careers website](#).



WORKFORCE EMPOWERMENT

Employee Engagement and Development

Employee feedback is a critical input into the evolution of our employee development programs and resources. We regularly assess the employee experience through engagement surveys and onboarding and exit interviews to better understand employee perspectives and improve our processes and offerings. Tracking our performance metrics allows us to identify what we are doing well and where we need to focus our efforts on continuous improvement.

MEASURING KEY CORPORATE METRICS

5.6%

**VOLUNTARY
TURNOVER**
(10.2% in 2022)

30.4%

**OPEN ROLES FILLED
WITH INTERNAL
CANDIDATES**
(43.7% in 2022)

17.1%

**EMPLOYEES
PROMOTED**
(21.5% in 2022)

Listening to our employees

In 2023, we administered a pulse employee experience survey. This shortened survey was designed to check in on key engagement measures from the comprehensive survey conducted in 2022. With a 73% participation rate, our 2023 pulse engagement survey showed an overall engagement score of 70% and indicated employees feel positively about a number of factors – notably that 87% feel they have access to the resources needed to do their jobs effectively and 76% feel valued.

Detailed division and department breakdowns of the survey results are shared with the appropriate leaders to explore and identify key areas to address with assistance from Human Resources. We also share the findings with our workforce and proactively develop solutions for areas that received lower levels of engagement or satisfaction.

GAUGING THE EMPLOYEE EXPERIENCE:

87%

**FEEL THEY HAVE ACCESS TO
THE RESOURCES NEEDED TO
DO THEIR JOBS EFFECTIVELY**

76%

FEEL VALUED

76%

**CAN MAINTAIN A HEALTHY
BALANCE BETWEEN THEIR
WORK AND PERSONAL LIVES**

73%

**FEEL THEY ARE APPROPRIATELY
INVOLVED IN THE DECISIONS
THAT AFFECT THEIR WORK**



Developing our workforce

Creating an environment that supports our employees’ professional development is vital to our success. We encourage the pursuit of continued education, intentional goal-setting and constructive feedback, providing on-the-job training and resources to support these endeavors.

Examples of our professional and leadership development offerings include:



Enhanced Employee Orientation Program that is globally consistent and interactive to help new employees onboard quickly and perform effectively in their first 90 days.



Onsite and virtual-led professional development training courses and seminars.



More than 10,000 online educational courses focused on leadership and technical skills.



The Essentials for New People Managers Program—designed to help first-time managers at CME Group gain the confidence and skills necessary to succeed in their new roles.



Tuition assistance for continuing education.

“The Essentials for New People Managers Program was challenging, practical and hands-on. It was a real education for the job we do as people managers. I was encouraged to lean in and participate, which was refreshing!

JAN BODEY
Director, Software Engineering, London



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Unlocking opportunities with Google Cloud

In 2023, we continued to invest in our 10-year partnership with Google Cloud to transition our technology infrastructure and markets to the cloud.

To support an effective migration, we are focused on providing skills development training for our employees. CME Group invested approximately \$1 million in cloud technology training and certifications in 2023. Specific Google Cloud upskilling initiatives included:



Learning Tracks: Developed 15 different learning tracks for Google Cloud training.



Virtual Instructor-Led Workshops: Focused on building technical skills to support cloud transformation efforts.



Cloud Hero Challenges: Provided gamified learning experiences where employees practice their skills in a competitive environment.



Professional Certifications: Offered the educational opportunities to obtain Google Cloud professional certificates.

\$1M

SPENT

on cloud technology training and certifications

233

EMPLOYEES

across six Cloud Hero challenges

256

EMPLOYEES

completed a Google Cloud virtual, instructor-led workshop

“Cloud is a whole new world to many of us. As we migrate hundreds of applications and innovate with new technologies, the Cloud Digital Leader certification enables us to think about our business use cases and how cloud solutions support our enterprise.

KEVIN KRANZ

Director, FinOps, Chicago

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Global Diversity and Inclusion

We embrace the exchange of ideas driven by the rich diversity of our people, cultures and experiences. In doing so, we aim to drive innovation and foster an inclusive culture where everyone feels valued and respected. When our employees bring their authentic selves to work each day, it makes our business and our culture much stronger. Leveraging the collective mix of perspectives and insights that our individual backgrounds bring, we can continually provide our global clients with innovative products and solutions, advance our business and best serve the communities in which we live and work.

Our cross-functional Diversity and Inclusion (D&I) Council is responsible for driving our corporate D&I strategy and ensuring we have the right resources in place to support and grow our diverse employee population. The D&I Council comprises members of our Management Team in addition to employees from across the organization representing a wide variety of backgrounds and perspectives. Leading the D&I Council are our Chief Human Resources Officer (CHRO) and our Director of D&I, who oversee the Council's efforts. Our CHRO also provides senior management and the Board with regular updates on D&I progress.

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GLOBAL ERGS

38%

OF EMPLOYEES
belong to at least
one ERG

Building community through our Employee Resource Groups (ERGs)

Our ERGs play a crucial role in advancing a more diverse and inclusive culture. In addition to creating communities of colleagues with shared backgrounds and interests, our ERGs also lend their skills, insights and experiences to improve our hiring, retention and development efforts. Each of our 11 ERGs is focused on specific community associations or identifications and membership is open to all employees globally. In 2023, we implemented a standardized ERG board structure and provided training and resources for our ERG leaders to further support them in making a positive impact.

Our employees continued to engage with our ERGs in 2023, and we actively promoted social and networking ERG events on matters of importance throughout the year, including Black History Month, International Women's Day, Earth Day, Asian American and Pacific Island Heritage Month, Pride Month and more.

To learn more about our ERG communities, visit our [website](#).

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2023 D&I accomplishments

Recruiting talent:



Continued to broaden our candidate pool through outreach and other recruiting tools that enabled us to be more intentional about attracting all qualified applicants, including those from underrepresented groups. Launched a new interview scorecard to create consistent evaluation categories and reduce bias in the recruitment process.



Provided potential candidates visibility into our company culture by sharing employee testimonials, hosting ERG meet and greets and rolling out our [ERG landing page on our external careers site](#) that highlights how these groups advance a more diverse and inclusive workplace.

Mentoring and coaching:



Continued to support the development of our colleagues through our six-month D&I Mentoring Program that included thoughtful in-house matching support, mentee-mentor orientation sessions and curated resources and trainings.

Supporting diverse suppliers:



Increased diverse supplier participation in our request for proposal process.



Continued to raise awareness of our Supplier Diversity Program throughout the organization and with prospective supplier partners.



Worked to align our Supplier Diversity Program with our corporate D&I Council strategy.

\$16.2M

CME GROUP DIVERSE
SUPPLIER SPEND
(\$18.5M in 2022)

1.6%

OF TOTAL
CME GROUP
SUPPLIER SPEND
(2% in 2022)

64

NUMBER OF
CME GROUP
DIVERSE SUPPLIERS
(57 in 2022)



Benchmarking our global workforce

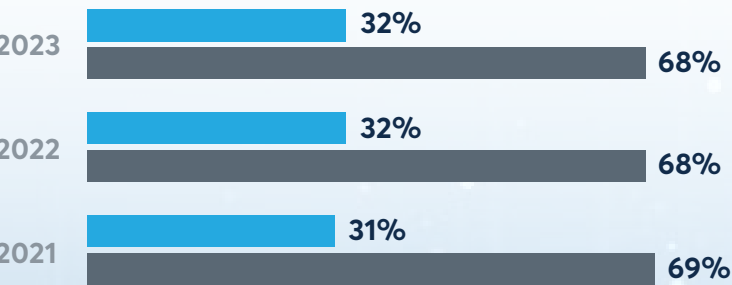
TOTAL EMPLOYEES



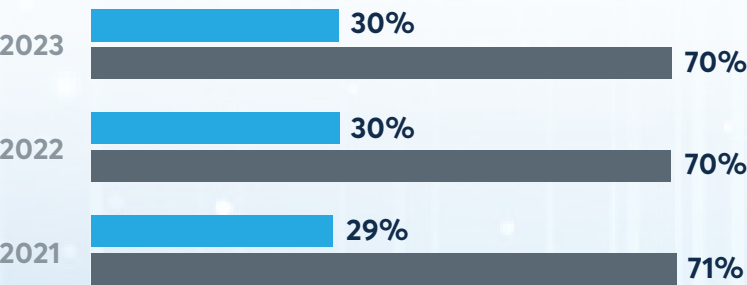
U.S. ETHNICITY

	2023	2022	2021
American Indian or Native Alaskan	0.1%	0.1%	0.1%
Asian	25.1%	23.7%	22.8%
Black or African American	5.5%	5.9%	6.4%
Hispanic or Latino	6.4%	6.3%	6.2%
Native Hawaiian or other Pacific Islander	0.1%	0.1%	0.1%
Two or More Races	1.7%	1.6%	1.5%
White	52.9%	54.7%	55.9%
Not Reported	8.0%	7.6%	7.0%

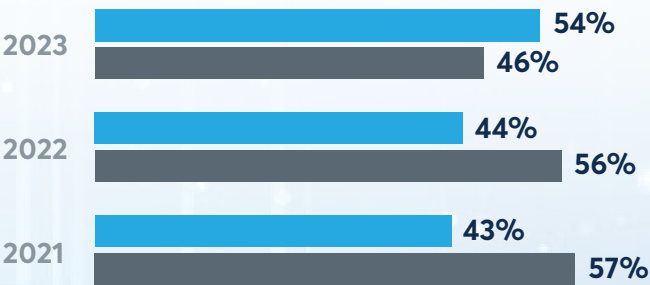
TOTAL WORKFORCE



PEOPLE MANAGERS



SENIOR MANAGING DIRECTORS AND ABOVE



Female Male

To further enhance our transparency, we have published our Equal Employment Opportunity (EEO-1) data for the U.S. [here](#).

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Employee health and well-being

We want to set our employees up for success both in and out of the workplace and in every stage of their lives and careers. To do so, we provide a total rewards program that is market competitive, emphasizes performance and helps us attract and retain the industry's highest achievers. Our programs and initiatives encourage a culture of care focused on mental, physical and financial well-being.

Examples of 2023 efforts include:



Supporting inclusive family building: During 2023 Benefits Open Enrollment, we announced a new inclusive family building benefit in the U.S. for the 2024 plan year. Through this unique program, employees can receive medical benefits related to infertility in a holistic manner with access to state-of-the-art medical testing and without annual limits on medications. Additionally, we added surrogacy coverage for the first time and enhanced our adoption and parental leave benefits.



Providing access to mental well-being benefits: We continued our partnership with a nationally recognized mental health provider, offering 12 free sessions per year for our employees worldwide and their dependents. Throughout the year, we also leveraged the partnership to conduct several educational sessions, such as a workshop for managers to help them recognize and respond to mental crises.



Championing young girls' mental health: As part of the programming for our fourth annual global Employee Well-being Week, we hosted a panel discussion between local experts on the mental health challenges young girls face, moderated by Eva Giglio, Executive Director, CME Group Foundation.

For more information on our efforts to support young girls' mental health, see [Community Commitment](#).



“Our ERGs are instrumental in helping us enhance the employee experience and improve our hiring, retention and workforce development. For example, after conversations with our Women's Initiative Network, Women in Technology and PRIDE ERGs, we extended our family building benefits, creating a more inclusive offering. Year after year, we remain committed to ensuring that our benefits offerings effectively cater to the diverse needs of our employees.



HILDA HARRIS PIELL

Chief Human Resources Officer, Chicago

For additional information on our benefits, see our [Careers website](#).

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SUSTAINABLE SOLUTIONS

At CME Group, we provide risk management tools in every investable asset class. That includes a suite of environmental products to help clients manage risk and capture opportunities to best meet their business and sustainability goals. As the global marketplace evolves, we are engaging with market participants to ensure we adapt our offerings to best meet their changing needs.

Beyond our products and services, we also support sustainability throughout our operations. We mitigate our environmental footprint and deploy sustainable practices throughout our owned and leased spaces.

IN THIS SECTION

- › Global Sustainable Products
- › Industry Partner Collaboration
- › CME Group Innovation Lab
- › Sustainable Operations

2023 Highlights

190%

GROWTH
in battery metals trading
volumes from 2022

18

NUMBER OF CITIES
covered by our weather
futures and options across
the U.S., Europe and Asia

79%

**OF OUR OCCUPIED
OFFICE SPACE**
in buildings with LEED,
BREEAM or other similar
green credentials

SUSTAINABLE PRODUCTS SUITE



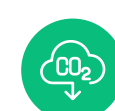
Bioenergy – biodiesel, ethanol, used cooking oil and used cooking oil methyl ester contracts



Renewable Feedstocks – corn, oilseeds and used cooking oil contracts



Battery and Recycled Metals – cobalt, lithium and scrap steel contracts



Voluntary Carbon and Emissions – nature-based and technology-based offset contracts



ESG Indices – S&P 500 ESG and S&P Europe 350 ESG³



Weather – temperature-based index futures and options

See more about our [sustainable products and solutions](#).

³ Formally E-Mini S&P 500 ESG Index and E-Mini S&P Europe 350 ESG Index respectively.



SUSTAINABLE SOLUTIONS

Global Sustainable Products

As more market participants consider sustainability factors in their trading strategies, we are developing tools to provide greater access, price discovery and risk management in this area.

In 2023, we continued to expand our sustainable products and provide new offerings:



Experienced strong growth across our battery metals suite. Open interest across our product complex grew 170% year-over-year. Trading volume also grew more than 190%, largely driven by the need to manage price risks associated with global demand for electric vehicles.



Expanded our battery metals and niche metals products by launching Cobalt Hydroxide futures, Lithium Carbonate futures, Cobalt Metal options, Lithium Hydroxide options and Molybdenum Oxide futures.



To enable businesses to hedge the risk they face from atypical weather conditions – particularly as the onset of climate change precipitates extreme weather events – CME Group offers weather futures and options geared to average seasonal and monthly weather in 18 cities around the world – 13 in the U.S., four in Europe and one in Asia.

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“Market participants continue to seek solutions that help better manage evolving risks that emerge as global businesses and economies transition toward new technologies and alternative sources of energy. CME Group is committed to helping them capture the opportunities this transition presents.



PETER KEAVEY
Managing Director,
Energy and
Environmental
Products, New York



Industry Partner Collaboration

CME Group participates in many global industry initiatives focused on developing market-based solutions that can collectively advance sustainable markets. Notably, we are a founding member of the derivatives network of the United Nations (UN) initiative Sustainable Stock Exchanges (SSE).

At the 2023 UN Climate Change Conference (COP28) in Dubai, our Managing Director of Research and Product Development, participated in an SSE panel discussion focused on the role of exchanges in climate innovation and the transition of markets toward net zero.

In addition to the SSE, our representatives actively participate in the following working groups, committees and taskforces:



The World Federation of Exchanges' Sustainability Working Group and its ESG Definitions Subgroup



The International Regulatory Strategy Group ESG Workstream



The Taskforce on Scaling Voluntary Carbon Markets



The International Organization of Securities Commissions (IOSCO) Affiliate Members Advisory Committee and its Sustainability Taskforce



Futures Industry Association U.S. Commodities Climate Risk Working Group

“Building more sustainable markets can’t be achieved by any one firm on their own. That’s why spaces where we can convene with and learn from other industry players are so crucial.

OWAIN JOHNSON

Managing Director, Research and Product Development, London



Owain Johnson participating in an SSE panel discussion at COP28.

For more information on our industry participation, see [Corporate Stewardship](#).

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Our Employee Innovation Program recognizes colleagues by providing cash incentives to those who apply for and are issued patents. In 2023, CME Group employees received a total of 84 new patents with awards totaling nearly \$200,000.

84

NEW PATENTS
in 2023 (75 in the U.S. and 9 internationally)

845

PATENTS
overall

\$4.1M

AWARDED
to employees overall

CME Group Innovation Lab

CME Group has long pioneered groundbreaking solutions for the derivatives marketplace. The CME Group Innovation Lab engages colleagues across all levels, departments and functions of our organization, and fosters collaborative and inventive thinking to create additional value for our clients and our business. Since 2014, the CME Group Innovation Lab has helped our company to keep a pulse on market needs and innovate new solutions to respond accordingly.

With our continued focus on innovation, we have made progress through our partnership with Google Cloud in leveraging cloud and cloud-based analytics in ways that benefit our clients.

Some examples of key activities in 2023 include:



Historical Market Data Access: We enabled clients to access our market data from 2014 to the present day via Google Analytics Hub. This allows them to efficiently query and share data between teams in a reliable and cost-efficient manner.



Referential Data Warehouse: We moved our referential data warehouse application to Google Cloud, which enables our clients to obtain historical product specification information through Google BigQuery. Clients can now run in-depth historical analyses without the cost and burden of storing historical reference data, freeing their resources to focus on growing their businesses.



Margin Services: On the clearing side, we deployed our Risk Calculator in Google Cloud. The Risk Calculator helps clients calculate and model margin requirements for their portfolios – and moving this to the cloud allows them to run several scenarios at the same time and with a faster output. The calculator was extended to allow historical and intraday risk runs by using the scale of the cloud.



GenAI: Our Google Cloud partnership also provides industry-leading insights on generative artificial intelligence (GenAI). Our key focus is on delivering actionable insights to clients faster and at scale. With dedicated resources in place, we continue to explore new possibilities and develop initial use cases.



Sustainable Operations

Across our operations, we promote environmentally sustainable practices, measure key environmental impacts in our owned and leased spaces and implement systems and solutions, where feasible, to help mitigate our carbon footprint.

Even though CME Group has relatively small greenhouse gas (GHG) emissions compared with other companies, we analyze climate risk exposure and assess our business resilience to anticipate, prepare for and respond to climate events that could impact our markets or our company.

We continue to track and manage our energy usage, implementing a software tool to more efficiently track our emissions data and other key metrics, while also better identifying opportunities for future emissions reduction efforts.

Our year-over-year inventories inform our emissions reduction strategy and are conducted in accordance with the GHG Protocol and U.K. SECR mandated reporting. We measured all relevant Scope 1, 2 and 3 categories and, consistent with best practice, we reported both location-based and market-based methods.

For our full year-over-year GHG Emissions Inventory, see the performance data table [here](#).

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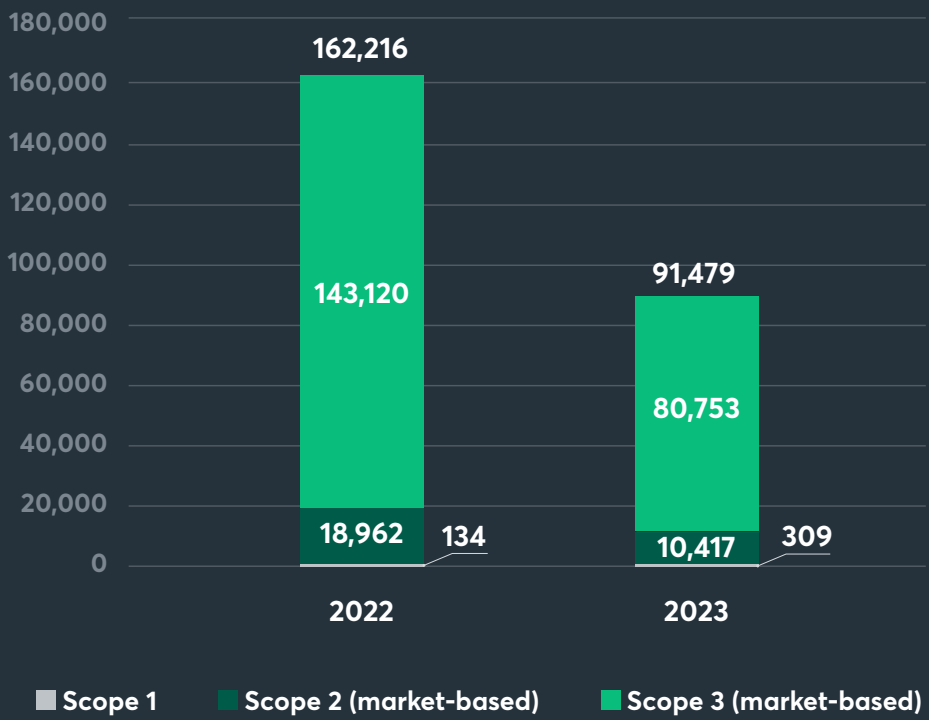
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GLOBAL GHG EMISSIONS⁴ (MT CO₂e)



⁴ As a result of exiting from certain premises in 2023 and changes to the way some landlords report data, we have updated our emissions methodology for 2023. Consequently, CME Group's Scope 2 and 3 market-based emissions have reduced by some margin.



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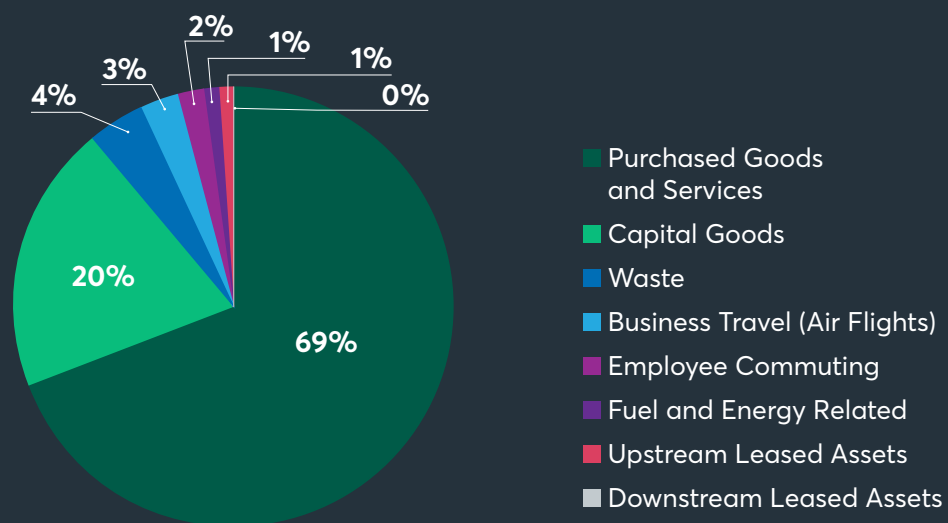
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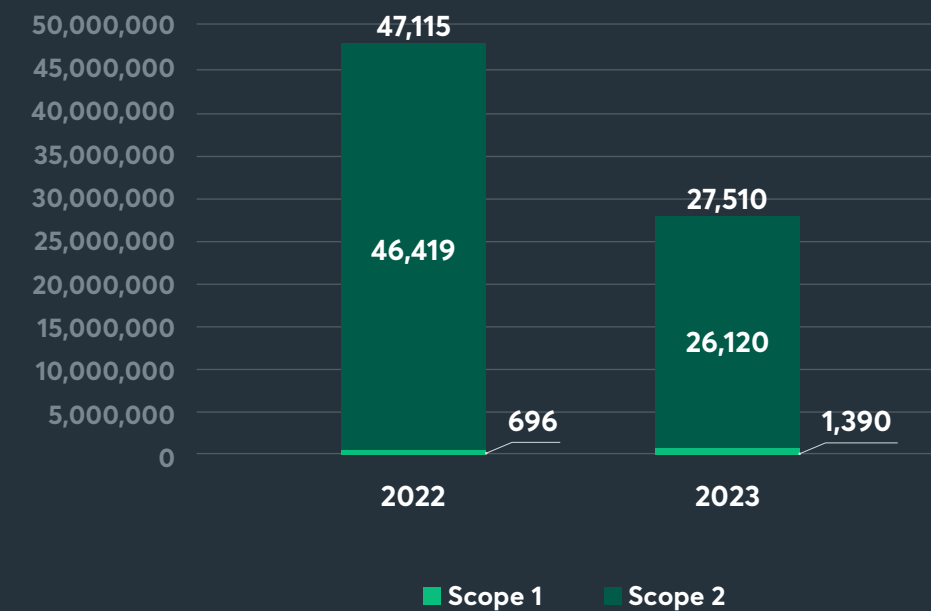
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2023 SCOPE 3 EMISSIONS (MARKET-BASED)

Scope 3 emissions are the result of activities from assets CME Group does not own or control, but indirectly impact our value chain.



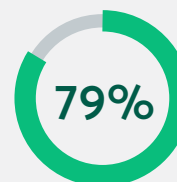
ELECTRICITY CONSUMPTION BY SCOPE⁵ (MWh)



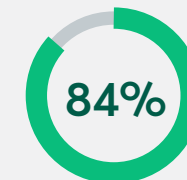
⁵ Scope 1 includes natural gas and diesel; Scope 2 includes purchased electricity.

FACILITIES

We carefully manage our environmental impact in owned spaces and work with site owners to manage and reduce our environmental impact in leased locations.



79% OF OUR OCCUPIED OFFICE SPACE IN BUILDINGS HAS LEED, BREEAM OR OTHER SIMILAR GREEN CREDENTIALS



84% OF OUR OCCUPIED OFFICE SPACE HAS COMPOSTING PROGRAMS, IN ADDITION TO OUR ONGOING RECYCLING EFFORTS ACROSS OUR LOCATIONS

COMMUNITY COMMITMENT

Engaging with and investing in the communities where CME Group operates and where our team members live is one way we aim to positively impact society. We have a two-pronged approach to community engagement:

- **The CME Group Foundation** is a 501(c)(3) organization that provides funding and resources to empower future generations through education, equipping today's students for tomorrow's challenges.
- **Our Corporate Giving Program** provides employees with an opportunity to support causes they value through matching gifts. Notably, it includes our annual charitable support of St. Jude Children's Research Hospital through the CME Group Tour Championship.

IN THIS SECTION

- › CME Group Foundation
- › Corporate Giving
- › Markets Education

2023 Highlights



Invested \$6.2 million in 135 CME Group Foundation grantee partners



Awarded \$625,000 in scholarships through the CME Group Foundation Scholars Program



Contributed nearly \$240,000 in matching gifts to charities around the world



Extended the CME Group Tour Championship with the Ladies Professional Golf Association (LPGA) through 2025, increasing the purse to \$11 million and continuing to celebrate women's sports and women in business



Expanded the Futures Fundamentals learning initiative with new digital lessons and the launch of a trading simulator platform

\$8M

IN TOTAL GIVING

\$745K

IN TOTAL SCHOLARSHIPS

\$240K

IN MATCHING GIFTS

428

PAID DAYS OFF
utilized by employees for
volunteering



COMMUNITY COMMITMENT

CME Group Foundation

The CME Group Foundation aims to contribute to the workforce of the future by equipping students with the skills and support needed to meet tomorrow’s global challenges.

Specifically, the CME Group Foundation is focused on the following priorities:

- 

Helping students from low-income backgrounds succeed in college and their careers.
- 

Providing equity of access to programs and resources for K-12 students who are typically underrepresented in computer science and financial education.
- 

Supporting families and early learners who are preparing for kindergarten.
- 

Supporting the mental health needs of girls and young women in middle and high school.

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Since 2008, the CME Group Foundation has contributed to local nonprofits that support students of all ages. The following is a snapshot of one-time and multi-year grants made by the Foundation in 2023.

Program	Grant amount	Grant Impact
 Early Childhood Education		
Multi-year Grant		
Carole Robertson Center for Learning	\$200,000	Bridging Academic and Social Emotional Supports in Kindergarten initiative and the development of innovative program models
Chicago Public Library Foundation	\$200,000	The Early Learning & School Readiness Initiative, which delivers early learning programming and supports families through the library
Latino Policy Forum	\$200,000	Promoting equity in early education for English learners
Something Good in Englewood	\$150,000	Mental health clinician and family support specialist roles for the Little Angels Learning Center
Council for a Strong America: Ready Nation	\$50,000	Raising the voices of civic leaders for kindergarten readiness

Program	Grant amount	Grant Impact
 K-12 Education		
Multi-year Grant		
Youth Guidance	\$500,000	Working on Womanhood, a culturally responsive, trauma-informed counseling and clinical mentoring program for girls and young women
Computer Science Teachers Association	\$100,000	Empowering Illinois and Chicago computer science teachers
Girls Inc. of Chicago	\$100,000	Mind + Body Health initiative, which provides culturally appropriate, trauma-informed prevention and positive youth development interventions to address girls' mental health
Illinois Science and Technology Institute	\$100,000	Partnerships with high school and middle school students with companies to solve industry issues related to STEM through The STEM Challenge and the 6x3 Project Series
One Year Grant		
Sinai Urban Health Institute	\$200,000	Study examining the mental health and well-being of middle- and high school-aged girls in Chicago

Program	Grant amount	Grant Impact
 College and Career Success		
Multi-year Grant		
Hope Chicago	\$150,000	Supporting student success coaches in high schools with the process of preparing for postsecondary success
Bottom Line	\$100,000	Providing individualized academic, personal, financial and career counseling to empower first-generation students from low-income backgrounds to enroll in and succeed through college.
One Goal	\$100,000	Supporting students from 11th and 12th grades through their first year of a postsecondary program to close the degree divide
One Million Degrees	\$100,000	Services for community college students to launch economically mobile careers
One Year Grant		
Scholarship America	\$625,000	Annual funding of the CME Group Foundation Scholars Program

The complete list can be found at cmegroupfoundation.org.

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Investing in mental health initiatives

As an extension of our violence reduction and intervention strategy introduced in 2022, the CME Group Foundation launched an initial two-year \$2 million grantmaking initiative in 2023 to support the mental health of girls and young women impacted by trauma and violence in Chicago. This new initiative aims to reduce the impact of adverse childhood experiences by expanding the reach of mentors and mental health service providers to young women and girls, promoting innovation in trauma responsiveness and social-emotional learning and driving awareness and collaboration across Chicago’s public and private sectors.

The CME Group Foundation deployed the first \$1 million in 2023 to support various Chicago-based organizations focused on direct and systems-level support for girls and young women. Grantees in this new portfolio include:

Children’s Research Triangle

Focus Fairies

Girls Inc. of Chicago

Juvenile Protective Association

Ladies of Virtue

Polished Pebbles

Union League Boys and Girls Club

Youth Guidance

“The [Foundation] scholarship means more than just a financial award...it not only feels like a special reward for my hard work and efforts, but it also feels like a reminder...that even though women like me are still highly underrepresented in the finance industry, there are still vast opportunities.

AZIZAT BALOGYN

CME Group Foundation Scholar, University of Illinois-Chicago, Class of '23



Since 2019, the CME Group Foundation Scholars Program has awarded:

\$3.1M

IN SCHOLARSHIPS
to 87 students

Enhancing representation through the CME Group Foundation Scholars Program

The CME Group Foundation Scholars Program works to financially support students from low-income and historically underrepresented communities who are pursuing four-year degrees in finance, information technology, computer science or applied mathematics. Students in grades 10-12 at eligible partner schools, as well as master’s in finance candidates, can be awarded \$20,000 in scholarships per year. In 2023, the program awarded scholarships to 18 students, resulting in the total number of students empowered by the Scholars Program expanding to 33 for the 2023-24 academic year.

Participating scholars also receive access to fellowship and internship opportunities and are encouraged to apply for full-time jobs at CME Group upon graduation. We are pleased to count several Foundation Scholar alumni among our colleagues.



Corporate Giving

Our Corporate Giving Program is multifaceted and expands the reach of our community efforts by empowering our workforce to contribute to programs and causes that are meaningful to them. It also encompasses our longstanding relationship with the LPGA and St. Jude Children’s Research Hospital, as well as the Chicago Star Scholars Program.

Engaging employees through impact

Part of what it means to offer a rich employee experience includes providing our people with opportunities to give back to their communities – both monetarily and through volunteering. Our Matching Gift Program matches employee donations to eligible charitable organizations of \$25 or more, up to \$1,500 per calendar year per employee. In 2023, we contributed nearly \$240,000 in matching gifts across the global communities where we live and work.

In addition to our Matching Gift Program, each of our 11 ERGs is allocated \$5,000 annually to donate to eligible nonprofit organizations that align with their interests. Select recipient organizations from 2023 included:

- Attention Deficit Disorder Association
- Beyond the Battlefield
- Code Your Dreams
- Muscle Help Foundation
- Openlands
- Trevor Project
- UNICEF



“I really appreciate the Matching Gift Program, as it demonstrates tangible and direct support of CME Group employees and the causes that are important to them. The program is very easy to use and only takes a few minutes to double your impact.

DAN ROEMER
Director, Global Assurance, Chicago

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Our colleagues also come together to support diverse community endeavors that benefit those in need worldwide. Below are some examples of how our global colleagues supported their local communities throughout 2023:



Bangalore: Continued advancing our relationship with [Akshaya Patra Foundation](#), a group that strives to eliminate classroom hunger by providing fresh and nutritious lunches.



Belfast: Partnered with [Simon Community](#) to support people experiencing or at risk of homelessness in Northern Ireland.



Chicago: Hosted a holiday party and gift drive for the Pre-K and kindergarten classes from Washington Irving Elementary.



London: Organized a canal clean-up event through our SEED ERG and London Community Relations Committee in partnership with [Lower Regents Coalition](#), an organization that aims to preserve London’s waterways.



Singapore: Volunteered with [Walk for our Children](#), a 2km walk event to raise funds for [Children’s Society](#), an organization focused on protecting and nurturing children and youth in need, providing a wide spectrum of offerings from family services to research and advocacy.



London employees volunteering with the Lower Regents Coalition.

“Arriving at the canal with litter surrounding you and leaving it spotless was a great feeling. The event was a great way to meet new colleagues and get involved in supporting the CME Group culture and our local community!

CHARLIE SALISBURY

Charlie Salisbury, Senior Sales Associate, Client Development and Sales-EMEA, London



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Empowering the next generation of talent

In addition to the work the CME Group Foundation leads to invest in educational opportunities for the next generation of talent, we partner with a number of organizations to offer scholarship, fellowship and internship opportunities to high-achieving students. Examples of these company-sponsored initiatives include:



The Chicago Star Scholars Program, which helps make attaining a bachelor's degree more affordable by awarding high-achieving students from Chicago City Colleges with scholarships to help them continue their education at a four-year college or university. In 2023, 32 Star Scholars received the CME Group Star Partnership Mayoral Award, which provides \$5,000 over two years to each recipient.



The CME Group Technology Fellowship Program, which serves as a strong pipeline for identifying and developing young talent for internships and full-time opportunities. The Fellowship offers a hands-on approach to developing technical skills and focuses on promoting learning and career development. Throughout 2023, we partnered with organizations like the Posse Foundation and Genesys Works to continue building an inclusive talent pipeline.



Hosted a Tech Talk series at schools throughout Illinois to provide students visibility into CME Group internship opportunities. In 2023, attendees included the Latinx Organization for Growth in Computing and Academics, Women in Computer Science and Girls Who Code.



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Spotlight: Contributing to St. Jude Children's Research Hospital

Since 2011, we have hosted the annual CME Group Tour Championship to celebrate the culmination of the LPGA season. As in years past, the 2023 event supported St. Jude Children's Research Hospital – advancing its mission to ensure no family ever receives a bill for treatment, housing or travel when caring for a sick child. From the season-long Score 1 for St. Jude program – where CME Group contributed \$20,000 for each hole-in-one scored – to our annual benefit concert, we donated a total of \$1.3 million to St. Jude in 2023.

The 2023 event marked a historic milestone as CME Group extended its sponsorship agreement with the LPGA through 2025. Beginning in 2024, the Tour Championship will offer an enhanced total purse of \$11 million. In addition, the winner will take home a record \$4 million first-place prize – the largest single prize in women's sports. Moreover, every competitor who qualifies will be awarded at least \$55,000, which is a first for a women's tournament.

We are proud to continue our steadfast support for women in business and sports, at the same time we honor St. Jude for their invaluable contributions to saving lives and ensuring brighter futures.



CME Group Chairman and Chief Executive Officer, Terry Duffy, attending our annual CME Group Tour Championship event for St. Jude.

“CME Group has been pushing the LPGA forward at every step of our evolution since 2011, and with this extension, they are once again helping take the LPGA and women's sports to unprecedented heights. We are also inspired and proud of the company's support of St. Jude Children's Research Hospital throughout the season and at the CME Group Tour Championship.

MOLLIE MARCOUX SAMAN
LPGA Commissioner



Markets Education

Being a leader in our industry and a fierce advocate of education, we understand the importance of providing our stakeholders with resources to improve collective understanding of our industry and offerings. Through the CME Institute and our industry-wide initiative Futures Fundamentals, we are providing valuable educational opportunities to individuals at all stages of learning – from experienced traders to those building their foundation of markets knowledge.

Exploring the futures market with CME Institute

The CME Institute is a comprehensive education platform designed for traders at every level of expertise. By offering a range of courses, trading simulations, webinars and insights on market trends, we are empowering traders and others interested in learning about the futures and options markets to better navigate and excel in the dynamic trading landscape.

Elevating derivatives education with Futures Fundamentals

Future Fundamentals is a 501(c)(3) organization that was launched by CME Group alongside industry partners to provide web-based interactive tools and content for derivatives education. Designed to simplify and explain complex market topics, Futures Fundamentals aims to make financial education an engaging experience for anyone, regardless of how well versed they are in finance.

Highlights from 2023 include:



Launched two new **mini-digital lessons focusing on futures education** through the [Econ Essentials Program](#), a collaboration between Futures Fundamentals and Discovery Education that provides teachers with resources to explain basic economic principles through real-world applications. The two lessons, titled “Futures and Risk Management” and “Trading Futures,” were promoted in connection with back-to-school programs throughout August and September.



Finalized the development of an updated **trading simulator platform** that enables private trading challenges for up to 500 participants. Participants are now able to trade on real-time data as well as access products beyond the existing CME Group suite. In September 2023, we supported a four-day pilot trading challenge with Future Fundamentals, which included participants across CME Group, the Futures Industry Association, the Institute of Financial Markets and National Futures Association.

FUTURES FUNDAMENTALS ENGAGEMENT THROUGH THE ECON ESSENTIALS PROGRAM:

2.3M

STUDENTS
reached to date

212K

STUDENTS
reached in 2023

2.3K

**ACTIVITIES
DOWNLOADED**
by educators

Learn more at
futuresfundamentals.org.

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CORPORATE STEWARDSHIP

Our strong governance practices and culture of compliance, ethics and accountability drive how we conduct business and serve our clients every day. Guided by five key values and aligned with industry best practices, we have established deep-rooted trust with our clients, employees and shareholders over the years.

IN THIS SECTION

- › Corporate Governance
- › Risk Management
- › Business Ethics and Integrity
- › Data Privacy and Security
- › Public Policy and Partnership

2023 Highlights

100%

OF OUR BOARD MEMBERS

have experience in ethics and integrity

87%

OF OUR BOARD MEMBERS

are independent

67

EMPLOYEES

recognized as Compliance Champions

OUR VALUES



Lead with conviction and integrity



Advance the global economy



Embrace the exchange of ideas



Build lasting relationships



Act with ingenuity every day



CORPORATE STEWARDSHIP

Corporate Governance

Our Board of Directors is tasked with establishing and implementing [Corporate Governance Principles](#) that provide a framework for our effective governance. We prioritize matters that are top of mind for our company, clients, employees and investors to develop new policies and programs, and evolve existing ones, to make CME Group a better company. By aligning our governance approach with best practices, our company strengthens board and management accountability, promotes long-term shareholder value and sustains continued success.



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In 2023, our Board was specifically focused on:



Continuing to oversee the company's risk and compliance functions, including the Global Information Security Program.



Positioning CME Group to deliver long-term revenue growth by strengthening client engagement and delivering effective risk management solutions and innovative products and services.



Proactively engaging with policymaking bodies and expressing our views on issues important to our company, market participants and the industry.



Overseeing the completion of the key technical design and security elements of our instance of the Google Cloud Platform and migrating more than 150 applications to a production-ready state.



Innovating and offering market participants meaningful capital and operational efficiencies across a diverse and globally relevant product set.



Fostering a culture rooted in diversity, inclusion, well-being and ongoing development for all employees across the globe.



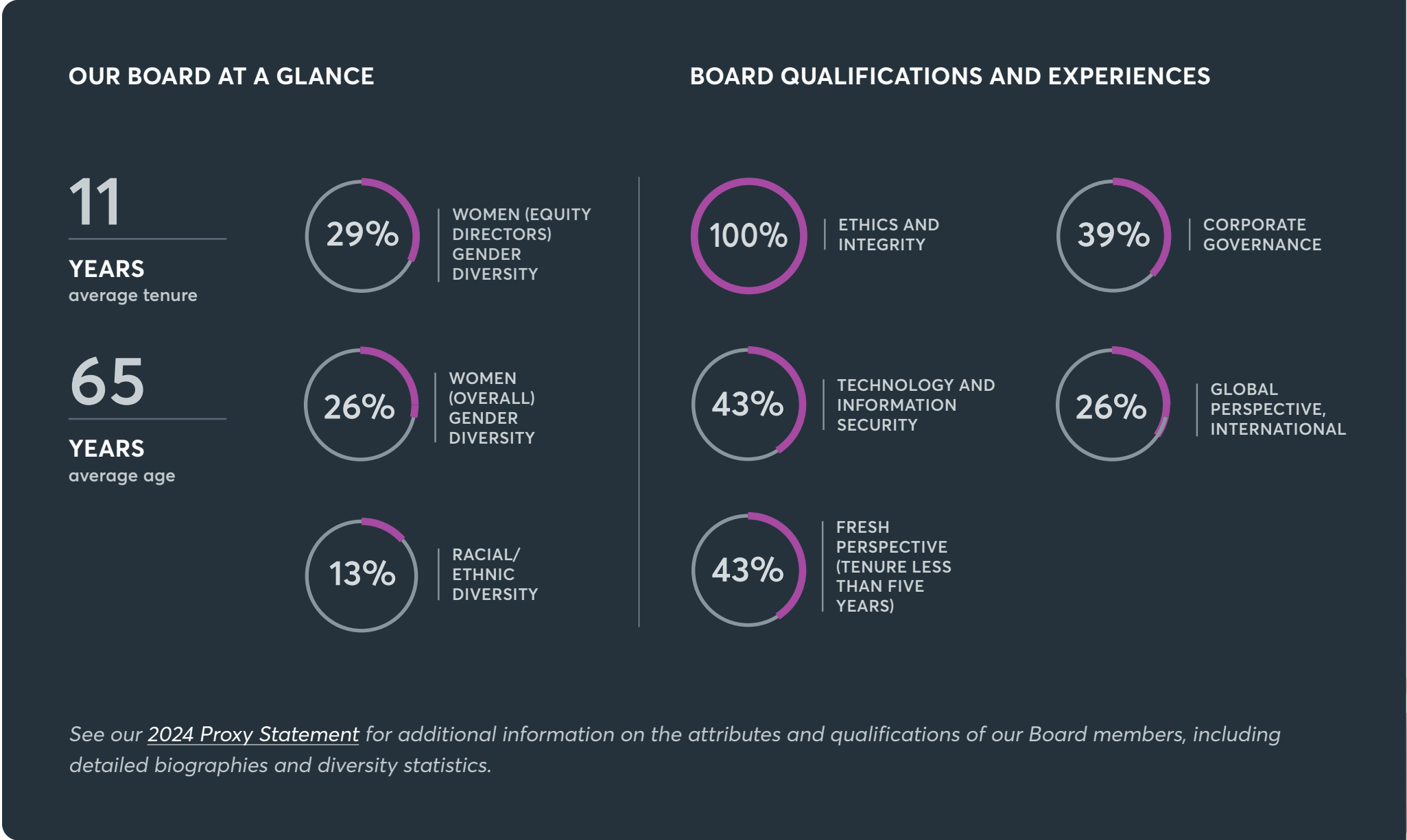
Continuing to deliver value to our shareholders.



Welcoming diverse perspectives on our Board

We believe diversity on our Board is critical to the success of CME Group and our ability to create long-term value for our shareholders. In 2023, we continued our multi-year approach to board refreshment and succession planning. This process aims to optimize the Board's ability to effectively oversee and govern the company based on all business needs.

In 2023, we welcomed Kathryn Benesh and Harold Ford Jr. to our Board, bringing gender and racial diversity, as well as relevant and extensive experience across industries.



“I was thrilled to join the CME Group Board and collaborate with such esteemed individuals, prioritizing diverse voices and positioning CME Group for long-term growth and success.



KAY BENESH
CME Group Director and Member of the Audit and Market Regulation Oversight Committees

For information on our governance policies, see the following resources:

[Board of Directors Code of Ethics](#) | [Board of Directors Committee Charters](#) | [Board of Directors Conflict of Interest](#) | [Corporate Governance Principles](#)

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Risk Management

As a company that provides risk management tools and services to our global clients, we approach our own risk management practices, protocols and programs with the same level of rigor. Our approach to managing risks focuses on preserving and protecting our enterprise value and maintaining and enhancing our reputation. Our Board has ultimate oversight responsibility for the company's risk management activities, including our ERM, Operational Resilience and Global Information Security (GIS) programs. Senior management is responsible for managing day-to-day risk and regularly engaging with our Board. The Board holds management accountable for maintaining an effective risk management program and operating it within the acceptable risk appetites that have been recommended by the Risk Committee and approved by the Board.

Each of the Board's eight committees has dedicated risk-related responsibilities,⁶ with the Risk Committee tasked with reviewing, assessing and providing oversight of our risk management practices, including approving the ERM framework and risk universe. Board committees meet with leaders of key control functions, providing direct access to Board members and ensuring the independent operations of such functions. Committee chairs then provide regular reports to the full Board regarding matters reviewed by their respective committees at the Board's regular business meetings.

Furthermore, our ERM Program is designed to ensure appropriate visibility and reporting of the full range of our key enterprise risks aggregated on a quarterly basis. Our Managing Director, Chief Enterprise Risk Management and Compliance Officer is responsible for our ERM and Compliance programs and reports internally to our General Counsel and externally to the Risk Committee. We organize our enterprise risks into six categories: clearing house, compliance, financial, operational, reputational and strategic and commercial. The profile of this risk universe and our associated responses are reported to the Board and senior management quarterly.

⁶ See our [2024 Proxy Statement](#) for a summary of risk-related responsibilities by Board committee.

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2023 RISK UNIVERSE

CLEARING HOUSE

- Clearing House Financial Resources
- Clearing House Operations

COMPLIANCE

- Corporate Compliance
- Regulatory
- Government Relations: Political, Legislative and Regulatory
- Legal

FINANCIAL

- Accounting and Financial Information
- Credit, Market and Industry

OPERATIONAL

- Sourcing and Third Party
- Information Security
- Physical Security
- Human Resources
- Operational Resilience
- Information Technology
- Planning and Execution
- Trading Operations

REPUTATIONAL

- Brand

STRATEGIC & COMMERCIAL

- Growth
- Commercial Offerings

CME Group tracks impacts from climate and sustainability risk within the foregoing risk universe categories as applicable, based on the potential impact to its operations, strategy and reputation.

Managing risks related to third parties

Our Third-Party Risk Management (TPRM) Program is designed to identify, assess and manage potential risks relating to the engagement of certain third parties. TPRM establishes due diligence standards and procedures to help ensure that the purchase of goods, services and the engagement of certain third parties (e.g., agents, affiliates, vendors/suppliers, consultants, etc.) are appropriately reviewed, negotiated, risk-assessed, authorized and documented. Effective TPRM allows CME Group to manage potential exposures to risks within acceptable levels – especially those that relate to critical processes and activities – and to optimize for maximum achievable benefits from that relationship or engagement.

Managing succession planning

Providing effective continuity of leadership is vital to the success of our company and central to our long-term strategy. The entire Board is responsible for succession planning for the Chairman and Chief Executive Officer, as well as other critical senior leadership roles, with the Nominating and Governance Committee overseeing the process. The Compensation Committee is responsible for ensuring we have appropriate compensation strategies and programs in support of retention and recruitment. To provide the Board with opportunities to familiarize themselves with our executive talent, all members of our Management Team attend regular board and committee meetings based on their roles and responsibilities. We also prepare senior leaders who are potential successors to the role of Chief Executive Officer by providing development opportunities, including engagement with and exposure to key stakeholders, regulators, investors and clients.



Business Ethics and Integrity

At CME Group, we are committed to operating honestly, fairly, transparently and in accordance with applicable regulations. We strive to cultivate an ethical business culture through our Compliance and Ethics Program, which underpins our success and mitigates the risk of misconduct and illegal activity. Our Managing Director, Chief Enterprise Risk Management and Compliance Officer leads this program, which is overseen by the Risk Committee and supported by a cross-functional team of senior leaders. External compliance and legal experts are also regularly consulted.

In 2023, we surveyed employees to better understand how they view our Compliance and Ethics Program. The results indicated that the program is operating effectively, and employees understand the behaviors expected of them to uphold the integrity of our operations. Following the survey, we took the opportunity to communicate the results to our employees and to provide them with enhanced transparency with respect to the program’s allegation intake and investigation and disciplinary processes in support of our speak up culture.

Upholding a culture of integrity

Integral to our Compliance and Ethics Program is our global [Code of Conduct](#), which outlines our expectations for our employees, internal consultants and temporary personnel resources to act with honesty, thoughtfulness and integrity to protect CME Group’s reputation. These CME Group colleagues must certify the Code of Conduct and its related policies annually. We also developed a guide to [Conducting Business for Third Parties of CME Group](#) to help our third parties understand our standards for business conduct. The guide covers compliance topics similar to those covered in our Code of Conduct.

Additionally, providing resources and the ability to raise any instances of misconduct or violation of law is another key element of our Compliance and Ethics Program. Our Speak Up and Escalation Policy details the responsibilities of all CME Group colleagues to report and escalate issues of concerning behavior or misconduct. There are multiple channels through which to raise concerns, including the CME Group Helpline, where anonymous reports may be made where locally permitted.

Regardless of whether the report is raised anonymously or not, we make every effort to protect the confidentiality of anyone who raises a concern in good faith. All reported matters are taken seriously and investigated as necessary. To demonstrate appropriate oversight and accountability, aggregated information regarding allegations received and the nature of any remedial action taken by the company are reported to senior management and at the Board level. Substantiated violations result in corrective action or discipline, as appropriate, up to and including termination.

We marked the 10th year of our Compliance Champions initiative in 2023, recognizing 67 employees who best demonstrate CME Group’s business principle of leading with conviction and integrity and embodying the philosophy of our Speak Up and Escalation Policy.

“Despite a lot of change this year, this group continued to go above and beyond their regular duties and stay focused on leading with conviction and integrity and have earned their recognition as Compliance Champions.



SUNIL CUTINHO
Chief Information Officer, Chicago

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Reinforcing compliance education

In addition to our Code of Conduct, CME Group expects our employees and third parties to act ethically and in line with our core values, as well as to uphold the other policies that are part of our Compliance and Ethics Program. Throughout 2023, we sought to provide effective communications and risk-based training on various aspects of our Compliance and Ethics Program related to:



Awareness of our Information Security Program, including how to identify phishing attempts



How to protect our confidential and proprietary information



The importance of participating fairly in the marketplace and complying with our policies to prevent insider trading



How to comply with our global anti-money laundering and economic sanction policies and our anti-corruption and anti-bribery policies



How to use GenAI responsibly and in accordance with CME Group policies

See our [2022 ESG Report](#) for highlights on our various compliance policies that support our Code of Conduct.



Data Privacy and Security

The secure storage and transmission of our employees' and clients' data and the ability to continuously transact on our electronic trading platform are critical elements of our business and operational resiliency. Led by our Chief Information Security Officer (CISO), our GIS Program is dedicated to mitigating risks to our information systems. We employ a range of safeguards to ensure our data's confidentiality, integrity and availability – including technical, physical and administrative measures.



Our Board and Risk Committee are regularly briefed on the activities and effectiveness of our GIS Program, including reports on incident response plan testing exercises and results of compliance and third-party evaluations. The CISO reports to the Chief Information Officer, a member of the CME Group Management Team, and provides quarterly reports to and meets annually in a private session with the the Risk Committee. The GIS Program is overseen by the Risk Committee, with additional insights provided by a cybersecurity consulting firm to ensure robust governance and oversight.

As part of our GIS Program, CME Group operates a cutting-edge Cyber Defense Center. The center is connected virtually 24/7 to our international operational cybersecurity teams and serves as a global hub for various activities such as log collection, event monitoring, threat detection and incident response, vulnerability management, resiliency, operations and the proactive collection and processing of both open source and proprietary threat and intelligence feeds. This enables us to efficiently manage, investigate and respond to cybersecurity events. The GIS team works collaboratively to prevent, detect and respond to systemic events that may pose a threat to our industry or the economy.

In addition to our cybersecurity efforts, the [CME Group Privacy Center](#) enhances transparency and accessibility regarding our data privacy practices. Moreover, our Data Privacy team plays a vital role in advising on the responsible collection and use of personal data. Our Privacy Program undergoes periodic internal audits and external assessments to ensure its effectiveness and compliance. It is also designed to ensure adherence to relevant regulations, such as the European General Data Protection Regulation (GDPR), and we are transparent about our policies regarding personal data rights. Our Privacy Center also provides information on our cookies policy and subscription management.

For further details on our cybersecurity and data privacy initiatives, please refer to our [Proxy Statement](#) and [Confidentiality and Data Protection Policy](#).

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Public Policy and Partnership

Advocating for smart public policy

Active engagement in shaping public policy is integral to our operations and serves the best interests of our shareholders, employees and clients. It is also a tenet of good corporate citizenship. At CME Group, we advocate for policy objectives with transparency, integrity and adherence to legal frameworks. Our involvement encompasses financial regulations globally, economic growth and stability and is in support of robust capital markets. For detailed insights into our policy engagement stance, refer to our [Policy Engagement Statement](#).

Our Government Relations team operates on multiple fronts, engaging policymakers at federal, state, city, regulatory and international levels, including Congress, the Commodity Futures Trading Commission (CFTC), the Securities and Exchange Commission (SEC), Treasury, the Federal Reserve, the Illinois General Assembly and multiple international regulatory bodies and standard setters.

The Government Relations team also plays a critical role in engaging with and keeping industry stakeholders and our colleagues across business lines and operations informed of critical policy developments that affect our industry so that we may continue to act in our clients’ best interests.



Joining industry organizations

We extend stewardship principles beyond our internal operations through our participation in industry associations. These engagements help propel the global economy forward and foster the exchange of knowledge in support of collective efforts that advance our industry. These industry-based organizations include:

Analysis and Resilience Center	International Swaps and Derivatives Association (ISDA)
Clearing House and Exchange Forum	Managed Funds Association (MFA)
Commodity Markets Council (CMC)	Overseas Security Advisory Council
Electronic Debt Markets Association Europe	Securities Industry Financial Markets Association (SIFMA)
Financial Services Sector Coordinating Council	Sustainable Stock Exchanges (SSE) Initiative
Futures Commission Merchant Council	SWIFT Information Sharing and Analysis Centre
Futures Industry Association (FIA)	Trisector Coordination (Electrical, Communication and Financial Sector)
Global Association of Central Counterparties	World Federation of Exchanges (WFE)
Global Financial Markets Institute	
International Organization of Securities Commission’s Affiliate Members Consultative Committee (IOSCO)	

For additional information on our industry participation related to our products and solutions, see [Sustainable Solutions](#).

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APPENDIX

CME GROUP SASB INDEX

Security & Commodity Exchanges

SASB broadly defines “sustainability” as the corporate activities that maintain or enhance the ability of the company to create value over the long term. SASB standards are intended for use in communications to investors regarding sustainability issues that are likely to impact corporate ability to create value over the long term. Use of SASB standards is voluntary. The following disclosure is based on SASB’s “Security and Commodity Exchanges” industry-specific standard. While not all disclosure topics within the “Security & Commodity Exchanges” industry-specific standard may be relevant to CME Group’s “sustainability” (as defined by SASB), in the interest of transparency, the below table provides requested information on a best efforts basis for 2023.

SASB Code	Description	CME Group Response
Promoting Transparent & Efficient Capital Markets		
FN-EX-410a.1	(1) Number and (2) average duration of (a) halts related to public release of information and (b) pauses related to volatility	<p>As a derivatives marketplace (not an equity marketplace), CME Group’s markets do not include equities of listed companies and, therefore, CME Group does not (and is not required to) halt its markets based on the public release of information. CME Group has several measures in place on its CME Globex electronic trading platform (CME Globex) that are designed to operate its markets in an efficient and orderly manner during volatile market conditions, including the following:</p> <ul style="list-style-type: none">• Daily Price Limits: Price limits represent the maximum price range permitted for a futures contract in each trading session. If a price limit is hit, the market remains open; however, it cannot trade above/below that price range.• Circuit Breakers: A series of price limits that, when reached, pause a market for a particular period of time to allow markets to reset.• Velocity Logic: CME Globex monitors for potentially significant price movements in extremely small time increments. Velocity logic works in conjunction with price banding to address market prices that move too far, too fast. If a velocity logic violation occurs, the applicable futures market is automatically temporarily suspended, as are all associated options markets.• Market-Wide Circuit Breakers: A control in CME Group equity products that suspends trading upon the activation of a market-wide regulatory halt pursuant to New York Stock Exchange Rule 7.12 or Nasdaq Stock Market Rule 4121. <p>During 2023, 285 circuit breakers were triggered and approximately 820 velocity logic events occurred. The duration of the pause or suspension is based on the applicable contract and activity in the market. During 2023, there were no market-wide circuit breakers.</p>
FN-EX-410a.2	Percentage of trades generated from automated trading systems	<p>The primary venue for trading CME Group futures and options is CME Globex, a resilient open access platform that provides global connectivity to CME Group markets.</p> <p>CME Group employs many policies, procedures and controls that assist in the mitigation of risks associated with any type of electronic trading on CME Globex, including robust protocols for risk management, operational and technological resiliency, market surveillance and cybersecurity. A highly granular and precise audit trail of all CME Globex activity allows us to identify and monitor the trading activity of participants on CME Globex both on a real-time and post-trade basis.</p> <p>The audit trail also allows us to identify activity originating from automated trading systems. Automated trading systems are used by nearly every type of participant, from farmers to market makers. Automated systems allow these participants to provide deep liquidity with narrow bid-ask spreads, reduce price and execution risk, minimize market impact and reduce costs.</p> <p>We believe that open interest—the total number of open futures and options contracts held by market participants at the end of each day—is a reliable measure of the sustainability of our markets. Open interest is a measure of market liquidity and the ability of a participant to efficiently initiate or offset a futures or options position. These metrics are available in the Daily Bulletin—Exchange Overall Volume and Open Interest on our Investor Relations page under Financial and Other Reports—Volume Reports.</p> <p>The notional volume traded and market depth data published daily for our cash markets businesses are also reliable measures of the sustainability of our cash Treasury and FX markets. These metrics are available in the UST Market Profile and FX Market Profile tools on the CME Group website.</p>

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SASB Code	Description	CME Group Response
FN-EX-410a.3	Description of alert policy regarding timing and nature of public release of information	As a derivatives marketplace (not an equity marketplace), CME Group’s markets do not include equities of listed companies and, therefore, CME Group does not (and is not required to) have an alert policy relating to listed companies’ public release of information or company developments that may affect a stock price (positively or negatively).
FN-EX-410a.4	Description of policy to encourage or require listed companies to publicly disclose environmental, social and governance (ESG) information	<p>As a derivatives marketplace (not an equity marketplace), CME Group’s markets do not include equities of listed companies and, therefore, CME Group does not (and is not required to) have such a disclosure policy.</p> <p>Our focus is on developing products and services for our clients’ evolving risk management needs, including the increasing focus on ESG information and services. As a global business operating in a complex environment, we understand the importance of developing both innovative and sustainable business solutions.</p> <p>Our ESG-related contracts and services are designed to help global customers manage price risk in today’s energy, metals and agricultural ecosystems as they develop new technologies and other initiatives to meet market movement towards alternative sources of cleaner energy and sustainable agriculture. We are continuously in conversations with our clients regarding our products and services. As the market evolves, our products and services will evolve to reflect changing client needs. Specifically, we continue to develop and enhance products that can help our clients manage risks associated with renewable energies and environmental change. ESG is a key priority in our product and services development.</p> <p>See the Sustainable Solutions section of this report on pages 15 to 20 and our website for more information on our suite of environmental products.</p> <p>Our leaders participate in and share their expertise with a number of high-profile initiatives and industry-led working groups, committees and taskforces designed to develop market-wide approaches to advancing more sustainable financial markets.</p>
Managing Conflicts of Interest		
FN-EX-510a.1	Total amount of monetary losses as a result of legal proceedings associated with fraud, insider trading, anti-trust, anti-competitive behavior, market manipulation, malpractice, or other related financial industry laws or regulations	<p>In accordance with applicable securities laws and regulations, CME Group includes a description of material legal proceedings (including of the type, if any, described in FN-EX510a.1) in our annual and quarterly filings on Forms 10-K and Form 10-Q, respectively.</p> <p>During 2023, the only legal and regulatory matter disclosed by CME Group in such filings was the putative class action complaint filed January 15, 2014 in the Circuit Court of Cook County, Chancery Division, against CME Group and the Board of Trade of the City of Chicago, Inc. The plaintiffs, certain Class B shareholders of CME Group and Class B members of CBOT, allege breach of contract and breach of implied covenant of good faith and fair dealing for violations of their core rights granted in the defendants’ respective Certificate of Incorporation. Based on investigation to date, the company believes that it has strong factual and legal defenses to the claims.</p>



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Managing Conflicts of Interest		
FN-EX-510a.2	Discussion of processes for identifying and assessing conflicts of interest	<p>CME Group has adopted a Code of Conduct that applies to its employees, internal consultants and temporary personnel resources. The Code of Conduct builds on CME Group's business principle of "leading with conviction and integrity" by setting the tone for a culture of compliance, ethical conduct and accountability, and providing greater detail about the behavior expected from our colleagues.</p> <p>The Code of Conduct is supplemented by a more detailed, separate Conflicts of Interest Policy, which sets forth the process for identifying, monitoring and managing actual and potential conflicts of interest. CME Group seeks to ensure that a conflict of interest does not adversely affect the interests of its organization, its clients, its shareholders or other stakeholders. CME Group employees, internal consultants and temporary personnel resources are required to disclose potential conflicts of interest, including but not limited to, those relating to personal relationships, outside business activities, financial interests and opportunities. These disclosures are reviewed and approved by the Compliance Department and management, as appropriate. In addition, CME Group colleagues must certify to the Code of Conduct and the Conflicts of Interest Policy on an annual basis. CME Group Board members are subject to the Board of Directors Code of Ethics, which requires that Board members avoid any circumstance that creates or appears to create a conflict between a Board member's own interests and the interests of the company. The Nominating and Governance Committee is responsible for compliance with the Board of Directors Code of Ethics. Board members must certify to this Code of Ethics on an annual basis.</p> <p>When identifying a situation where an actual or potential conflict of interest cannot be avoided, Compliance recommends appropriate actions to manage, document and, as applicable, report the situation.</p> <p>CME Group's program to address conflicts of interest includes:</p> <ul style="list-style-type: none">• Written policies (CME Group Code of Conduct, CME Group Conflicts of Interest Policy, Board of Directors Code of Ethics, Confidentiality and Data Protection Policy, Personal Trading Policy, Anti-Financial Crime Policy)• Disclosure obligations to identify, assess and manage potential conflicts of interest• Regular, ongoing reviews of disclosures under our Conflicts of Interest Policy by Compliance• Regular and ad hoc awareness raising measures, including as required based on our operation of regulated businesses• Separate supervision and segregation of functions• Confidentiality and information barriers• Checks, controls, monitoring and escalation in the case of non-compliance• Documentation and reporting to management and on an aggregated basis at the Board committee level• Reporting avenues, including a third-party operated helpline with anonymous reporting in all permitted locations



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SASB Code	Description	CME Group Response
Managing Business Continuity & Technology Risks		
FN-EX-550a.1	(1) Number of significant market disruptions and (2) duration of downtime	During 2023, CME Group's markets did not have any significant market disruptions.
FN-EX-550a.2	(1) Number of data breaches, (2) percentage involving personally identifiable information (PII), (3) number of customers affected	No material data breaches that required reporting under data privacy laws occurred during 2023.
FN-EX-550a.3	Description of efforts to prevent technology errors, security breaches and market disruptions	<p>CME Group has robust programs, policies and procedures reasonably designed to prevent technology incidents, security breaches and market disruptions.</p> <p>TECHNOLOGY</p> <p>CME Group maintains policies, standards, procedures and other documentation regarding its secure software development lifecycle, change management, availability management and capacity planning, among others, which contribute to the prevention of technology incidents.</p> <p>INFORMATION SECURITY</p> <p>Our Global Information Security Program is designed and operated to mitigate information security risks and threats to the company. Its intent is to safeguard the confidentiality, integrity and availability of CME Group's information and services. The program is designed to strengthen the integrity of the global markets we support, protect CME Group's information assets, maintain client and employee trust, support our pursuit of strategic objectives, contribute to shareholder value and preserve our reputation and brand. The program deploys a defense-in-depth strategy, acknowledging the importance of people, process and technology in upholding information security. The strategy incorporates multiple layers of controls, including, for example, monitoring, vulnerability management, identity and access management, multi-factor authentication and security assessments. The program implements and maintains technical, physical and administrative safeguards to protect the confidential and sensitive information of our clients, employees and other information in CME Group's stewardship. To achieve our objectives, we have chosen to base our Information Security Program on accepted industry frameworks. The NIST Cybersecurity Framework and other technical standards/frameworks (e.g., COBIT, FFIEC and ISO) are leveraged to incorporate best practices for managing information security on platforms relevant to the business. As part of the Global Information Security Program, valuable external partnerships are established and maintained in order to gain more timely, comprehensive and actionable threat information across geographies and industries, and to facilitate the exchange of best practices and security techniques. These relationships and partnerships allow for a high degree of collaboration and cooperation with local, state, federal and international law enforcement and intelligence agencies, industry groups and other private sector chief information security officers.</p>



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Managing Business Continuity & Technology Risks		
FN-EX-550a.3 (continued)	Description of efforts to prevent technology errors, security breaches, and market disruptions (continued)	<p>The program includes ongoing cyclical management of vulnerabilities, including coordination of identification, classification, remediation, mitigation and metrics. Internal systems and third party contracted organizations are engaged in order to execute internal and external penetration tests and vulnerability assessments. The program also includes solutions and processes that strengthen our security posture related to the provisioning, deprovisioning and access to our systems based on the principles that information should be limited to those with a need for access subject to strong authentication.</p> <p>As part of the Global Information Security Program, CME Group operates a state-of-the-art Cyber Defense Center that links virtually to its dedicated 24/7 international operational cybersecurity teams and serves as a global hub for activities including log collection, event monitoring, threat detection and incident response, resiliency, operations, vulnerability management and the proactive collection and processing of both open source and proprietary threat and intelligence feeds allowing the company to efficiently manage, quickly investigate and respond to cybersecurity events. CME Group's Global Information Security team conducts analysis and aims to prevent, detect and respond to systemic events that might threaten our company, industry or the economy.</p> <p>The Information Security Program is led by CME Group's Chief Information Security Officer (CISO) who reports to our Chief Information Officer, a member of our Management Team. The program is overseen by the Risk Committee of the CME Group Board of Directors and the CISO has an indirect reporting line to the committee.</p> <p>MARKET REGULATION DEPARTMENT</p> <p>The CME Group Market Regulation Department is responsible for monitoring our markets to identify and prevent potential rule violations, including disruptive trading practices. The department utilizes sophisticated regulatory systems to conduct market and trade practice surveillance. A key element of our Regulation Program is educating our market participants about the requirements and expectations detailed in our rulebooks and trading advisories. When violations are identified and disciplinary action may be warranted, enforcement proceedings are conducted before a disciplinary panel, and appropriate disciplinary actions are taken.</p> <p>OPERATIONAL RESILIENCE PROGRAM</p> <p>The CME Group Operational Resilience (OpRes) Program serves to mitigate potential impacts to our markets, clients, assets and employees and to safeguard the effective availability of critical products and services. The OpRes Program is designed to ensure that CME Group can respond appropriately to incidents while protecting the interests of its stakeholders, ensuring the safety of employees and protecting its reputation and brand.</p> <p>Our OpRes team continually identifies new and changing business risks to our operations across all CME Group locations through internal monitoring and planning, industry and agency partnerships and various information sharing organizations across the globe. The OpRes team works with departments and employees across the company to assess risks at varying levels of severity. We have developed a framework for mitigating these risks designed to ensure our business and our markets continue to operate effectively through various resiliency strategies.</p> <p>Key aspects of the OpRes Program include:</p> <ul style="list-style-type: none">• System Resilience (Disaster Recovery): helps ensure CME Group can recover its systems following an event that impacts the delivery of technology services through production environments or deployments. This is done by establishing requirements, approving system design and testing that systems can meet their requirements – including their ability to recover with their applicable recovery time objectives as identified within the Business Resilience BIAs and/or by applicable regulatory mandate. As part of the System Resilience Program, CME Group holds various and ongoing system resilience exercises, which include full failover exercises, response and recovery documentation and the maintenance of various resiliency strategies. OpRes' testing strategy includes failing over all applications that reside in CME Group data centers and cloud providers.• The Business Resilience Program: designed to help ensure CME Group can rapidly adapt and respond to internal or external changes – demands, disruptions or threats – while prioritizing essential business operations and safeguarding people and assets.• Crisis Analysis and Response: monitors and prepares for unique, high-risk events and potential market threats and ensures the appropriate expertise is gathered from across the enterprise to evaluate, plan for and manage any incidents that may impact markets, customers and brand. <p>Efforts have been taken to align the OpRes Program with industry-best practices classified in NIST and other applicable U.S. and international standards stemming from our categorization as a systemically important market utility and systemically important derivatives clearing organization.</p>



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Managing Business Continuity & Technology Risks		
FN-EX-550a.3 (continued)	Description of efforts to prevent technology errors, security breaches, and market disruptions (continued)	<p>INFORMATION GOVERNANCE AND DATA PRIVACY</p> <p>CME Group is committed to protecting its proprietary, confidential and personal data, including information relating to its business, customers, vendors, strategic partners, employees and other third parties. We have an established Information Governance and Privacy Program which is designed to support our company in managing our data and corporate information in compliance with applicable laws and regulations and reducing risk associated with our data.</p> <p>THIRD-PARTY RISK MANAGEMENT</p> <p>CME Group maintains a Third-Party Risk Management (TPRM) Program designed to identify, assess and manage potential risks relating to the engagement of certain third parties that support CME Group in delivering its business strategy, including the operation of its markets. TPRM monitors third parties who present moderate to critical risk throughout their engagement lifecycle. The TPRM Program coordinates with Procurement, Legal, Information Security, Information Governance/Privacy and OpRes teams, allowing our contracts and vendor renewals to align to our risk management posture, provide adequate assurance and meet regulatory requirements. The OpRes team works with TPRM to help provide assurances that third-party vendors impacting our critical operations have business continuity and disaster recovery plans to minimize service interruptions and control issues, whenever unforeseen disturbances arise involving a third party's operation.</p> <p>INSURANCE</p> <p>We maintain insurance coverage that may, subject to the terms and conditions of the policy and payment of significant deductibles, cover certain aspects of cybersecurity issues.</p> <p>MONITORING, TESTING AND AUDIT</p> <p>We have adopted a risk-based approach to our monitoring, testing and auditing practices, which is consistent with our overall Enterprise Risk Management (ERM) Program and the levels of acceptable appetite for managing key risks associated with our business and strategy as approved by the Board of Directors. Through the ERM Program, we provide a comprehensive review of our risk management practices and endeavor, in an ongoing manner, to provide assurances that enterprise risks, including those relating to technology errors, security breaches and market disruptions, are identified, assessed, measured, prioritized and reported by management responsible for the respective risks.</p> <p>The CME Group Internal Audit function and our IT Controls and Compliance team conduct independent testing and monitoring utilizing various methods to verify compliance with written policies and procedures, validate control effectiveness and assess risk exposure from identified control weaknesses or gaps. In addition, our regulated businesses are subject to examinations from multiple regulatory bodies, including the CFTC. We conduct internal security audits and vulnerability assessments as well as internal and external penetration tests, tests of our cyber security incident response protocols and regulatory IT control testing.</p> <p>CME Group has obtained the ISO27001 information security certification, an international standard signifying that CME Group manages information security with processes that preserve the confidentiality, integrity and availability of information.</p> <p>Our Data Privacy Program is subject to periodic internal audits and external assessments.</p>



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SASB Code	Description	CME Group Response
Activity Measures		
FN-EX-000.A	Average daily number of trades executed by product or asset class	<p>FUTURES AND OPTIONS ON FUTURES CONTRACTS (in thousands)</p> <p>CME Group reports trading activity in its futures contracts by volume. Volume is calculated by counting the number of contracts that have been bought and sold over a given time. The following summarizes average daily contract volume for 2023.</p> <p>Aggregate Average Daily Volume: 24,394</p> <p>Average Daily Volume by Product Line: Interest rates: 12,517 Equity indexes: 6,698 Foreign exchange: 954 Agricultural commodities: 1,508 Energy: 2,118 Metals: 599</p> <p>Average Daily Volume by Venue: CME Globex: 22,353 Open outcry: 1,145 Privately negotiated: 896</p> <p>CASH MARKETS BUSINESS (in billions)</p> <p>CME Group reports trading activity in its cash markets business by notional value. Notional value is calculated by multiplying the contract unit by the contract's price. The following summarizes related average daily notional value for 2023:</p> <p>European Repo (in euros) \$326.5 U.S. Treasury: \$106.1 Spot FX: \$56.7</p> <p>We report these market statistics in our periodic reports filed with the U.S. Securities Exchange Commission and they are also available on our website at http://investor.cmegroup.com/volume, including greater detail on average daily volume.</p>
FN-EX-000.B	Average daily volume traded, by product or asset class	See the information provided above under FN-EX-000.A.

NOTES:

This report is limited to operations controlled by CME Group Inc. All amounts regarding contract volume are for CME Group's listed futures and options on futures contracts unless otherwise noted. Total contract volume includes contracts that are traded on our exchange(s) and cleared through our clearing house and certain cleared-only contracts. Volume is measured in round turns, which is considered a completed transaction that involves a purchase and an offsetting sale of a contract.



2023 GREENHOUSE GAS (GHG) EMISSIONS SUMMARY

The table below shows 2023 total GHG emissions by Scope and Category⁷

Scope		Units	Total Usage	Emissions (MT CO ₂ e) – Location	% of Total (Scopes 1 + 2 + 3)	Emissions (MT CO ₂ e) – Market	% of Total (Scopes 1 + 2 + 3)
1	Direct Emissions from Owned or Controlled Sources			309	0.3%	309	0.3%
1	Natural Gas	MWh	669	121	0.1%	121	0.1%
1	Diesel	MWh	721	181	0.2%	181	0.2%
1	Mobile Combustion	miles	33,382	7	0.0%	7	0.0%
2	Indirect Emissions from Purchased Energy			10,448	8.7%	10,417	11.4%
2	Electricity	MWh	26,120	9,564	8.0%	9,533	10.4%
2	District Cooling (Chilled Water)	Ton-hours	1,389,189	884	0.7%	884	1.0%
3	All Other Indirect Emissions			108,793	91.0%	80,753	88.3%
3	Fuel and Energy Related	var.	-	580	0.5%	580	0.6%
3	Business Travel (Air Flights)	miles	13,675,991	2,119	1.8%	2,119	2.3%
3	Employee Commuting	var.	-	1,380	1.2%	1,380	1.5%
3	Purchased Goods + Services	USD	56,013	56,013	46.9%	56,013	61.2%
3	Capital Goods	USD	16,365	16,365	13.7%	16,365	17.9%
3	Upstream Leased Assets	MWh	37,217	15,361	12.9%	790	0.9%
3	Downstream Leased Assets	MWh	30,579	13,743	11.5%	274	0.3%
3	Water	ML	-	-	-	-	-
3	Waste	MT	487	3,232	2.7%	3,232	3.5%
Total				119,550		91,479	

⁷ Percentages may not add up to 100% due to rounding.

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About CME Group

As the world's leading derivatives marketplace, CME Group (www.cmegroup.com) enables clients to trade futures, options, cash and OTC markets, optimize portfolios, and analyze data – empowering market participants worldwide to efficiently manage risk and capture opportunities. CME Group exchanges offer the widest range of global benchmark products across all major asset classes based on [interest rates](#), [equity indexes](#), [foreign exchange](#), [energy](#), [agricultural products](#) and [metals](#). The company offers futures and options on futures trading through the [CME Globex®](#) platform, fixed income trading via BrokerTec and foreign exchange trading on the EBS platform. In addition, it operates one of the world's leading central counterparty clearing providers, CME Clearing.

Questions?

To learn more about CME Group's ESG strategy & initiatives, please contact us at esg@cmegroup.com

CME Group Inc. makes every effort to use reliable, comprehensive information, but we make no guarantee that it is accurate or complete. We have no obligation to tell you when opinions or information in this report change. This report is intended to highlight some of the work of CME Group in the areas of environmental, social and governance; it is not comprehensive or necessarily representative of all our activities in those areas.

Details on our financial performance can be found on our corporate website and in our public filings available through the U.S. Securities and Exchange Commission (SEC). Our ESG reporting describes those topics which we consider to be the most important to stakeholders when evaluating environmental, social and governance issues at CME Group. Therefore, materiality and its relevant definition as used in this report and our ESG materiality review process is different than the definition used in the context of filings with the SEC and under the long-standing U.S. Supreme Court definition of that term. Issues deemed material or relevant for purposes of this ESG report and for purposes of determining our ESG strategies may not be considered material for SEC reporting purposes.

This report contains "forward-looking statements" within the meaning of the safe harbor provisions of the U.S. Private Securities Litigation Reform Act of 1995. Forward-looking statements are not historical facts, but instead represent only the company's beliefs regarding future events, many of which, by their nature, are inherently uncertain and outside of the company's control. It is possible that the company's actual results may differ, possibly materially, from the anticipated goals and targets indicated in these forward-looking statements. For information about some of the risks and important factors that could affect the company's future results, see "Risk Factors" in Part I, Item 1A of the company's Annual Report on Form 10-K for the year ended December 31, 2023 and "Risk Factors" in Part II, Item 1A of the company's subsequent Quarterly Reports on Form 10-Q. CME Group does not undertake to update any forward-looking statements.

Unless otherwise noted, this report covers initiatives and performance metrics associated with our global operations from January 1 through December 31, 2023. Our past reports are available on our website.

All figures regarding contract volume are for CME Group's listed futures and options on futures contracts unless otherwise noted. Total contract volume includes contracts that are traded on our exchange(s) and cleared through our clearing house and certain cleared-only contracts. Volume is measured in round turns, which is considered a completed transaction that involves a purchase and an offsetting sale of a contract.

Third parties, including charities, mentioned within this report are not affiliated with CME Group, unless otherwise disclosed. The CME Group Foundation is separate from the CME Group Inc. organization. Any mention of the third parties should in no way be considered to be a solicitation or endorsement by CME Group on behalf of the third parties named.

Improving the quality, timeliness and availability of data is a key component to properly measure emissions and monitor progress over time. There are well-known challenges with the quality and reliability of emissions data in many sectors. This means we sometimes rely on estimated versus directly measured emissions data. Over the years we have made a number of improvements to our reporting. The metrics provided in this report reflect our commitment to transparency and progress but are not suitable for immutable year-over-year comparisons at this time.

Calculations and reporting have been done in accordance with the GHG Protocol and also with U.K. SECR mandated reporting with the assistance of an external firm with expertise in this area. Scope 1 GHG emissions are direct emissions from sources that are owned or controlled by the company. Scope 2 GHG emissions are indirect emissions from sources that are not owned or controlled by the company. Scope 1 and Scope 2 operational emissions were calculated using real whole building and prorated data within each building location. For locations where this information could not be obtained, a value per square foot of office space was used. As a result of exiting from certain premises in 2023 and changes to the way some landlords report data, we have updated our emissions methodology for 2023. Consequently, CME Group's Scope 2 and 3 market-based emissions have reduced by some margin. Scope 3 GHG emissions are the result of activities from assets not owned or controlled by CME Group, but that CME Group indirectly impacts in its value chain. Assumptions for Scope 3 emissions are inherently more common than those for Scope 1 and Scope 2 emissions. Where actual activity-based data was available, it was used for Scope 3 emissions calculations. The majority of Scope 3 emissions were calculated using the GHG Protocol's spend-based method.

In order to better align with our operational reporting boundary, to conform with evolving industry best practices and based on better information from landlords and data center providers, we made a number of improvements to our reporting, including some notable landlords or data center providers consider certain portions of emissions (particularly with respect to cooling) as their Scopes 1 or 2 emissions. In those cases, we report those emissions in our Scope 3 Upstream Lease Assets category so as to avoid double counting of emissions.

Due to the limited amount of operational control, emissions related to third party subtenants who sublease from CME Group are either excluded from our emissions or considered to be within our Scope 3 Downstream Leased Asset emissions depending on the circumstances and industry best practices.

Emissions related to colocation customers in our largest data center located in Aurora, Illinois is particularly complicated. Because CME Group has limited operational control or influence over procurement of data center equipment in these spaces nor control over how the equipment is operated, emissions related to powering this equipment is reported as Scope 3 downstream emissions for CME Group. Our environmental disclosure initiatives will continue to evolve and new strategies will be developed and implemented and discussed in our future ESG reports.

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