

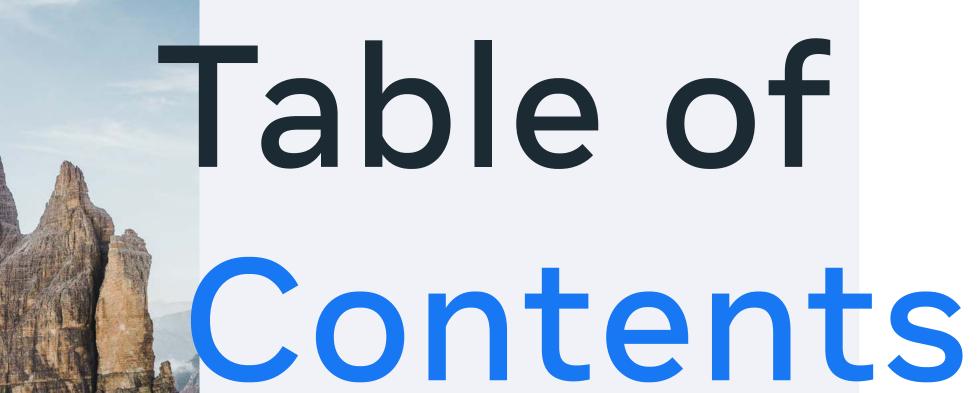
2023 Sustainability Report







Meta





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A MESSAGE FROM

Rachel Peterson

VICE PRESIDENT, DATA CENTER STRATEGY

As of 2020, our global operations reached net zero emissions and are supported by 100% renewable energy. We are now reaching toward the goals of net zero emissions across our value chain and becoming water positive throughout our operations, aiming to achieve both of these milestones in 2030.

Meta's net zero in 2030 goal focuses on embedding sustainability into everything we do, whether designing products, commuting, selecting construction materials or working with suppliers to set their own net zero targets. For example, through our Net Zero program, we work closely with

suppliers to determine their Scope 1, 2 and 3 emissions, set reduction targets and promote strategic action.

We know that reaching net zero emissions across our value chain will not be an easy task. Right now, our Scope 3 emissions are increasing and will continue to do so as we work to support the global demand for the services we provide.

We see our role as protecting people and the planet through responsible operations minimizing our emissions and the energy and water used to power our data centers that enable users to access our products and the workplaces where those

products are built and managed while protecting workers and the environment in our supply chain.

Within our global footprint, our data centers generate the highest percentage of our energy use, water use and GHG emissions, which is why increasing their efficiency is critical in maintaining net zero operations and striving for a net zero value chain.

Our approach to data center sustainability focuses on using less — less energy, water, unnecessary infrastructure, and waste — and building the most efficient buildings we can. We further reduce our environmental Our challenge, to transform impact through renewable energy, our ambition into rapid

water stewardship, circularity, and low-carbon alternatives.

Operating sustainable data centers is foundational to our sustainability strategy. Our strategy is anchored by three components — how we operate, what we create and how we collaborate.

Our size and global reach give us the opportunity — and the responsibility — to drive sustainable change across our industry. Our work to reduce emissions will drive market availability for other companies to do the same.

decarbonization, extends beyond our data centers and offices, including emissions from the server components our suppliers manufacture to our employees' commutes. We do not have all of the answers yet, but we commit to continuing to share our journey with you through this annual report.

This report details our progress in 2022 and looks to the challenges facing us in 2023 and beyond. Follow our journey by visiting our sustainability homepage ↗.

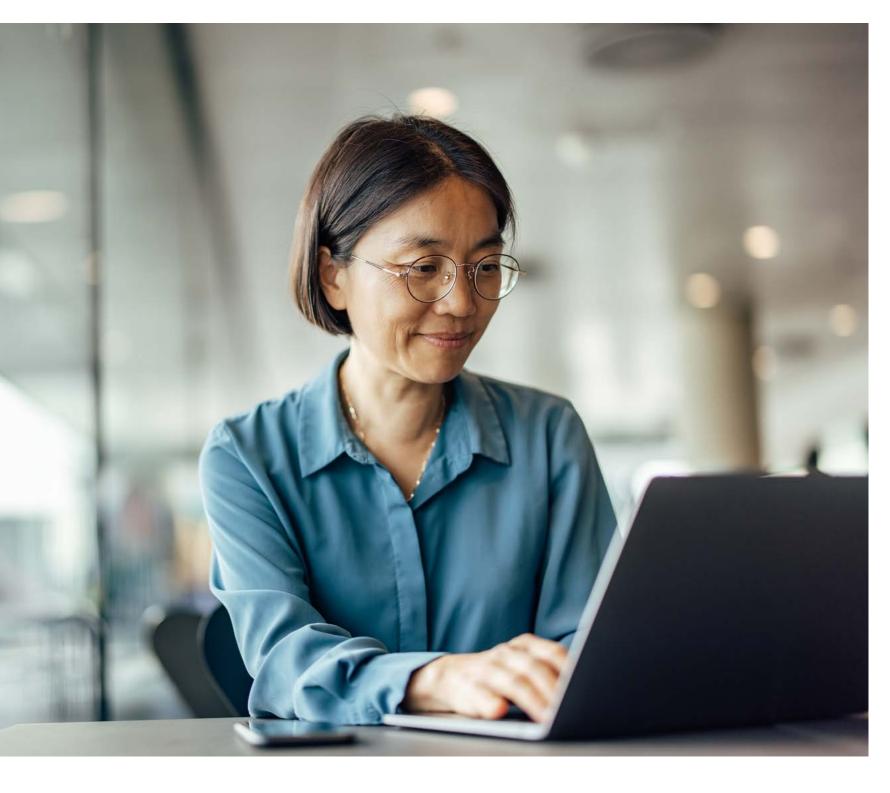
Giving people the power to build community and bring the world closer together.

Our mission

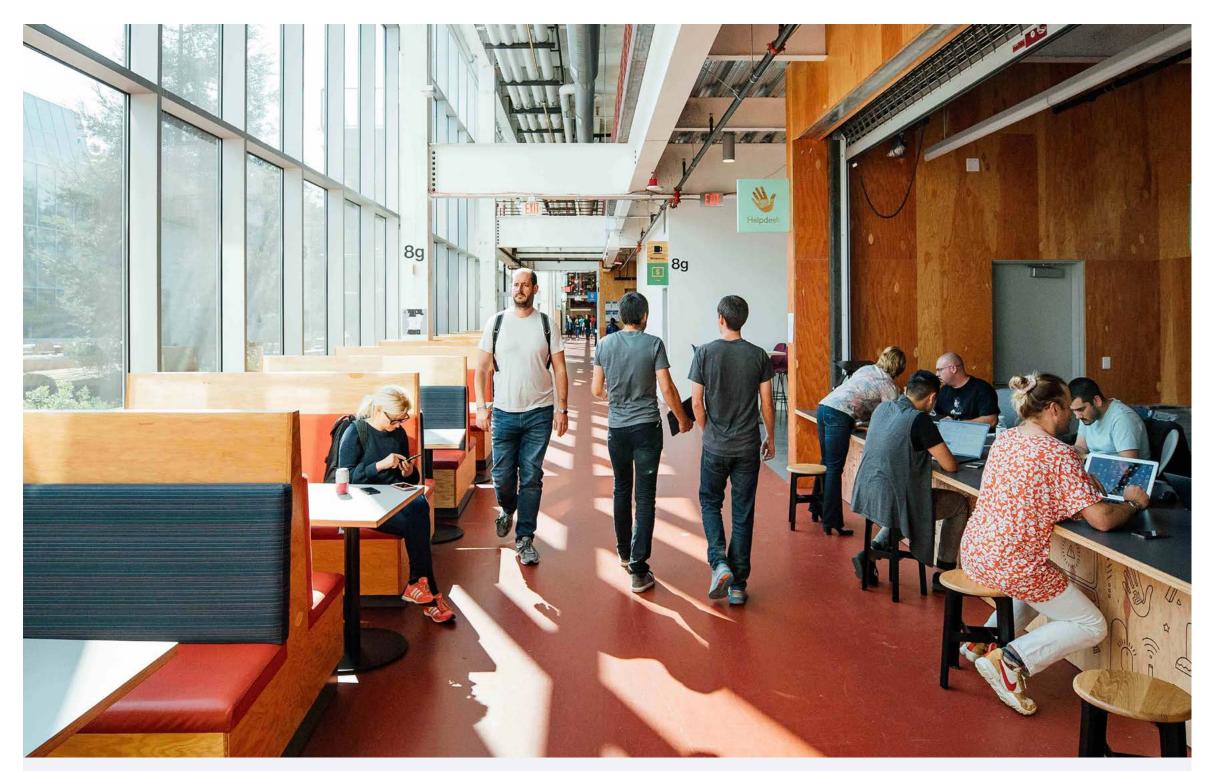


About Meta

META BUILDS TECHNOLOGIES THAT HELP PEOPLE CONNECT, BUILD COMMUNITIES AND GROW BUSINESSES.



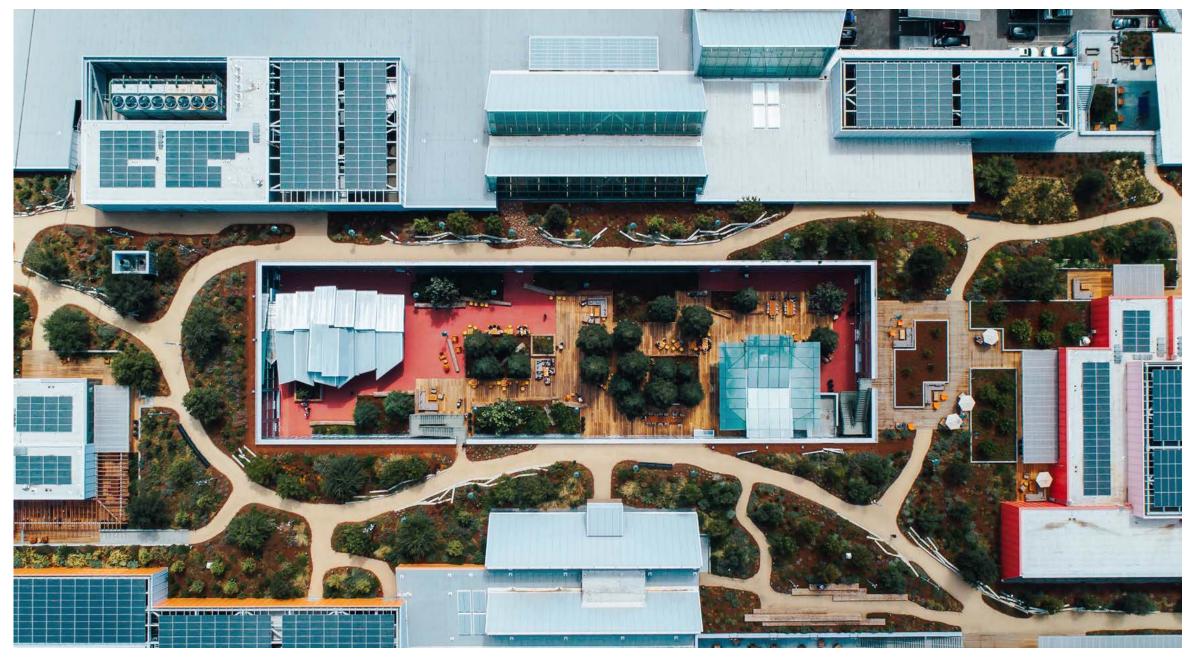
When Facebook launched in 2004, it changed the way people connect. Apps like Messenger, Instagram, and WhatsApp further empowered billions around the world. Now, Meta is moving beyond 2D screens toward immersive experiences like augmented and virtual reality (AR/VR) to help build the next evolution in social technology.



Data Index

We have offices in more than 90 cities across North America, Europe, the Middle East, Africa, Asia Pacific and Latin America. We also own 21 data center locations globally.

About this report





In line with TCFD
recommendations, we conduct
climate-related risk and
opportunity assessments to help
us take the right measures to
build our company's resilience.
We disclose emissions annually
based on the Greenhouse Gas
(GHG) Protocol and update our
GHG emissions as we increase

the accuracy of our data. Our environmental metrics and methodology can be found in the index of this report. In 2022, our external auditor, Apex Companies, LLC, audited our environmental data. You can access our audit certifications here ↗. Our full data index can be found here ↗.

2023 environmental sustainability progress

Meta's 2023 Sustainability
Report reflects our work during
the 2022 fiscal year (January
1-December 31, 2022) unless
otherwise noted. It builds on
topics outlined in our

2023 Responsible Business

Practices Report → and
immediately follows our 2021

Sustainability Report →.

This year's report was prepared in reference to the Global Reporting Initiative (GRI) standards with guidance from

the Sustainability Accounting
Standards Board (SASB),
Internet and Media Services
Industry Standards; the United
Nations (UN) Global Compact,
the UN Sustainable Development
Goals (SDGs); and the Task Force
for Climate-Related Financial
Disclosures (TCFD).



Our sustainability vision

We are in the business of building better realities — and not just virtual ones.



We envision a just and equitable transition to a zero-carbon economy and are working in partnership with others to scale inclusive solutions that help create a healthier planet for all, ensuring that no one is left behind.

We see our role as protecting people and the planet through responsible operations — minimizing our emissions and

the energy and water used to power our data centers that enable users to access our products and the workplaces where those products are built and managed — while protecting workers and the environment in our supply chain.

At the same time, we acknowledge we will not realize this vision on our own. We continue to collaborate with

community members, climate action leaders and scientists to innovate beyond what is possible today. We are leveraging our core apps and services to enable access to climate science information and to accelerate action-oriented resources for tomorrow.

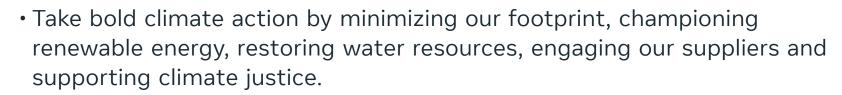
Data Index

For a better reality



How we operate

We are committed to protecting what is truly important: The well-being of people and our planet.



- Respect human, labor and civil rights in our operations and supply chain.
- Cultivate diversity and inclusion in our operations.
- Boost energy and water efficiency in our data centers.



What we create

We push the boundaries of what is possible, creating solutions where none existed and building apps and services that enable change.

- Provide access to new ideas, accurate information and ways to take action via content on our platforms.
- · Amplify content from scientists and climate action leaders.
- Design new apps and services with diverse needs and values in mind.
- Elevate small businesses and spur economic growth.
- Integrate circular practices in our facilities and hardware.



How we collaborate

We tackle the important issues by creating partnerships and joining established initiatives.

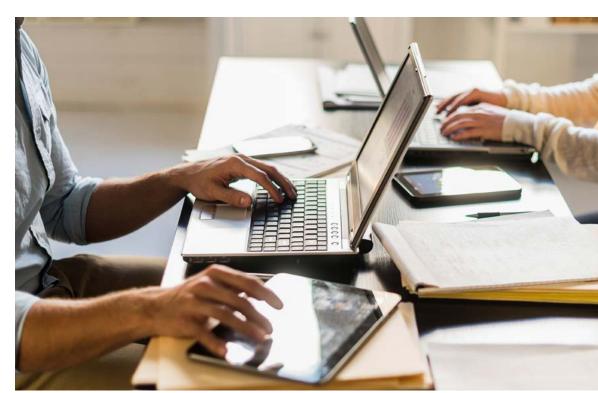
- Engage experts to guide our sustainability and social impact initiatives.
- Connect researchers with insights.
- Join forces with non-governmental organizations (NGOs) and community organizations to create and implement locally beneficial environmental initiatives.
- Work with local power utilities to enable our facilities and local businesses to procure renewable energy.
- Share our environmental learnings and practices throughout the tech industry and beyond.

How we operate

To create a better reality, we must start by improving our own practices, processes and culture.



To be good stewards of our planet and maintain the trust of shareholders, employees, suppliers, customers and partners, we must operate sustainably, responsibly and ethically and communicate transparently in everything we do.



Path to net zero

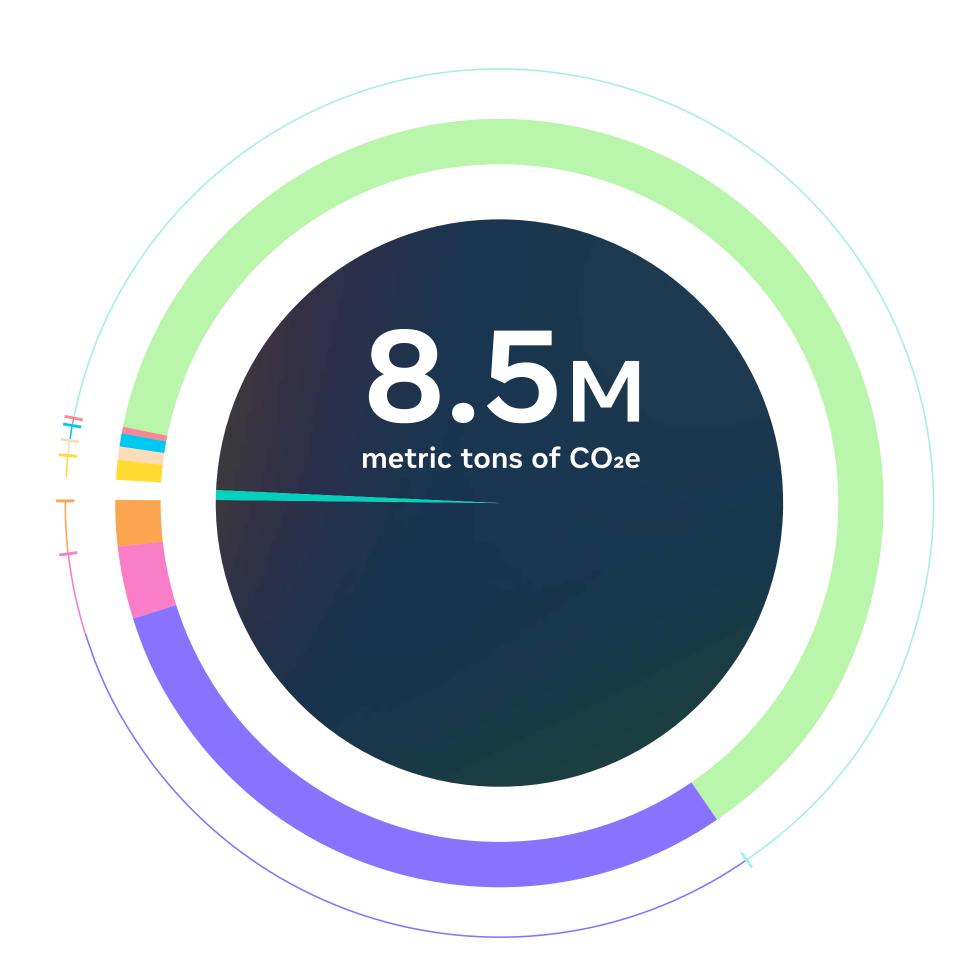
SINCE 2020, WE HAVE MAINTAINED NET ZERO EMISSIONS IN OUR GLOBAL OPERATIONS.

To get there, we reduced our operational emissions by 94% from a 2017 baseline, primarily by supporting our data centers and offices with 100% renewable energy. Our renewable energy commitments have reduced our GHG emissions by more than 12.3 million metric tons of carbon dioxide equivalent (CO₂e) since 2018.

But reaching net zero emissions in our operations is not enough. Meta's responsibility to decarbonize our footprint extends beyond our data centers and offices. To align with the Paris

Agreement 7, we have set a goal to reach net zero emissions across our value chain in 2030.

We know that achieving net zero value chain emissions in 2030 is going to be difficult, and this challenge requires material shifts in how we build infrastructure and operate our business. Our approach to reaching our goal will evolve over time as we transform our business and explore climate solutions that will scale with varying degrees of success.



Meta's 2022 carbon footprint

1%	Scope 1	66,934
<1%	Scope 2	273
99%	Scope 3	8,466,264
30%	Purchased Goods & Services	2,545,466
63%	Capital Goods	5,346,583
<1%	Fuel & Energy-Related Activities	12,658
2%	Upstream Transportation & Distribution	176,636
<1%	Waste Generated in Operations	18,519
3%	Business Travel	251,807
<1%	Employee Commuting	45,054
<1%	Upstream Leased Assets	3,444
<1%	Downstream Transportation & Distribution	16
<1%	Use of Sold Products	62,306
<1%	End-of-Life Treatment of Sold Products	3,775

mt CO₂e



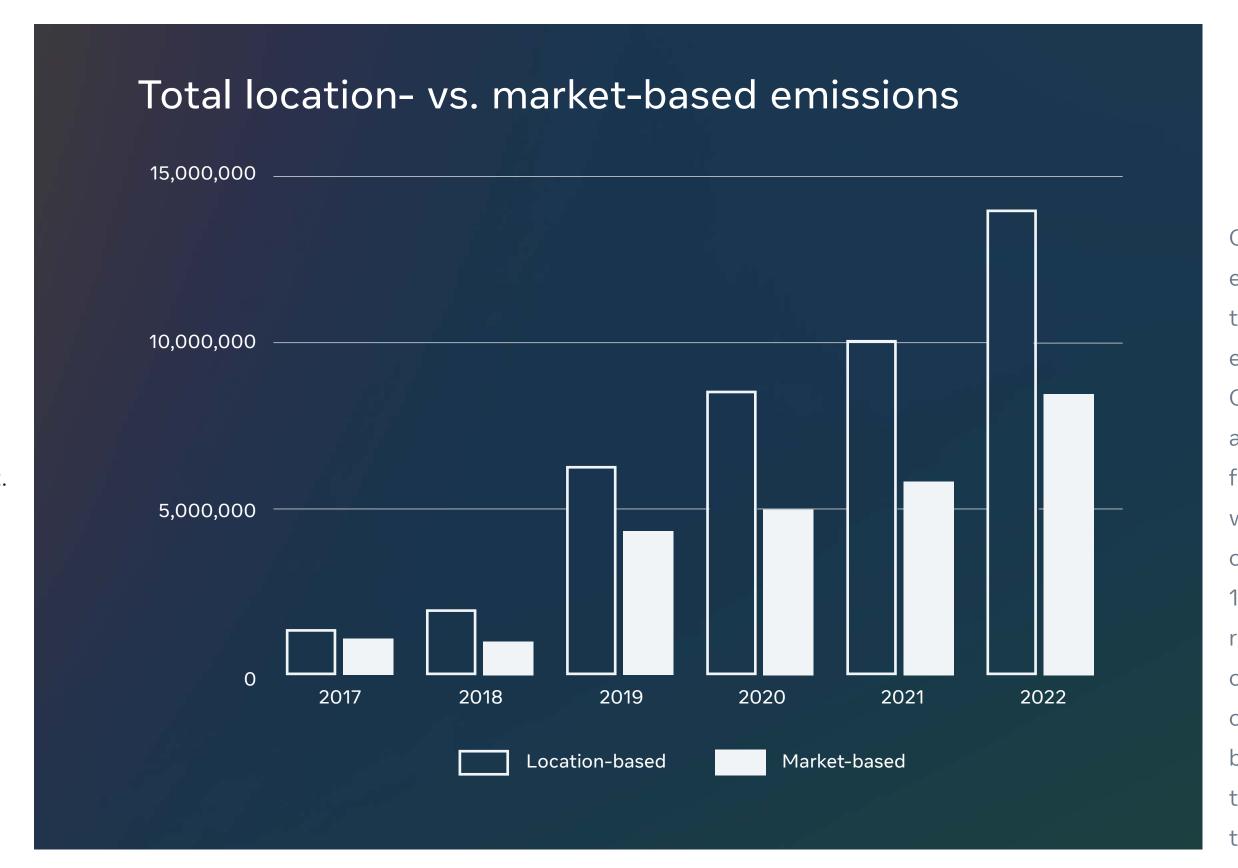
We removed 80,000 tons of CO₂ through carbon removal projects to cover our Scope 1 and 2 emissions.

Path to net zero

Early in this decade, we do not expect decarbonization and business growth to be in harmony. In fact, our emissions increased 46% in 2022 due to Meta employees returning to offices and because our business growth accelerated at a faster pace than we can scale decarbonization measures.

This reality underscores the need for us to drive innovative solutions across our business and in collaboration with our suppliers today, so that growth can happen sustainably. We are already seeing tangible results in our push to decarbonize our operations. Particularly, our market-based emissions were

based emissions in 2022, reflecting significant emissions reduction from initiatives such as our procurement of 100% renewable energy. In the coming years, we will build upon the strong foundation for emissions reduction we have set in 2022 with our suppliers and across our value chain as detailed throughout the rest of this report. More details on our path to net zero can be found here ₹.



Our 2022 market-based emissions were 39% smaller than our location-based emissions (14 M tons CO₂e). Our market-based emissions adjust for emissions reductions from purchasing decisions we have made. This includes our contracting of more than 10,000 megawatt (MW) of renewable energy and purchase of more than 1 million gallons of sustainable aviation fuel for business travel, which has an up to 80% lower carbon footprint than traditional jet fuel.

Path to net zero



Reducing our emissions

Reducing GHG emissions across our global operations and value chain is a top priority and the most effective strategy to reach net zero. Failure to reduce emissions today will lock in high-carbon intensity business tomorrow. Rapid decarbonization is our best chance to limit the worst impacts of climate change, which is critical to sustain healthy and equitable communities.

We are setting a sciencealigned emissions reduction
target in line with what is
necessary to transition to a
zero-carbon future, and we have
roadmapped our strategy to
systematically transform the
way we do business.



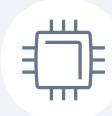
The core principles guiding our approach to emissions reduction include:



Designing with less and reducing the volume of materials in construction and hardware, extending the life of hardware components and reducing waste.



Choosing better and incorporating principles of circularity into our supply chain, construction and purchases.



Embracing low-carbon technology and finding alternatives such as low-carbon fuels and innovative new materials.

Path to net zero

Enabling renewable energy

Supporting our operations with 100% renewable energy is critical to our net zero strategy and is no small task as our business continues to grow.



Our portfolio of more than 10,000 MW of contracted renewable energy projects makes Meta one of the largest corporate buyers of renewable energy globally, and the corporation with the <u>largest operating portfolio</u> in the U.S., with more than 5,500 MW online.

Photo courtesy of Ørsted

SUPPORTING EFFORTS TO DECARBONIZE ELECTRICITY GOES WELL BEYOND THE PROCUREMENT OF RENEWABLE ENERGY FOR OUR OWN OPERATIONS.

We partner with many of the largest utilities in the U.S. to add renewable energy onto their systems in ways that work for both Meta and other customers.

Not all utilities offer electric rates (or tariffs, as utilities call them) that allow customers to support their facilities with new renewable energy projects. When this is the case, we work with utility partners to create green tariffs that provide our facilities, and other energy customers, with the

opportunity to pursue renewable energy projects via their retail electricity service and address their own sustainability goals.

Our renewable energy projects represent an estimated \$14.2 billion of capital investment in new infrastructure, supporting an estimated 74,000 one-year jobs throughout the U.S. over the 10-year construction phase (averaging 7,400 jobs per year).

Path to net zero

Putting emissions first

Meta is part of the Emissions

First partnership, a coalition
of like-minded companies that
created a set of objectives and
principles aiming to update
purchased electricity GHG
emissions accounting systems
to better drive carbon reductions.

GHG accounting standards
provide the framework
companies use to ensure the
climate solutions they pursue
are credible and will meet
the criteria to be included in
corporate climate goals.

To reduce emissions from purchased electricity (Scope 2), accounting standards and emissions calculation programs

encourage companies to
purchase an amount of
renewable energy equal to that
of the electricity purchased.

This approach has driven hundreds of new renewable energy projects onto grids around the world. Since 2012, Meta's corporate procurement has galvanized more than 10 gigawatts (GW) of new renewable energy, enough to power more than 750,000 homes.

Focusing on the emissions impact of electricity generation rather than comparing megawatt-hours used vs megawatt-hours purchased is critical to unlocking decarbonization at scale.



Silicon Ranch Solar

We've partnered with
Silicon Ranch, one of the
largest independent power
producers in the U.S.,
on 16 projects totaling
approximately 1,500 MW of
new solar energy, including
720 MW contracted in
Georgia and Tennessee in
2022. Silicon Ranch's model
of land management colocates renewable energy
production with regenerative
agriculture practices.

Engaging our suppliers to drive net zero progress

To help us reach net zero emissions across our value chain in 2030, we are partnering with our suppliers to commit to science-aligned GHG reduction targets and to use 100% renewable energy for Metarelated production and services.

By the end of 2026, we intend to engage with suppliers that represent at least two-thirds of our supplier spend budget through:



Capacity building

Deliver capacity-building content to enhance suppliers' sustainability maturity.



Accounting

Gather annual GHG emissions and help suppliers understand the material activities leading to those emissions.



Target setting

Engage collaboratively with suppliers to set GHG reduction targets for 2025 and 2030 in alignment with the science and the context of our business together.



Execution

Work directly with suppliers to create accountability, partnerships and executable action plans in a supplier-specific, prioritized manner.

Path to net zero



Removing what we can't eliminate

While our climate strategy prioritizes achieving significant emission reductions, some emissions from hard-to-abate sectors will remain difficult to eliminate by 2030. Any residual emissions we cannot eliminate

will require carbon removal projects to reach our net zero goal.

Supporting a diverse portfolio of natural and technological carbon removal projects is essential to maximize near-term climate impact while supporting necessary carbon removal solutions for the future.

Nature-based carbon removal projects are available now and begin sequestering carbon within the first years of implementation. These projects also address the multifaceted nature of climate change beyond carbon sequestration and can provide positive local impacts such as supporting community resilience or increasing the ecological health of a region.

Emerging technologies like direct air capture will be a necessary complement to emissions reduction and nature-based removals in order for the world to reach a zero carbon future. These projects will require early demand signals to scale and are in various stages of research, development, and deployment; nevertheless, many have a high global climate

mitigation potential. These
technologies can offer durable
carbon storage, especially
geologic storage that is less
vulnerable to reversal. Supporting
a wide range of projects today
aligns with the urgency needed
to address climate change.

Our carbon removal projects:

- Demonstrate additionality.
- Are designed and monitored for durable carbon storage.
- Support local livelihoods to enable climate justice and equity.
- Benefit the environment by supporting biodiversity, habitat or water resources.
- Are quantified using existing standards and verified by a third party.



Photo courtesy of Western Rivers Conservancy

Our strategy seeks to expand the voluntary carbon market toward the types of high-quality projects we value and that align with the highest environmental and social standards. In 2022, we supported agroforestry, improved forest management and ecological

restoration projects in California,
Australia and Mexico. You can
read more about our carbon
removal projects here 7.

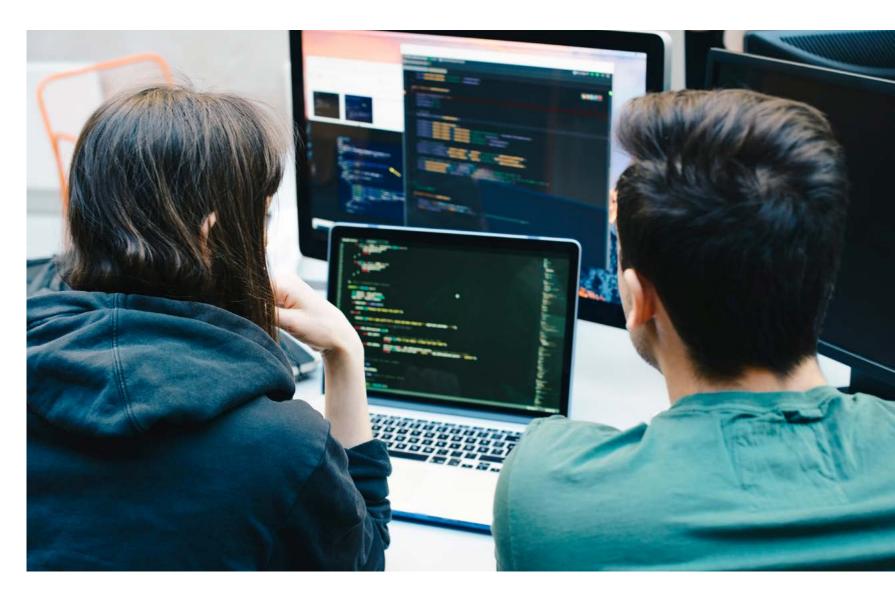
Responsible supply chain

Meta is part of a complex value chain that touches lives and communities around the globe. Our Responsible Supply Chain empower workers and protect the environment — through open and frequent communication with our suppliers; deep understanding of core sustainability issues; and initiatives that support safe, healthy and fair working conditions. Focusing on social and environmental responsibility within our supply chain enables us to protect workers; promote circularity; proactively identify, assess and mitigate risks to our business; and drive responsible manufacturing practices.

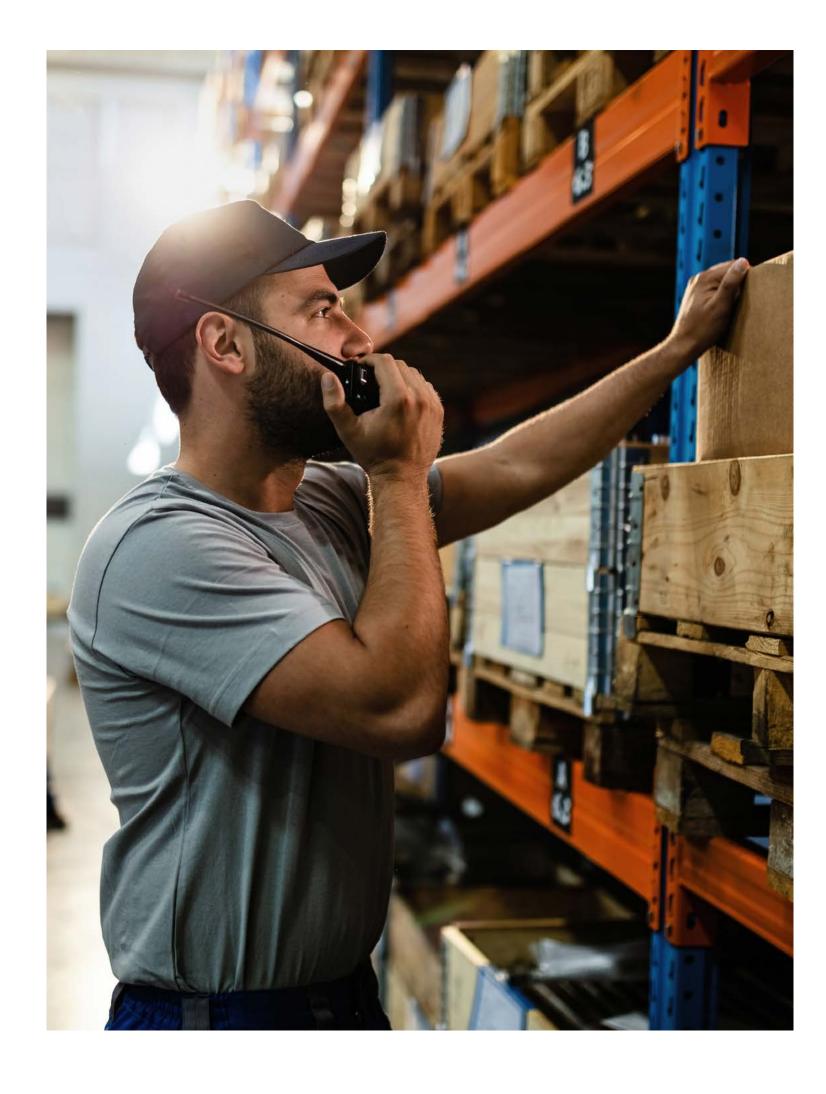


Our approach begins with establishing clear expectations with our suppliers through our standards and policies. The Responsible Business Alliance (RBA) Code of Conduct, Meta's Anti-Slavery and Human Trafficking Statement and Meta's Conflict Minerals Policy

form the basis of our RSC program. We work closely with our suppliers to help them build internal capabilities to meet our requirements and improve their overall sustainability performance.



Responsible supply chain



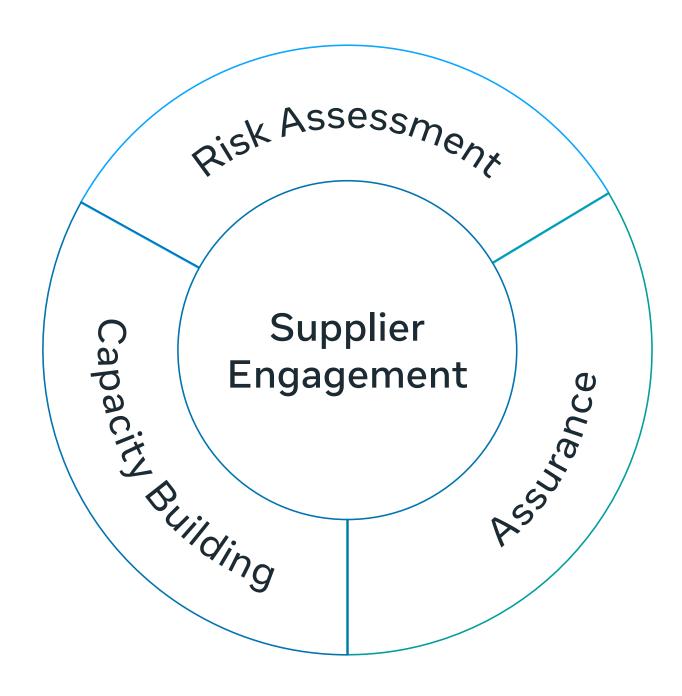
Developing our suppliers

Our approach to supplier development is based on a continuous improvement model, working closely with suppliers to help them understand, prevent and mitigate risks in and to their business.

We use a risk-based methodology to regularly assess suppliers' social and environmental risks, then engage with them to build their capabilities to meet Meta's expectations. We assess supplier conformance to the RBA Code of Conduct and other Meta standards via independent third-party audits, supplier

questionnaires and other types of on-site assessments. For any identified areas of concern, we work with suppliers to understand root causes, develop corrective action plans, and assess closure.

Throughout this process,
ongoing supplier dialogue and
engagement are key. We engage
with suppliers in an array of
programs that aim to improve
working conditions, support
worker well-being, maximize
resource efficiency, reduce
environmental risks, and lead to
sustained progress.



Data Index

Responsible supply chain

Improving worker well-being

We are committed to improving the working conditions and sustained performance of Meta's hardware supply chain by keeping workers at the core of what we do.

Through our Worker Well-being program, we use surveying tools, worker engagement, and training and capability building to understand workers' needs and perspectives. We engage directly with workers through mobile surveys that provide insights into key worker sentiment.

Building on risk assessment work conducted with suppliers, in 2022 we also worked with a third-party consultant to evaluate how gender is integrated into our core RSC standards and tools and developed programming and engagement opportunities with partners to bring more focus to this issue. Making our RSC program more gender-responsive aligns with the United Nations Guiding Principles on Business and Human Rights → and the Organisation for Economic Co-operation and Development (OECD) Guidelines for Multinational Enterprises ↗. By investing in programs centered on equity and justice, we support a more resilient supply chain for all.

Meta provides a variety of training programs for our suppliers as a way to directly support them and further enable the business. For example, in 2022, we enlisted the help of third-party experts to design and launch the Building a Respectful Workplace training program. This program builds suppliers' and workers' understanding of harassment and discrimination in the workplace, including gender-based vulnerabilities, and supports their capacity to identify and address these issues.

Building a Respectful Workplace engages all functions and levels of employees and cultivates employee empowerment by creating peer coaches who share learnings with their coworkers.

Ensuring health & safety

Effectively protecting
workers and the environment
in our supply chain means
understanding and focusing
on ways to mitigate the
environmental, health and safety
(EHS) risks associated with
the activities our supply chain
partners undertake on our behalf.

In 2022, we conducted an indepth questionnaire and onsite EHS risk assessment for selected supplier sites based on a prioritization exercise. This led to the development of practical toolkits to help suppliers and Meta's sourcing managers implement best practices for managing the most common EHS issues.

We are focused on safe process chemical management by leveraging the RBA Industry

Focus Process Chemicals

Policy 7. Working with key data center hardware and Reality

Labs supplier sites, we assessed

policies and procedures in place to protect worker safety.
Surveying tools, desktop reviews and in-person facility-level assessments also support our suppliers in developing corrective actions and improvement plans.



Responsible supply chain

Responsible sourcing

Meta recognizes that the extraction of raw materials — including cassiterite, columbite-tantelite (coltan), wolframite and gold, and their derivatives tin, tantalum and tungsten (known as "3TG" or "conflict minerals") — may contribute to armed conflict and human rights abuses in certain high-risk contexts. We are committed to the responsible sourcing of minerals used in our consumer hardware products and expect our suppliers to share this commitment. Meta's Conflict Minerals Policy → guides our responsible minerals sourcing practices and expectations for our suppliers.



Addressing forced labor risks

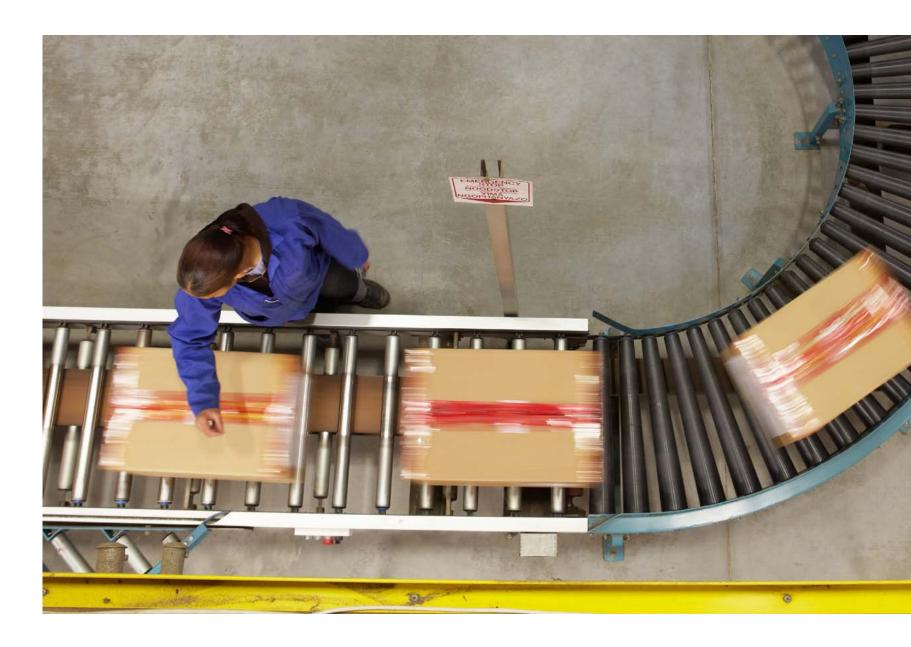
Meta is opposed to all forms of human trafficking, slavery, servitude, forced labor and all other trafficking-related activities as noted in our 2023 Anti-Slavery and Human Trafficking Statement

7. Our statement includes information on preventing forced labor risks in our supply chain, including risk assessment and due diligence processes. In 2022, we launched a new course for Meta employees to increase internal awareness of Meta's commitment, policies and practices to prevent forced labor risks in our business operations and supply chains.

We also partner with external organizations to support holistic approaches to address the root causes of forced labor in global supply chains.

Collaborating for supply chain excellence

partners to develop solutions
helps us advance our own
responsible supply chain
work and amplify positive
impact beyond our industry.
Our key responsible supply
chain partnerships include
the Responsible Business
Alliance, the Responsible Labor
Initiative, the Responsible
Minerals Initiative, and the
Open Compute Project.



Creating healthy, sustainable workplaces

While the way we look at the traditional office culture has changed drastically, our commitment to providing workplaces that are healthy, safe and sustainable will not change. We focus equally on the people inside our workplaces as the natural environment around them.

Our approach to workplace sustainability is driven by climate action as well as promoting the health and wellbeing of our employees.

Our workplace sustainability program is focused on the following priorities:





Climate

Circularity





Biodiversity

Commitment

We are targeting a 50% reduction in workplace carbon emissions in 2030 (from a 2019 baseline), which we aim to achieve through the following reduction goals:

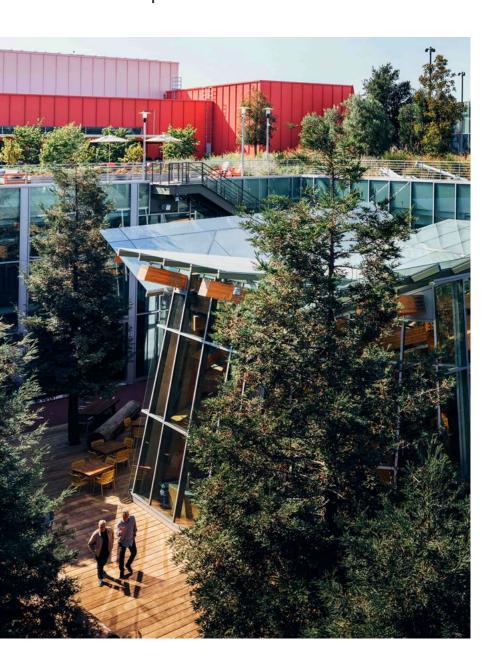
- **32% reduction** in office energy consumption.
- **50% reduction** in waste generated in office operations.
- **35% reduction** in employee commute emissions.
- 40% reduction in embodied carbon of building materials and furniture.
- **54% reduction** in carbon intensity of culinary offering.



Data Index

Creating healthy, sustainable workplaces

We target third-party
sustainability certifications
across our global office portfolio
to ensure high-performance
design and operations targeted
at resource efficiency and
occupant health.



Meta has offices certified by the following third-party certification programs:

LEED rating system 7
 provides a framework for
 healthy, efficient and cost-saving green buildings. All
 Meta offices over 100,000
 square feet are required to be
 LEED Gold or higher.

62 Meta office buildings are LEED Certified (as of December 31, 2022).

9 Meta offices received LEED Certifications in 2022.



 Fitwel provides a framework for healthy buildings focused on sustainable sites, exercise, healthy foods, health programming, safety and emergency preparedness.

10 Meta office buildings are Fitwel Certified (as of December 31, 2022).



WELL Health-Safety Rating
 provides a framework for
 facility operations and
 management focused on
 preparing real estate assets
 for critical health-safety
 issues.

177 Meta offices were WELL Health-Safety Rated in 2022 (certification valid January 2022-January 2023). GreenStar is an Australian green building rating system that provides a framework for reducing climate change, enhancing health and quality of life, protecting biodiversity and fostering resilience.

Meta's Sydney office is GreenStar Certified (as of December 31, 2022). ISO 50001 standard
 zpecifies requirements for establishing, implementing, maintaining and improving an

energy management system.

4 Meta offices are ISO 50001 Certified (as of December 31, 2022).

Setting the standard for data center sustainability



Meta's data centers are part of the global infrastructure that brings our current technologies to life and supports immersive experiences in the metaverse.

And, supported by 100% renewable energy, they are among the most advanced and efficient in the world. Our data centers generate the highest percentage of our energy use and

GHG emissions. Also responsible for the highest percentage of Meta water use, operational data centers rely on water for evaporative cooling during summers and humidification during winters.

We have a strong track record incorporating design and construction strategies that

conserve energy and water, reduce waste, treat our land and communities with respect, responsibly source materials, and provide healthy workspaces for our people. Together, this comprehensive approach has led to 100% of our operational data center buildings earning, at minimum, LEED Gold certification.

As we look to the future, we have streamlined our approach to data centers to a new architecture that we believe will be more cost-efficient and more flexible. This pivot in design will set us up to support both artificial intelligence (AI) and non-AI workloads at our data centers.

Meta's top 10 sustainability priorities for data centers

- 1. Push efficiency first.

 Aim to drive energy
 and water efficiencies
 with advanced IT and
 mechanical, electrical and
 plumbing design.
- 2. Use renewable energy.

 Continue supporting our data centers with 100% renewable energy.
- 3. Be a good neighbor.

 Minimize our impact to
 the land, air, water, noise
 and atmosphere, and
 prioritize sustainability
 strategies most
 important to a region's
 unique character.

- 4. Eliminate waste. Use less stuff to begin with and promote a zero-waste culture by reusing and recycling as much as we can.
- 5. Buy better products.

 Improve visibility into our construction materials supply chain and source building products that have a low GHG footprint and safe chemistry.
- 6. Boost wellness. Create healthy, delightful workspaces that foster employee wellness and productivity.

- 7. Support electric vehicles.

 Provide infrastructure to
 encourage carbon-free
 transportation.
- 8. Measure and report
 our impact. Track and
 report our environmental
 impacts linked to data
 center construction and
 operations.
- 9. Drive innovation.
 Experiment with new technologies and build social value by sharing our successes with the world.
- **10. Focus on impact.** Stay true to these principles.

Setting the standard for data center sustainability

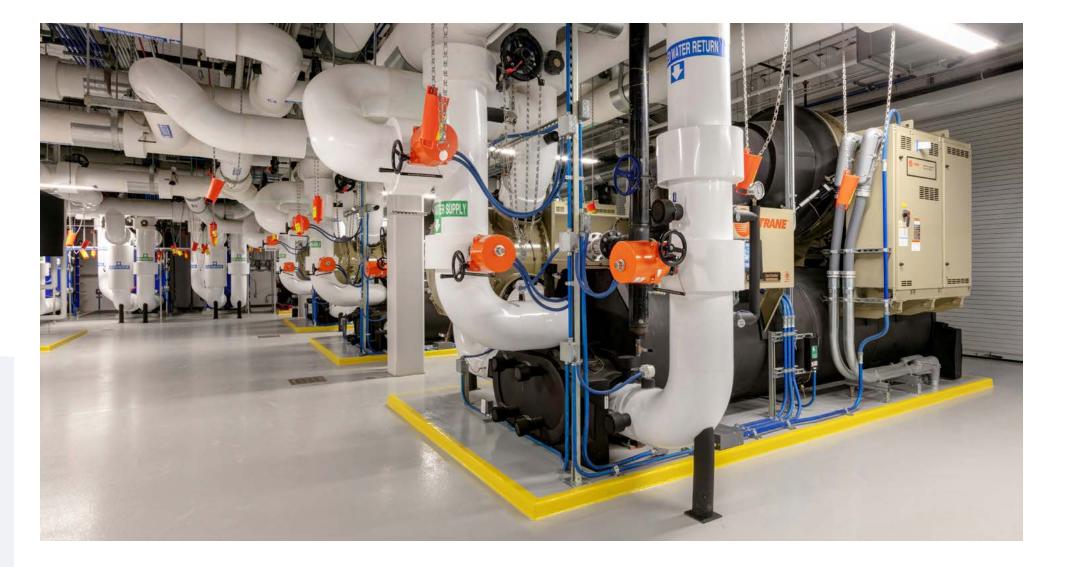
In our data centers, we're focused on reducing the embodied carbon, defined as the CO₂e generated by the manufacturing and transporting of building materials and the construction process. To support efforts to scale the use of sustainable construction materials such as low-carbon concrete, Meta became a sponsoring member of the American Concrete Institute's Center of Excellence for Carbon Neutral Concrete in 2022. This partnership will enable us to vet

low-carbon concrete options
based on standardized criteria
and help us integrate these
options into our data center
design and construction program.

Data center water efficiency

Water is a key resource used in operating our data centers and is used primarily for evaporative cooling during summers and humidification during winters. Relative humidity, temperature and airflow are three key factors to maintaining an ideal operating environment for servers.

In 2022, we tested increasing our data hall temperature from 85°F to 90°F at select pilot campuses. The preliminary results indicate a reduction of over 50% of our water use over the summer season, with <u>little to no impact </u> to our data center operations.



To date, we have certified 34
LEED Gold or better data center
buildings, totaling over 22
million square feet. We are also
a platinum member of the U.S.
Green Building Council. In 2022,
six of our new construction data
center buildings, in the following
locations, were awarded LEED
Gold certification, totaling over 5
million square feet:

- One in Altoona, Iowa.
- One in Papillion, Nebraska.
- · One in North Huntsville, Alabama.
- One in Eagle Mountain, Utah.
- Two in Newton County, Georgia.

Setting the standard for data center sustainability

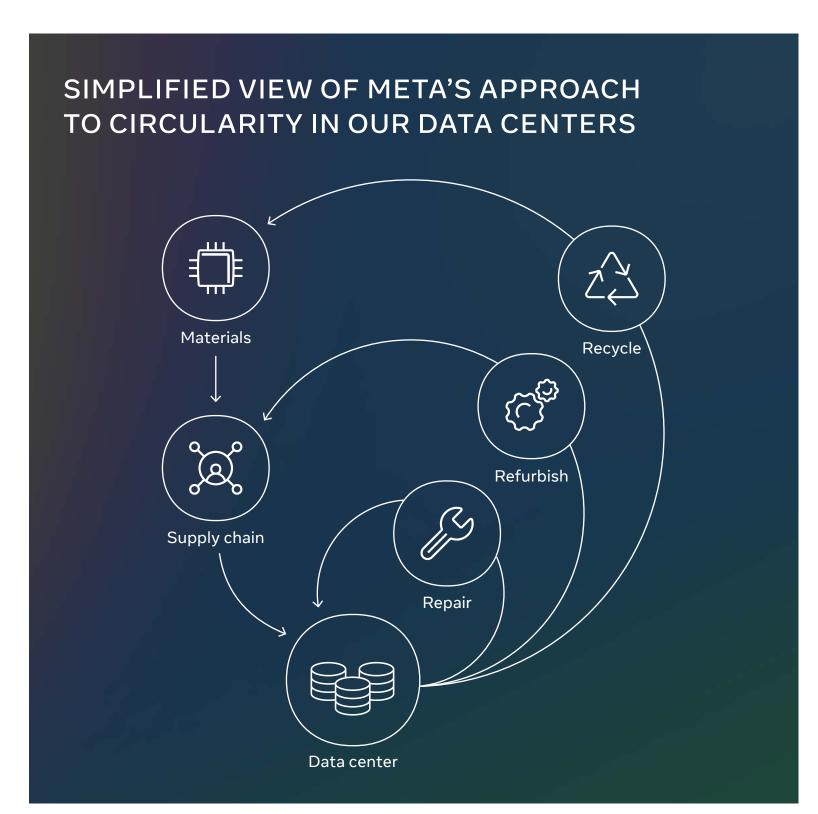
Integrating circularity

We believe evolving from linear to circular production and consumption is critical for a better reality, which is why we have integrated circularity into our net zero emission strategy.

Limiting the use of new materials helps us prevent waste and avoids upstream emissions.

Beyond our operations, we see it as our responsibility to use our consumer hardware products, family of apps and knowledge to catalyze circularity in our industry and beyond.

To enable greater circularity
within our supply chain, we
focus on eliminating the use
of hazardous substances and
prioritizing the responsible
takeback, reuse, and recycling
of electronic equipment. Our
Materials of Concern Standard
and Electronics Reuse and
Recycling Standard support
safe and healthy environments
for anyone who manufactures,
uses or recycles Meta hardware.



In our data centers, we prioritize the use of post-consumer recycled (PCR) plastics and recycled metal in our hardware and system design to enable a more circular supply chain, and thus, reduce the embedded carbon in our hardware.

Avoiding emissions in our upstream supply chain means using less, where possible. To achieve this, we are investing in systems that will extend the life of our hardware and reusing as many components as possible in our data center production.

Since 2021, we have been validating the reliability and quality of reused components through a rigorous evaluation

process and have landed hundreds of new racks containing reused components within our fleet. The quality of the reused components continues to show excellent results, with some of the oldest racks with the reused components already at two years of age and continuing to perform well under real-world production workloads. We expect to closely monitor the hardware health for all the racks and iterate on our practices moving forward. We have also extended the estimated average useful life of a majority of our servers from four to five years.

Setting the standard for data center sustainability



Understanding the life cycle impact of data center components

We cannot reduce what we do not measure. In 2022, we conducted Life Cycle Assessments (LCAs) on several data center hardware products and developed internal visualization tools to identify the highest carbon emitting components of each product.

At the data center fleet level, the Sustainability, Physical Modeling, and Meta AI Systems and Machine Learning teams have partnered on a large-scale project to develop and scale a dataset containing the best available

embodied carbon estimates at the scale of the hundreds of millions of components in our data center hardware.

In 2022, the teams reached more than 90% coverage, meaning there is primary data, an LCA, or a modeled value assigned to each asset. This dataset lays the foundation for value chain carbon reductions by helping us use less or choose low-carbon options, engage suppliers, and drive value chain and system-level interventions in line with Meta's net zero strategy.

Understanding risks and opportunities



Building climate resilience

We conduct ongoing climaterelated risk and opportunity
assessments to help us take
the right measures to build
our company's and our world's
resilience to changes that are
already happening.

Many of our emissions, energy, water and biodiversity initiatives promote community climate resilience. And by sharing the insights we gain with our local partners — and vice versa — we can further increase opportunities for communities to build resilience for themselves.

Building community is at the heart of accelerating resilience and adapting to climate change.

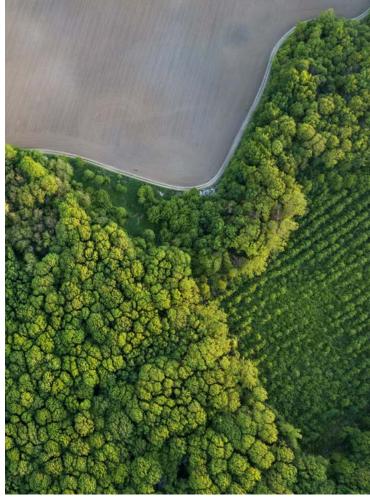
Meta technologies reach 3 billion people globally, including some of the communities most on the frontlines of climate change.

Meta's commitment to action on climate adaptation and resilience includes:

- Operations. We integrate
 climate risk and resilience
 assessment findings into key
 business decisions such as site
 selection and infrastructure
 development and partner with
 local communities to enhance
 climate resilience.
- People. We also integrate
 climate risk and resilience into
 our employee preparedness
 programs to provide proactive
 actions employees and their
 households can take to be
 more prepared for climate related, natural and other
 hazards we may face.
- Supply chain. We work with our supply chain partners to ensure they have the tools to identify and manage the climate risks they may face. Assessing resilience to climate change is crucial to guiding our efforts to ensure the people and communities within our supply chain are prepared for climate risks.
- Apps and services. We
 worked with partners to
 help launch our first Climate
 Science Literacy Initiative. Its
 goal is to pre-bunk climate
 misinformation by running ads
 across our apps and services
 that feature five of the most
 common techniques used to
 misrepresent climate change.
- Partnerships. Meta amplified its climate resilience initiatives at COP27 → by launching the PREPARE Call to
 Action on Adaptation → in partnership with the U.S. State Department and U.S. Agency for International Development alongside Microsoft, Google, Mastercard and others. We also supported the Resilience Hub → and organized a panel about the role of technology → in building climate resilience.

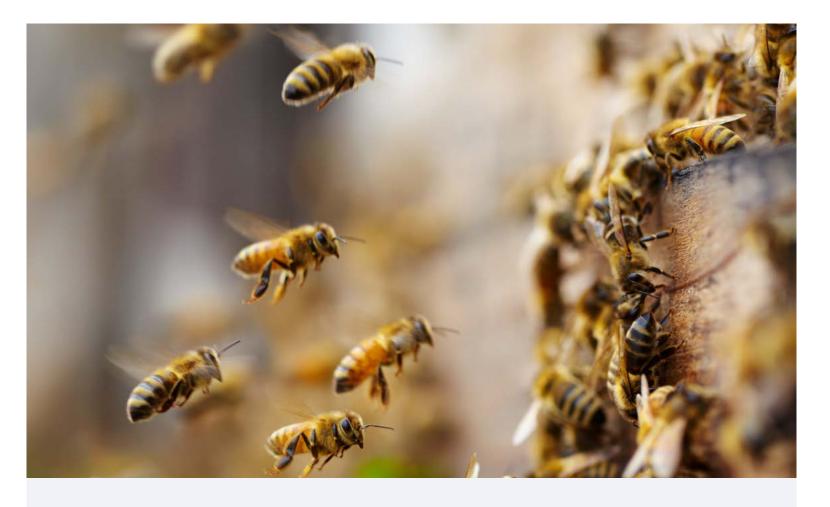
Respecting biodiversity





Rapid climate change threatens
the rich variety of living
organisms on our planet. The
loss of biodiversity has critical
implications for humanity, from
the collapse of food chains and
health systems to the disruption
of entire supply chains.

We promote biodiverse habitats in all phases of data center development through minimizing our footprint, consolidating construction to preserve sensitive or ecologically unique habitats, and intentionally restoring and enhancing native habitats in landscape design. To date, we have preserved and planned over 3,400 acres of native habitat across 20 North American data centers — representing 58% of our existing data center fleet footprint. In addition to habitat benefits, these landscapes provide inexpensive carbon sink, soil stabilization, as well as waterefficient and climate-resilient solutions over traditional sod or ornamental landscape options.



A 40-acre native pollinator habitat restoration project at our Huntsville, Alabama, data center got underway in early 2023. This project includes a native genome rare plant nursery, in which we will grow our own seeds to expand the restoration.

Respecting biodiversity

Protecting wildlife

Meta's policies help prevent illegal wildlife trafficking from happening on our platforms. Our Community Standards → strictly prohibit content depicting, admitting or promoting criminal acts including poaching or selling endangered species or their parts.

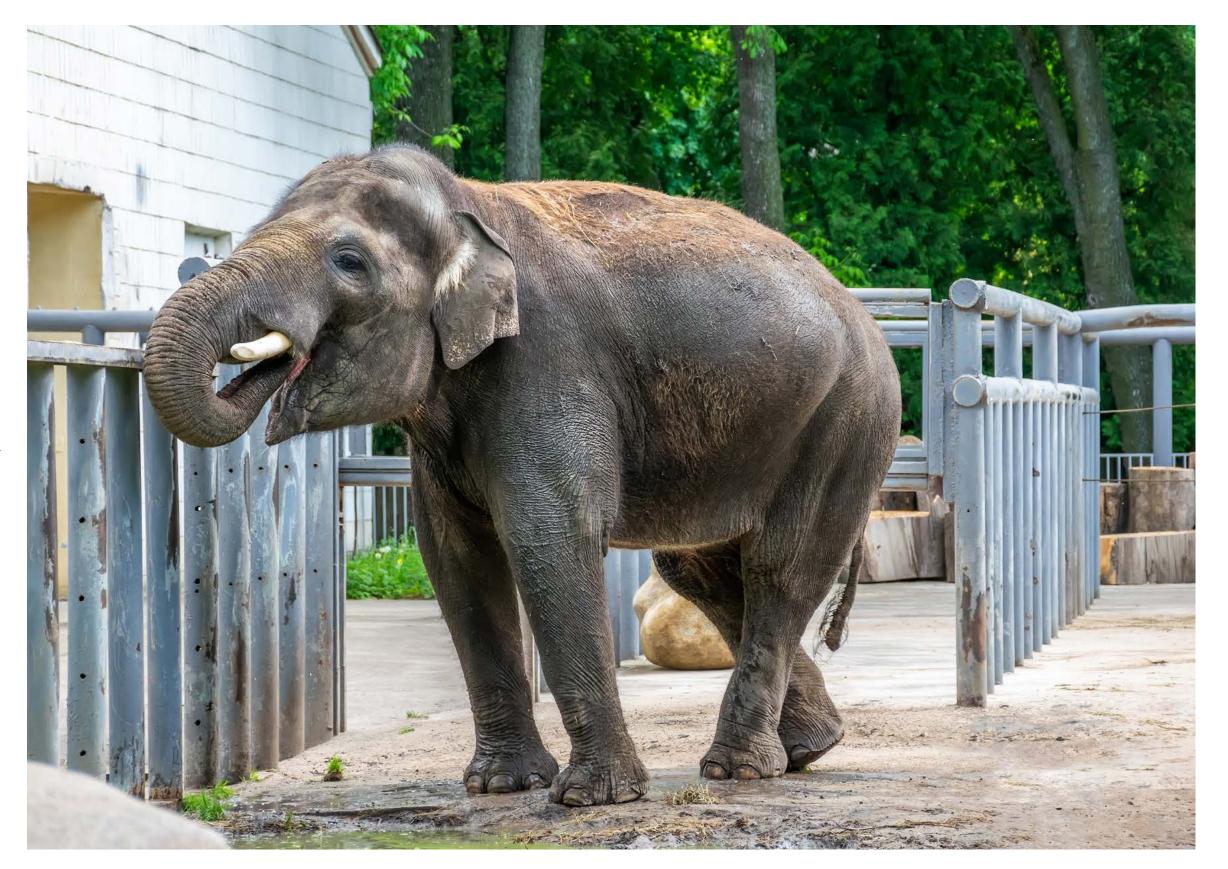
When a user searches a hashtag associated with harmful behavior to animals, such as #tigerselfie or #elephantivory, an advisory will warn them about these dangers and provide an opportunity to learn more. We will sometimes permanently block specific hashtags on Instagram known to be related to endangered species to prevent users from searching for or creating them on the platform.

Meta's Commerce Policies
prohibit the sale of live animals or animal parts. We rely on a combination of community reports, technology and human review to remove violating content. These policies align with the Convention on International
Trade in Endangered Species (CITES)
Appendix I.

Although we have made significant progress in recent years, this is a rapidly evolving space, with traders constantly adapting and obfuscating their tactics to circumvent our policies and fool detection systems.

Cross-sector collaboration and industry partnerships are crucial in our efforts to combat illegal wildlife sales online. Since 2018, we have belonged to the Coalition to End Wildlife Trafficking

Online →, working with external organizations to help scale our impact in this area, including the World Wildlife Fund (WWF) →, the International Fund for Animal Welfare (IFAW) →, TRAFFIC →, and other leading businesses.



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Leadership About Vision How We Operate

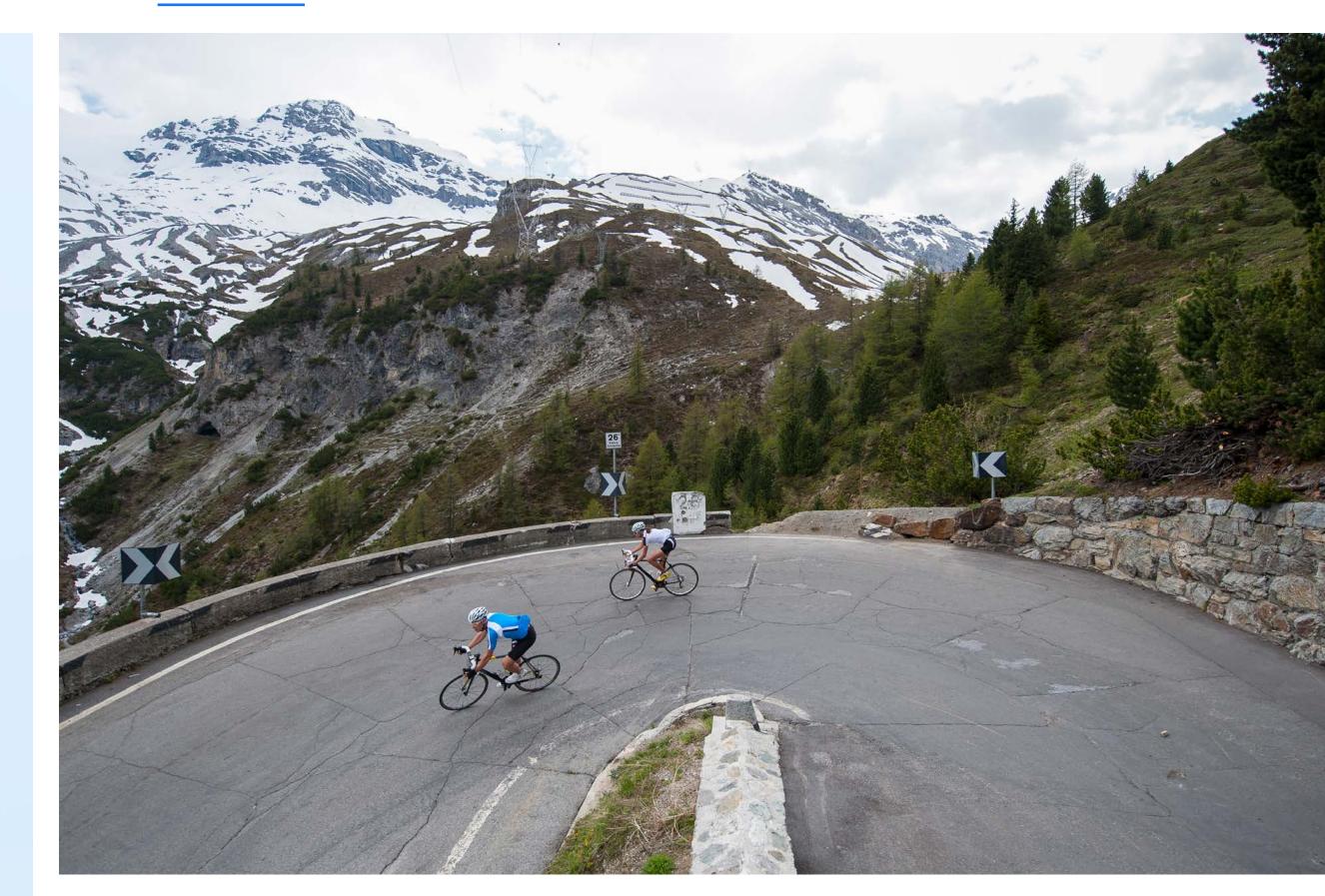
How We Collaborate

Looking Ahead

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What we create

Meta was born to innovate, ask questions and build products that enable people to change and grow.



We create solutions that connect people not only with each other but also with resources, information, tools and opportunities.

What We Create

Product circularity



Minimizing the environmental impact of consumer hardware

We leverage the capabilities of our platforms to drive climate action through our core products. We create solutions that connect people not only with each other but also with resources, information, tools and opportunities.

We have operationalized our product sustainability targets by embedding sustainability requirements into the product development process for all new devices and accessories. These requirements support and ensure that we are designing devices that take sustainability considerations into account, such as being easy to repair

and recycle; using sustainable materials; having extended lifespans; and using low-carbon manufacturing and transportation methods. As we develop new technologies that will help people connect and explore in the metaverse, we are focused on approaches that prioritize emissions reductions through the concepts of circularity.

In 2022, we advanced the sustainability of our products by:

Transitioning segments
 of our logistics network
 to lower-carbon modes of
 transit, such as ocean freight,
 leading to over 47,000 metric
 tons of carbon emissions
 reduction compared to the
 transportation impact of total
 Quest 2 units shipped in 2021.

Ocean freight produces
about 97% fewer carbon
emissions → transporting the
same weight and distance
traveled than air freight
does. Going forward, we aim
to increase ocean freight
volumes even further.

- Increasing the use of sustainable materials in our products and packaging.
- Extending the life of products, parts and equipment through refurbishment, reuse and our extended warranty program offering.

A refurbished Quest 2 is estimated to produce <5% of the GHG emissions of manufacturing, packaging and shipping versus a new Meta Quest 2.

 Prioritizing the use of PCR, bio-based plastics, elastomers and recycled metal in our products. Completing LCAs for our products and accessories

 including Meta Quest
 Meta Quest Pro, and
 Ray-Ban Stories — to find opportunities for improvement so that we can quantify and reduce the carbon footprint of the next generation of these products even further.

Elevating accurate information

Misinformation thrives in the absence of good information. We focus on slowing the spread of misinformation by amplifying reliable content and directing users to authoritative information.

Critical challenges like climate change lead to complex

discussions across our apps.

Much of that expression and debate is essential to building consensus and finding solutions to climate change. That's why we take a comprehensive approach to climate-related content → that educates and informs people with accurate information while addressing misinformation.

Our platforms extend access to information and empower users to take action through tools like the Climate Info Finder Tool and the Climate Science Center. We have fully expanded the Climate Science Center to all countries, attracting more than 18 million followers.

How we fight climate misinformation

Misinformation makes up a small amount of the overall climate-related content on our apps, and climate change misinformation makes up a very low percentage of total misinformation. Still, that misinformation can spike when the conversation about climate change is elevated, such as during extreme weather events.

We take any misinformation on our platforms seriously, which is why we partner with our industry-leading network of more than 90 independent fact-checking organizations to review and rate climate-related content in more than 60 languages.

Our fact-checking partners review and rate a wide range of climate-related claims, including false information that outside experts say undermines the existence or impacts of climate change, misrepresents scientific data and mischaracterizes mitigation and adaptation efforts.

When fact-checkers rate content as false, we add a warning label and reduce the visibility of that content so fewer people see it.

We don't recommend content or approve ads that have been rated false by one of our fact-checking partners, and we <u>take action</u> against Pages, Groups, accounts and domains that repeatedly share false claims about climate science.

Elevating the facts about climate change

The Climate Science Center → is a dedicated space on Facebook for factual resources from the world's leading climate organizations and actionable steps people can take in their everyday lives to combat climate change. In 2022, we:

Fully expanded the Climate
 Science Center globally,
 attracting more than 18
 million followers from 243
 countries and territories.

- Launched the <u>Climate</u>
 <u>Info Finder</u> tool enables
 people to search for trusted
 information about climate
 change and link to this
 content directly in comment
 threads
- Partnered with Monash
 Climate Change
 Communication Research
 Hub →, Cambridge Social
 Decision-Making Laboratory →
 and Yale Program on Climate
 Change Communication →
 on our new Climate Science
 Literacy Initiative →.



Elevating accurate information

Recognizing the recipients of our climate misinformation grant

In partnership with the International Fact-Checking Network (IFCN) and an independent six-member judging panel of climate domain experts, we launched the \$1 million Climate Misinformation Grant → to fund partnerships and proposals from fact-checkers, climate organizations and solution providers working to combat false and misleading information about climate change. We received applications from around the world. Of the 30 global semifinalists, representing 71 entities, nine grantees were selected in 2022:

Science Feedback (France)

About

The organization will create a portal where fact-checkers are able to submit claims, content or topics for expert verification and input.

Fact Crescendo (India)

In partnership with the Water,
Climate and Hazard (WATCH)
Division of Aaranyak, Fact
Crescendo will debunk myths
and translate explanations of
environmental misinformation
into local languages.

Code for Africa/PesaCheck (Kenya)

Driven by a team of dedicated
Wikipedians-in-Residence,
who will be embedded with
partner newsrooms, PesaCheck

will kickstart a new African
Wikipedia Task Force on Climate
Disinformation to debunk climate
denialism and delayism.

Demagog Association (Poland)

In partnership with Crazy
Nauka, Defence24 sp. z o. o. and
Energetyka24.com, Demagog
Association's project features a
chatbot created by experts and
journalists working to address
climate misinformation.

Factual.ro (Romania)

In collaboration with
InfoClima.ro and REPER21,
Factual.ro is launching a
framework that brings the
resources, experience and
expertise of an IFCN signatory
and five different environmental
organizations together.

Verificat (Spain)

Fact-checkers Verificat, solution providers Kinzen, and experts from the C3 Centre for Climate Change at Rovira and Virgili University will join forces to increase the capacity to understand and expose climate misinformation in podcasting.

elDetector de Univision Noticias (United States)

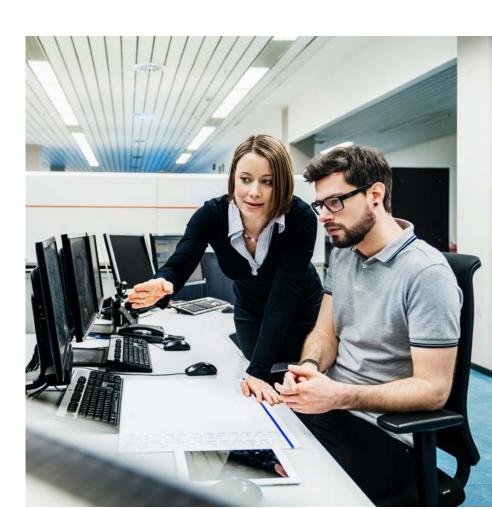
In partnership with López-Wagner Strategies, Univision Noticias' elDetector will combat misinformation about climate change for Spanish-language speaking audiences.

PolitiFact (United States)

In partnership with MediaWise and Climate Nexus, PolitiFact will create an information loop that starts with Climate Nexus to surface possible misinformation.

USA Today (United States)

USA Today is collaborating with the Society Library to enhance the work of fact-checkers by introducing the companion discipline of context-checking as part of a dedicated, open-source training program.



Helping small businesses grow sustainably



Meta provides many resources
to help small and medium-sized
business (SMB) owners build
customer relationships and reach
new audiences on our platforms.

Meta Boost Guide to Green

helps these businesses grow
sustainably.

The Guide expanded further across Europe in 2022. In collaboration with the SME

Climate Hub →, Legambiente →
and Giovani Imprenditori

Confcommercio →, the Guide to
Green helps SMBs take climate
action and reduce their carbon
footprint, with a particular
focus on restaurants, hotels
and food producers.

SMBs make up 99.7% of all EU enterprises 7, and 66% of total EU employment. Although SMBs drive economic growth and development, they also have a high environmental footprint, accounting for up to 70% of EU industrial pollution 7.

Given that 77% of EMEA consumers consider how sustainable a brand is before trying it, embracing the green transition is an important step for the future of small businesses.

From on-demand training to tips for sharing their unique sustainability story, Guide to Green is designed to help SMBs drive climate change while growing their business.

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Helping small businesses grow sustainably

Elevating climate creators

Creators are at the forefront of a movement that allows more individuals to make an impact with their content. More and more, people create and consume culture through the individual creators they follow, including their favorite influencers, artists, video creators, public figures, journalists and athletes.

Meta is uniquely positioned to support the growing creator community by helping all types of creators tell their stories, build a business, and earn a living. Our investments empower creators with the cutting-edge tools, education and resources needed to build creative and financial success — now and in the future.

Meta Sustainability has worked with climate creators since 2021, beginning with the Climate Talks podcast, hosted by climate advocate Sophia Li. In 2022, Meta hosted the first-ever Climate Talks Salon for climate creators in New York City.





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How we collaborate

Partnerships enable us to scale positive impact.



It will take everyone working
together to make the systemslevel changes required for a
better reality: world-class experts
in sustainability and social
issues, climate leaders, academic

researchers, local utilities, community nonprofits, suppliers and every one of our thousands of employees.

Employee engagement

The success of our sustainability program depends on having our Metamate voices at the table. We invite all employees to join our year-round efforts by participating in executive Q&A sessions, educational training, local Green@ chapters or climate-focused hackathons.







Enabling employees to track their climate action

In 2022, Meta piloted a partnership with <u>Climate Club </u>to enable Scope 3 GHG emissions reductions program with the support of employee advocates.

In January 2023, we launched an app to track office food and waste reductions to a group of 500 employees. This program helped our employees understand the collective impact individual actions can have.

Carbon removal partners for impact



In 2022, we announced <u>a joint</u>

\$925 million commitment
alongside Stripe, Shopify,

McKinsey Sustainability, and

Alphabet to accelerate the

development of carbon removal

technologies by guaranteeing

future demand.

We are engaged with the

Business Alliance to Scale

Climate Solutions →, which

provides a platform for us to

meet with other businesses and

climate experts and act together

to improve climate solutions.

AMONG THE WAYS WE ARE DRIVING CARBON REMOVAL IS THROUGH COLLABORATION WITH LIKE-MINDED COMPANIES TO CREATE RAPID CHANGE AT SCALE.

Indian Carbon Coalition → and
Meta are joining together in
a pledge → to support land
restoration and promote a model
of carbon projects that centers
on the leadership, traditional
ecological knowledge, and
vision of Indigenous Peoples for
themselves and the land they
care for. Such an approach uses
these elements as the compass
to develop projects that not

only protect and sequester carbon, reduce climate impacts, and increase climate resilience but also honor and center the relationship between Indigenous communities and their land.



Photo courtesy of TIST

Collective action to reach water positive in 2030

IN 2022, OUR WATER RESTORATION PROJECTS
RETURNED 621 MILLION GALLONS OF WATER TO
HIGH AND MEDIUM WATER STRESSED REGIONS.



Minimizing water use, being transparent with our water data, and restoring water in high waterstressed regions are key pillars of our water stewardship program.

We are committed to becoming water positive by 2030, when we will restore more water to the environment than we consume for our global operations. To achieve this goal, Meta will restore 200% of the water we consume in high water-stressed areas, and 100% of the water we consume in medium water-stressed areas. Our water restoration projects in water-stressed regions always have a hydrological connection to

2022 wa	2022 water data (in cubic meters)										
	2017	2018	2019	2020	2021	2022					
Water Withdrawal	1,609,000	2,367,000	3,430,000	3,726,000	5,042,564	4,893,023					
Water Consumption	838,000	1,279,000	1,971,000	2,202,000	2,568,849	2,638,188					
Water Restoration	-	132,000	145,000	2,250,000	2,335,672	2,351,562					

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in our operations and are
verified by independent thirdparty experts, applying industry
standard methodologies. Working
with local organizations and
utilities, we invest in water
restoration projects in waterstressed regions that also provide
co-benefits such as supporting
local water supply or restoring
local habitats and wildlife.

Since 2017, we have funded or supported more than 25 water restoration projects in eight watersheds where we operate.

Once all projects are online and fully implemented, they will restore 1.9 billion gallons of water annually. In 2022, the operational restoration projects returned 621 million gallons (2,351,562 cubic meters) of water to high and medium water stressed regions.

Collective action to reach water positive in 2030

Wildcat Marsh

Wetlands like Wildcat Marsh southeast of Dallas are home to a variety of wildlife and provide many benefits such as erosion control, flood control and improved water quality. For this project, Meta is supporting Ducks Unlimited and the Texas Parks and Wildlife Department to create a new wetland spanning 63 acres within the Richland Creek Wildlife Management Area. This will improve fish and wildlife habitat as well as improve the quality of water being released back to the Trinity River. The Wildcat Marsh project is expected to restore 12.9 million gallons of water per year.

Jicarilla Apache Nation

The Jicarilla Apache Nation (the Nation), located in northcentral New Mexico, has more than 45,000 acre-feet of settled water rights in the San Juan River basin that are used for cultural practices, domestic supply, environmental uses, and economic development. For the last several decades, the Nation leased water to coal fired power plants that are now facing closure. This transition presented a new opportunity for the Nation, the New Mexico Interstate Stream Commission, and The Nature Conservancy to work together.

Through Bonneville
Environmental Foundation,
Meta contributed funding
toward an historic Water Sharing
Agreement that allows the
New Mexico Interstate Stream
Commission to lease up to
20,000-acre feet of water per
year (for 10 years) from the
Nation to benefit threatened and
endangered fish and increase
water security for New Mexico.

Colorado River Indian Tribes Drip Irrigation Project

Scarce water and increasing federal cutbacks fuel the need to optimize water efficiency in Arizona, where agriculture is critical to the economy of the Colorado River Indian Tribes (CRIT). We are partnering with CRIT and N-Drip Technology to replace flood irrigation with drip irrigation that reduces water usage, evaporation and runoff by providing water directly to the soil slowly. A pilot project resulted in water savings from 30% to 52% and is predicted to restore 96.5 million gallons of water per year.



Collective action

In 2022, Meta joined the <u>UN CEO</u>

<u>Water Mandate </u>, a UN Global

Compact initiative that mobilizes

business leaders on water,

sanitation, and UN SDG 6, Clean

Water & Sanitation, as well as

the Water Resilience Coalition, a cross-sector initiative to raise the ambition of corporate water stewardship and foster collective impact in priority basins.

Driving climate policy



Climate action is critical to achieving a sustainable economy and protecting our planet. We are working internally to decarbonize our operations and supply chain and reduce our overall environmental footprint.

Meta also acknowledges that comprehensive and well-designed climate and clean energy policy is central to transitioning to a future that avoids the worst impacts of climate change. We actively work with policy makers, partner organizations, trade groups and industry peers to advance climate and clean energy policies.

This includes membership in the Clean Energy Buyers Alliance (CEBA), Advanced Energy United (AEU), American Council on Renewable Energy (ACORE), Center for Climate and Energy Solutions (C2ES), European Climate Pact, and Asia Clean Energy Coalition (ACEC). Our memberships should not be

viewed as an endorsement of every policy position that individual organizations or their leadership take.

We believe that for Meta to reach our own net zero emissions goal in 2030, we need governments around the world to move toward a net zero economy. Global cooperation at COP is critical, which is why we have prioritized our engagement on the global stage, and Meta is proud of its longstanding relationship with the United Nations Framework Convention on Climate Change (UNFCCC).

Sharing climate insights

In addition to elevating climate experts' voices across our platform, we also invest in proprietary research that helps inform our approach to amplifying climate content. In 2022, we completed our biggest ever global survey analyzing public views toward climate change in partnership with researchers at the Yale Program on Climate Change Communication 7.

The survey asked more than 100,000 Facebook users from nearly 200 countries and territories about their knowledge of — and attitudes and behavior toward — climate change issues, and what should be done to address them.

The survey found:

- The majority of people in nearly all countries said that they were "somewhat worried" or "very worried" about climate change.
- Most people say their country should reduce pollution causing climate change, either on their own or if other countries also do so. However, people have different views on who is primarily responsible for reducing pollution majorities in 43 countries said their government is responsible, 42 countries said individual people, and 25 said businesses.
- People everywhere think climate change should be a high priority for their government. Majorities in most countries in North and South America say it should be a "very high" priority.
- A majority in almost all areas surveyed think action to reduce climate change will either improve or have no negative impact on the economy.
- People support using more renewable energy and less fossil fuels. About 9 in 10 people in Hungary, Portugal and Spain think their country should use somewhat or much more renewable energy.

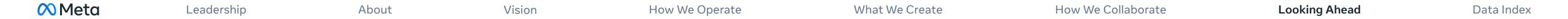
We hope the findings will be used to inform policy decisions and priorities for governments, especially in many countries where surveys of this sort have not taken place before.

The findings should also be valuable for researchers around the world, as well as a resource to inform public information or awareness raising campaigns by activists and NGOs, and help journalists with nationally relevant data.

Already, the Social Progress

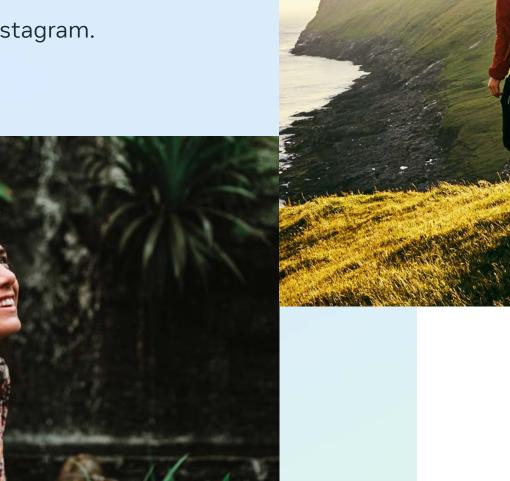
Imperative has used data from
the 2022 survey to develop a
new Climate Perception Index,
which will serve as a tool to
better understand the societal
implications of climate change
and enable policy makers
to deliver tangible positive
outcomes for their citizens.





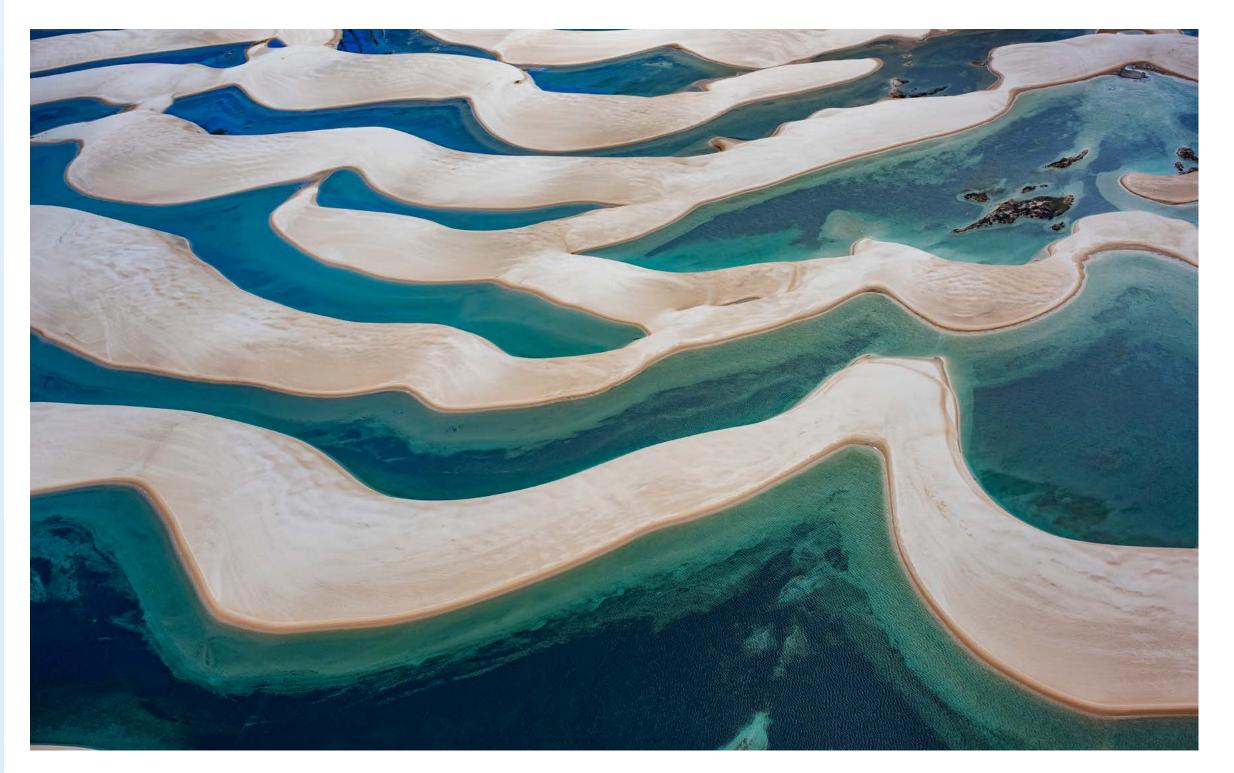
Looking ahead

Our mission is to give people the power to build community and bring the world closer together. We build tools to empower people to create positive change in their lives and in the lives of others. We invite you to stay connected and join us on about.meta.com/actions/responsible-business-practices, sustainability.fb.com, facebook.com/sustainability, on Facebook and @metasustainability, on Instagram.





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Forward looking statements

This report covers only Meta's business and does not address the performance or operations of our suppliers, contractors or partners. Statements regarding targets, goals and commitments are aspirational and may also be based on estimates and assumptions under developing standards that may change in the future. As such, no guarantees or promises are made that they will be met or successfully executed, and actual results may differ, possibly materially. In addition, data, statistics and metrics included in this report are non-audited estimates, not necessarily prepared in accordance with generally

accepted accounting principles, continue to evolve, and may be based on assumptions believed to be reasonable at the time of preparation but may be subject to revision. This report has not been externally assured or verified by an independent third party unless otherwise noted. This report represents Meta's current policy and intent and is not intended to create legal rights or obligations.

In this report, our use of the terms "material," "materiality" and other similar terms is consistent with that of GRI, SASB, TCFD and other standards referenced in the preparation of this report, or refers to

topics that reflect Meta's significant economic, social and environmental impacts or that substantially influence the assessments and decisions of a diverse set of stakeholders. We are not using these terms as they are used under the securities or other laws of the United States or any other jurisdiction or as these terms are used in the context of financial statements and financial reporting. This report is not comprehensive, and for that reason, should be read in conjunction with our most recent Annual Report on Form 10-K, our subsequent reports on Forms 10-Q and 8-K and other filings made with the Securities and Exchange Commission (SEC).

This report contains forwardlooking statements. All statements contained in this report other than statements of historical fact, including statements regarding our future results of operations and financial position, our business strategy and plans, and our objectives for future operations, as well statements regarding targets, goals and commitments, are forward-looking statements. The words "believe," "may," "will," "estimate," "continue," "anticipate," "intend," "expect," and similar expressions are intended to identify forwardlooking statements. We have based these forward-looking

statements largely on our current expectations and projections about future events and trends that we believe may affect our financial condition, results of operations, business strategy, short-term and long-term business operations and objectives, and financial needs.

Especially with respect to the matters discussed in this report, many factors and uncertainties relating to our operations and business environment, all of which are difficult to predict and many of which are outside of our control, influence whether any forward-looking statements can or will be achieved.

Any one of those factors, including as the result of changes in circumstances, estimates that turn out to be incorrect, standards of measurement that change over time, assumptions not being realized, or other risks or uncertainties, could cause our actual results, including the achievement of targets, goals or commitments, to differ materially from those expressed or implied in writing in any forward-looking statements made by Meta or on its behalf.

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Forward looking statements

We describe these risks and uncertainties in our SEC filings, including our most recent Annual Report on Form 10-K and our subsequent reports on Forms 10-Q and 8-K, as well as, with respect to targets, goals and commitments outlined in this report or elsewhere, the challenges and assumptions that are either identified in this report or that we are unable to foresee at this time. We cannot assure that the results reflected or implied by any forward-looking statement will be realized or, even if substantially realized, that those results will have the forecasted or expected consequences and effects.

We also caution that the important factors referenced therein may not include all of the factors that are important to readers. Our forward-looking statements speak only as of the date of this report or as of the date they are made, and we undertake no obligation to update this report to reflect subsequent events or circumstances, except as required by law. Given these risks and uncertainties, readers are cautioned not to place undue reliance on such forward-looking statements.

This report may contain links to other internet sites or references to third parties.

Such links or references are not incorporated by reference to this report, and we can provide no assurance as to their accuracy.

The use or inclusion of the information is also not intended to represent endorsements of any apps and services.



Environmental footprint

1.1 GHG emissions 1,2,3,4,5

Total GHG emissions

Market-based (in metric tons CO ₂ e)											
	2017	2018	2019	2020	2021	2022					
Net total	1,096,000	1,008,000	4,330,000	4,984,000	5,740,244	8,453,471					
Carbon removal (carbon credits applied) ⁷	-	-	-	145,000	90,000	80,000					
Total	1,096,000	1,008,000	4,330,000	5,129,000	5,830,244	8,533,471					
Scope 1	25,000	42,000	44,000	29,000	55,173	66,934					
Percent of total GHG emissions (Scopes 1-3)	2%	4%	1%	1%	1%	1%					
Scope 2	591,000	314,000	208,000	9,000	2,487	273					
Percent of total GHG emissions (Scopes 1-3)	54%	31%	5%	<1%	<1%	<1%					
Scope 3	480,000	652,000	4,078,000	5,091,000	5,772,583	8,466,264					
Percent of total GHG emissions (Scopes 1-3)	44%	65%	94%	99%	99%	99%					

Location-based (in metric tons CO₂e)

	2017	2018	2019	2020	2021	2022
Total	1,387,000	1,983,000	6,295,000	8,559,000	10,163,476	14,007,222

Greenhouse gas intensity

Market-based Scope 1 & 2 emissions (in metric tons CO2e/unit of key performance indicators)

	2017	2018	2019	2020	2021	2022
GHG intensity per monthly active person	0.00029	0.00015	0.00008	0.00001	0.00002	0.00002
GHG intensity per million USD of revenue	-	-	-	-	0.49	0.58
GHG intensity per MWh	-	-	-	-	0.0061	0.0058

- 1. Prior to 2021, values were rounded and totals were calculated before rounding throughout this report.
- 2. "Other data center-related facilities" includes facilities where Meta used less than 100,000 MWh of electricity in the reporting year, such as warehouses or colocation facilities. Owned, online data centers are always reported by site, even if they were below this threshold.
- 3. Meta's methodology for calculating greenhouse gas emissions can be found on page 57.
- 4. Prior to 2018, Scope 3 emissions included only business travel, employee commute and construction. Meta includes emissions from all relevant categories in Scope 3 for reporting years 2019 to the present.
- 5. In the 2022 reporting year, several updates to reporting were applied to the 2021 and later inventories.
 - (a) Data from life cycle assessments for our hardware and sold products were used to calculate our Scope 3 emissions.
 - (b) 2021 category 1, 2, 8, & 11 emissions were recalculated with higher quality data inputs to improve accuracy.
 - (c) All Scope 3 Categories were broken out individually to improve transparency and eliminate the previously reported "Other Applicable"
 - (d) Emissions associated with third-party construction-related energy usage were recategorized into Category 1 instead of Category 3 to better align with the GHG Protocol Scope 3 Category Boundaries.
 - (e) Emissions associated with overhead electricity load at leased data centers was recategorized into Category 8 Instead of Category 3 to better align with the GHG Protocol Scope 3 Category Boundaries.
 - (f) 2021 Category 6 emissions were recalculated to incorporate more accurate and transparent methodologies for applying sustainable aviation fuel emissions reductions.
 - (g) 2021 Total Fuel and Energy Consumption were recalculated to eliminate third-party party construction-related fuel use outside of Meta's Operational Control.

Environmental footprint

Operational GHG	emissions					
Market-based Scope 1	& 2 emissions (ir	n metric tons CO26	e) ⁶			
	2017	2018	2019	2020	2021	2022
Total operational GHG emissions	616,000	356,000	252,000	38,000	57,661	67,207
Data centers total	568,000	314,000	207,000	14,000	25,240	22,163
Altoona, IA	1,000	1,000	2,000	1,000	2,118	920
Clonee, Ireland	<500	<500	<500	1,000	1,364	264
Dekalb, IL	-	-	-	-	0	1,859
Eagle Mountain, UT	-	-	-	-	3,250	3,609
Forest City, NC	136,000	53,000	9,000	<500	1,401	587
Fort Worth, TX	1,000	1,000	1,000	<500	779	625
Gallatin, TN	-	-	-	-	-	138
Richmond, VA	-	-	<500	<500	4,822	821
Huntsville, AL	-	-	-	-	261	1,788
Los Lunas, NM	-	1,000	1,000	<500	1,067	1,298
Luleå, Sweden	<500	<500	<500	<500	374	79
New Albany, OH	-	-	<500	2,000	408	2,605
Newton County, GA	-	-	-	-	300	535
Odense, Denmark	-	-	<500	<500	2,824	655
Papillion, NE	-	<500	<500	3,000	2,348	1,642

Market-based Scope 1 & 2 emissions (in metric tons CO₂e) ⁶ (Continued)											
	2017	2018	2019	2020	2021	2022					
Prineville, OR	239,000	137,000	1,000	3,000	3,862	4,501					
Leased data center facilities	98,000	102,000	188,000	-	25	72					
Other data center- related facilities	40,000	17,000	4,000	2,000	40	166					
Offices total	48,000	42,000	44,000	24,000	32,421	45,044					

Looking Ahead

Data Index

6. In the 2019 reporting year, three updates to reporting were applied to 2017 (baseline year) and later inventories:

- (a) Vehicles operated by the Transportation Team in support of commuting and inter-campus travel were previously counted in Scope 3 Employee commute. After re-visiting Meta's operational control of these vehicles, it was determined that they should be accounted for in Scope 1.
- (b) It was determined that Meta overestimated natural gas emissions by including estimates for offices that do not in fact use natural gas. Recalculations have been applied to the inventory to remove these inaccuracies.
- (c) Fugitive emissions from refrigerant losses at offices not under Meta operational control were moved from Scope 2 to Scope 3.

Data Index

Environmental footprint

Market-based vs. Location-based

Scope 2 emissions (in metric tons CO₂e)

	2018 2019		2020		20)21	2022			
	Market-based	Location-based								
Total facilities GHG emissions	314,000	1,241,000	205,000	1,885,000	9,000	2,718,000	2,487	3,080,194	273	3,921,611
Data centers total	308,000	1,181,000	197,000	1,813,000	2,000	2,650,000	2,487	2,987,964	273	3,821,450
Altoona, IA	-	346,000	-	483,000	-	555,000	-	425,377	-	474,826
Clonee, Ireland	-	82,000	-	143,000	-	159,000	-	187,475	-	178,367
Dekalb, IL	-	-	-	-	-	-	-	2,122	-	8,087
Eagle Mountain, UT	-	-	-	-	-	-	-	62,962	-	145,985
Forest City, NC	52,000	201,000	8,000	208,000	-	202,000	-	165,026	-	143,754
Fort Worth, TX	-	212,000	-	295,000	-	399,000	-	378,198	-	355,696
Gallatin, TN	-	-	-	-	-	-	-	-	-	2,664
Richmond, VA	137,000	-	-	3,000	-	69,000	-	146,396	-	204,494
Huntsville, AL	-	-	-	-	-	-	-	32,464	-	156,885
Los Lunas, NM	-	12,000	-	135,000	-	266,000	-	276,795	-	347,033
Lueleå, Sweden	-	7,000	-	6,000	-	7,000	-	3,917	-	2,782
New Albany, OH	-	-	-	20,000	-	157,000	-	229,785	-	335,561
Newton County, GA	-	-	-	-	-	-	-	84,402	-	258,773
Odense, Denmark	-	1,000	<500	18,000	-	57,000	2,487	51,171	273	49,198
Papillion, NE	-	3,000	-	101,000	-	294,000	-	329,674	-	458,460

Data Index

Environmental footprint

Scope 2 emissions (in metric tons CO ₂	Scope 2 emissions (in metric tons CO ₂ e) (Continued)										
	2018		20	019	2020		2021		2022		
	Market-based	Location-based	Market-based	Location-based	Market-based	Location-based	Market-based	Location-based	Market-based	Location-based	
Prineville, OR	-	145,000	-	167,000	-	200,000	-	245,996	-	284,462	
Leased data center facilities	102,000	128,000	188,000	193,000	-	223,000	-	272,848	-	323,060	
Other data center-related facilities	17,000	44,000	1,000	41,000	2,000	62,000	-	93,354	-	91,364	
Offices total	6,000	60,000	8,000	72,000	7,000	68,000	-	92,230	-	100,160	

Environmental footprint

Value chain GHG emissions

Scope 3 emissions (in Metric Tons CO₂e) 1,5,7,8

	2017	2018	2019	2020	2021	2022
Total	480,000	652,000	4,078,000	5,091,000	5,772,583	8,466,264
Category 1: Purchased Goods & Services ^{5, 8}	-	-	1,428,000	1,846,000	2,956,909	2,545,466
Of Total (in %)	-	-	35%	36%	51%	30%
Category 2: Capital Goods ^{5, 8}	-	-	1,671,000	2,516,000	2,466,041	5,346,583
Of Total (in %)	-	-	41%	49%	43%	63%
Category 3: Fuel & Energy- Related Activities ⁵	-	-	264,000	56,000	10,483	12,658
Of Total (in %)	-	-	6%	1%	<1%	<1%
Category 4: Upstream Transportation and Distribution	-	-	65,000	49,000	180,183	176,636
Of Total (in %)	-	-	2%	1%	3%	2%
Category 5: Waste Generated in Operations ^{5, 8}	-	-	4,000	10,000	18,430	18,519
Of Total (in %)	-	-	<1%	<1%	<1%	<1%
Category 6: Business Travel	246,000	397,000	529,000	129,000	8,653	251,807
Of Total (in %)	-	-	13%	3%	<1%	3%
Category 7: Employee Commuting ⁸	43,000	71,000	90,000	61,000	23,163	45,054
Of Total (in %)	-	-	2%	1%	<1%	<1%
Category 8: Upstream Leased Assets ⁵	-	-	16,000	24,000	1,185	3,444
Of Total (in %)	-	-	<1%	<1%	<1%	<1%

Scope 3 emissions (in N	Metric Tons CO2e) (Continued)
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•						
	2017	2018	2019	2020	2021	2022
Category 9: Downstream Transportation and Distribution ⁵	-	-	5,000	10,000	37	16
Of Total (in %)	-	-	<1%	<1%	<1%	<1%
Category 11: Use of Sold Products ⁵	-	-	5,000	390,000	106,232	62,306
Of Total (in %)	-	-	<1%	8%	2%	<1%
Category 12: End-of-Life Treatment of Sold Products ⁵	-	-	<500	<500	1,267	3,775
Of Total (in %)	-	-	<1%	<1%	<1%	<1%

Data Index

- 1. Prior to 2021, values were rounded and totals were calculated before rounding throughout this report.
- 5. In the 2022 reporting year, several updates to reporting were applied to the 2021 and later inventories.
 - (a) Data from life cycle assessments for our hardware and sold products were used to calculate our Scope 3 emissions.
 - (b) 2021 Category 1, 2, 8, & 11 emissions were recalculated with higher quality data inputs to improve accuracy.
 - (c) All Scope 3 categories were broken out individually to improve transparency and eliminate the previously reported "Other Applicable Categories."
- (d) Emissions associated with third-party construction-related energy usage were recategorized into Category 1 instead of Category 3 to better align with the GHG Protocol Scope 3 Category Boundaries.
- (e) Emissions associated with overhead electricity load at leased data centers was recategorized into Category 8 Instead of Category 3 to better align with the GHG Protocol Scope 3 Category Boundaries.
- (f) 2021 Category 6 emissions were recalculated to incorporate more accurate and transparent methodologies for applying sustainable aviation fuel emissions reductions.
- (g) 2021 Total Fuel and Energy Consumption were recalculated to eliminate third-party construction-related fuel use outside of Meta's Operational Control.
- 7. Sustainable Aviation Fuel was purchased in 2022 and associated emissions reductions are reflected in the inventory.
- 8. In the 2022 reporting year, the following updates to the methodology were applied:
 - (a) A new Category 5 estimation methodology was developed to improve completeness across all operations.
 - (b) Employee commuting now includes emissions calculations on a well-to-tank basis.
 - (c) a new Category 1 and Category 2 methodology was developed to improve the completeness, accuracy and reliability of the underlying activity and financial data.

Environmental footprint

2.1 Electricity						
Electricity consumpt	tion					
Electricity consumption	by facility (In MW	h)				
	2017	2018	2019	2020	2021	2022
Total electricity consumption	2,462,000	3,427,000	5,140,000	7,170,000	9,420,839	11,508,131
Electricity from grid (%)	100%	100%	100%	100%	100%	100%
Data centers total	2,360,000	3,245,000	4,918,000	6,966,000	9,117,122	11,167,416
Altoona, IA	500,000	612,000	853,000	980,000	950,705	1,043,606
Clonee, Ireland	1,000	200,000	382,000	487,000	634,648	668,290
Dekalb, IL	-	-	-	-	4,724	16,934
Eagle Mountain, UT	-	-	-	-	229,946	504,049
Forest City, NC	433,000	547,000	614,000	595,000	580,842	492,786
Fort Worth, TX	189,000	461,000	695,000	941,000	1,014,447	959,419
Gallatin, TN	-	-	-	-	0	6,264
Richmond, VA	-	-	10,000	204,000	515,270	701,003
Huntsville, AL	-	-	-	-	85,286	368,841
Los Lunas, NM	-	26,000	289,000	571,000	717,932	929,488
Luleå, Sweden	301,000	337,000	373,000	369,000	306,054	267,471
New Albany, OH	-	-	38,000	270,000	511,414	702,694
Newton County, GA	-	-	-	-	215,279	636,266
Odense, Denmark	-	4,000	128,000	343,000	500,863	517,718

Electricity consumption by facility (in MWh) (Continued)

	2017	2018	2019	2020	2021	2022
Papillion, NE	-	5,000	178,000	519,000	736,810	1,007,635
Prineville, OR	426,000	488,000	573,000	686,000	898,409	982,177
Leased data center facilities	359,000	432,000	647,000	795,000	964,650	1,105,834
Other data center-related facilities	135,000	133,000	113,000	206,000	249,843	256,939
Offices Total	102,000	181,000	222,000	204,000	303,717	340,657
Electricity intensity (in	n MWh/unit o	f key perform	ance indicator	s)		
	2017	2018	2019	2020	2021	2022
Electricity intensity per monthly active person	-	-	-	-	0.0026	0.0031
Electricity intensity per million USD revenue	-	-	-	-	79.9	98.7
Electricity mix (in % o	f total electric	city used)				
	2017	2018	2019	2020	2021	2022
Renewable	51%	75%	86%	100%	100%	100%
Non-renewable	49%	25%	14%	0%	0%	0%

Data Index

2.2 Total energy consumed

Energy consumption (in GJ)⁵

	2017	2018	2019	2020	2021	2022
Total energy consumption	-	-	-	27,075,000	34,882,163	42,560,221
Direct energy consumption	-	-	-	438,000	853,042	1,138,794
Indirect energy consumption	-	-	-	26,638,000	34,029,121	41,421,428

Environmental footprint

2.3 Fuels

Fuel consumption ⁵

	2017	2018	2019	2020	2021	2022		
Natural gas (therms)	-	-	-	-	6,153,856	7,539,592		
Diesel — diesel fuel (gal)	-	-	-	-	363,082	1,376,871		
Diesel — distillate fuel oil No.4 (gal)	-	-	-	-	842,460	724,151		
Gasoline (gal)	-	-	-	-	52,375	119,955		
Propane (gal)	-	-	-	-	0	0		
Renewable fuels								
Hydrotreated vegetable oil (gal)	-	-	-	-	0	0		

2.4 Data center operations and design

Power usage effectiveness (PUE)

	2017	2018	2019	2020	2021	2022
PUE (data center energy efficiency)	1.10	1.11	1.11	1.10	1.09	1.08

Sustainable design

Green building standards for data centers and offices (% of sq ft covered by green building standards and/or EnMS)

	2017	2018	2019	2020	2021	2022
Total	-	-	-	-	98%	99%
Data centers (LEED Gold or above, or ISO 50001)	-	-	-	-	100%	100%
Offices (LEED Gold or above, or ISO 50001)	-	-	-	-	97%	98%

- 5. In the 2022 reporting year, several updates to reporting were applied to the 2021 and later inventories
- (a) Data from life cycle assessments for our hardware and sold products were used to calculate our Scope 3 emissions.
- (b) 2021 Category 1, 2, 8, & 11 emissions were recalculated with higher quality data inputs to improve accuracy.
- (c) All Scope 3 categories were broken out individually to improve transparency and eliminate the previously reported "Other Applicable Categories"
- (d) Emissions associated with 3rd party construction related energy usage were recategorized into Category 1 instead of Category 3 to better align with the GHG Protocol Scope 3 Category Boundaries
- (e) Emissions associated with overhead electricity load at leased data centers was recategorized into Category 8 Instead of Category 3 to better align with the GHG Protocol Scope 3 Category Boundaries
- (f) 2021 Category 6 emissions were recalculated to incorporate more accurate and transparent methodologies for applying sustainable aviation fuel
- (g) 2021 Total Fuel and Energy Consumption were recalculated to eliminate 3rd party construction-related fuel use outside of Meta's Operational Control

Environmental footprint

3.1 Water withdrawa	al ⁹					
Water withdrawal						
Water withdrawal by fac	ility (in cubic mete	ers)				
	2017	2018	2019	2020	2021	2022
Total water withdrawal	1,609,000	2,367,000	3,430,000	3,726,000	5,042,564	4,893,023
Data centers total	1,139,000	1,730,000	2,731,000	3,000,000	3,417,791	3,618,003
Altoona, IA	106,000	139,000	145,000	151,000	140,231	199,378
Clonee, Ireland	10,000	188,000	395,000	615,000	927,914	838,654
Dekalb, IL	-	-	-	-	0	29,659
Eagle Mountain, UT	-	-	-	-	57,701	89,366
Forest City, NC	129,000	99,000	85,000	68,000	64,053	62,853
Fort Worth, TX	98,000	269,000	322,000	300,000	253,520	346,115
Gallatin, TN	-	-	-	-	0	0
Richmond, VA	-	-	-	42,000	80,478	54,994
Huntsville, AL	-	-	-	-	38,520	103,501
Los Lunas, NM	-	25,000	92,000	140,000	152,666	161,436
Luleå, Sweden	66,000	53,000	58,000	49,000	38,922	25,358
New Albany, OH	-	-	33,000	35,000	121,194	87,413
Newton County, GA	-	-	-	-	105,121	77,203
Odense, Denmark	-	-	266,000	360,000	373,355	427,937
Papillion, NE	-	-	62,000	108,000	106,339	100,912
Prineville, OR	172,000	160,000	208,000	445,000	353,951	240,302

About

Water withdrawal by facility (in cubic meters)							
	2017	2018	2019	2020	2021	2022	
Leased data center facilities	473,000	533,000	1,011,000	645,000	603,629	772,921	
Other data center-related facilities	85,000	264,000	54,000	42,000	197	0	
Offices total	470,000	631,000	699,000	726,000	1,624,773	1,275,021	

Water withdrawal by source

Water withdrawal by source (in cubic meters)

367,000	3,430,000	3,726,000	5,042,564	4 007 007
			3,072,307	4,893,023
-	-	-	0	0
-	-	37,000	33,285	37,343
-	-	-	0	0
-	-	-	0	0
-	-	3,689,000	5,009,279	4,855,680
	-			0 O

Water usage effectiveness (WUE)

	2017	2018	2019	2020	2021	2022
Annual data center WUE	0.24	0.27	0.27	0.30	0.26	0.20

9. Not included in Meta's 2022 water withdrawal numbers are an additional 1,780,000 cubic meters of water withdrawn for the construction of Meta data centers.

Offices total

Leadership About Vision How We Operate What We Create How We Collaborate Looking Ahead

Environmental footprint

Water withdrawal int	ensity (in cubi	c meters/unit	of key perforr	nance indicato	ors)	
	2017	2018	2019	2020	2021	2022
Water withdrawal per monthly active person	0.000755	0.001020	0.001200	0.001130	0.001405	0.001308
Water withdrawal per million USD revenue	-	-	-	-	42.8	42.0
Water withdrawal fro	om areas with	water stress (in cubic meter	rs)		
	2017	2018	2019	2020	2021	2022
Total water withdrawal	1,609,000	2,367,000	3,430,000	3,726,000	5,042,564	4,893,023
From areas with high or extremely high baseline water stress	-	-	-	-	1,390,166	1,130,181
From areas without water stress	-	-	-	-	3,652,398	3,762,843
Recycled water (in cu	ıbic meters)					
	2017	2018	2019	2020	2021	2022
Total water recycled	469,000	673,000	854,000	643,000	580,223	265,906
3.2 Water consumpti	on					
Water consumption (in cubic meter	s)				
	2017	2018	2019	2020	2021	2022
Total water consumption	838,000	1,279,000	1,971,000	2,202,000	2,568,849	2,638,188
Data centers total	-	-	-	2,197,000	162,477	2,510,686

Water consumption for	rom areas wit	h water stress	s (in cubic met	ters)		
	2017	2018	2019	2020	2021	2022
Total water consumption	838,000	1,279,000	1,971,000	2,202,000	2,568,849	2,638,188
From areas with high or extremely high baseline water stress	-	-	-	-	162,477	443,150
From areas without water stress	-	-	-	-	2,406,372	2,195,038
3.3 Water discharge						
Water discharge by so	ource (in cubic	meters)				
	2017	2018	2019	2020	2021	2022
Total water discharge	-	-	-	1,524,000	2,473,716	2,254,835
To surface water	-	-	-	-	0	0
To groundwater	-	-	-	-	0	0
To seawater	-	-	-	-	0	0
To third-party water (e.g. municipal sewers)	-	-	-	1,524,000	2,473,716	2,254,835
Water discharge to ar	eas with wate	er stress (in cu	ıbic meters)			
	2017	2018	2019	2020	2021	2022
Total water discharge	-	-	-	1,524,000	2,473,716	2,254,835
To areas with water stress	-	-	-	-	863,836	687,031
To areas without water stress	-	-	-	-	1,609,879	1,567,804

Data Index

2023 Meta Sustainability Report

127,502

2,406,372

73,000

Data Index

Environmental footprint

3.4 Water stewardshi	р									
Water restoration (in	Water restoration (in cubic meters)									
	2017	2018	2019	2020	2021	2022				
Volumetric water restoration benefits	-	132,000	145,000	2,250,000	2,335,672	2,351,562				
Progress on 2030 net	positive wat	er goal (in cub	ic meters)							
	2017	2018	2019	2020	2021	2022				
Total water consumption	838,000	1,279,000	1,971,000	2,202,000	2,569,000	2,638,000				
Total water restored	-	132,000	145,000	2,250,000	2,335,672	2,351,562				
Water use embedded	in purchased	electricity (In	cubic meters)							
	2017	2018	2019	2020	2021	2022				
Embedded consumption in purchased electricity - location-based	-	-	-	-	31,923,969	41,172,356				
Embedded consumption in purchased electricity - market-based	-	-	-	-	3,312,616	2,894,787				
Avoided water consumption	-	-	-	-	28,611,342	38,277,569				

Environmental methodology

At Meta, our sustainability work helps us to operate efficiently and responsibly in our mission to build community and bring the world closer together. As a global company, we recognize the tech industry's environmental impact and role to play in addressing climate change. We embrace the responsibility to understand the full scope of our footprint and be transparent and accountable in our mission to reduce our emissions.

Identifying the source of our emissions on an annual basis enables us to prioritize emissions reduction where we can make the most meaningful progress on our path to net zero emissions across our value chain in 2030. Similarly, minimizing our water use, being transparent with our water data, and restoring water in the same watersheds where our data centers are located are vital to reach our commitment to restore more water than we use by 2030.

Meta's GHG emissions

Meta's GHG footprint includes the emissions associated with running our business and data centers, as well as the indirect emissions upstream and downstream of our operations. These emissions correspond to Scope 1, Scope 2 and Scope 3 emissions as defined by the World Resources Institute (WRI) <u>Greenhouse Gas Protocol</u>. Meta uses the operational control approach when calculating our GHG footprint, in which we account for 100% of the GHG emissions over which we have operational control.

OPERATIONAL EMISSIONS

Scope 1 and 2 emissions are considered our operational emissions. Scope 1 emissions come from our direct operations, such as combustion of natural gas to heat our offices and the fuel burned in our employee shuttles. Scope 2 includes indirect emissions from purchased energy, such as the electricity powering our data centers. We consider purchased electricity for construction and overhead electricity within leased data centers outside of our operational control and therefore report these in Scope 3.

SCOPE 1 EMISSIONS Direct emissions from our data centers, offices and transportation fleet	 Stationary combustion (e.g., natural gas consumed at our Menlo Park campus for heating) Mobile combustion (e.g., diesel emissions from our intercampus shuttles) Fugitive emissions (e.g., refrigerant losses)
SCOPE 2 EMISSIONS Indirect emissions from purchased energy for our data centers and offices	 Purchased electricity District heating Stationary combustion from leased sites

Data Index

In 2020, Meta reduced our operational emissions by 94% from a 2017 baseline and addressed the residual emissions with high-quality carbon removal projects. As a result, Meta's operations have produced net zero emissions since then.

FULL VALUE CHAIN EMISSIONS

Scope 3 emissions come from sources within our full value chain beyond our operations and comprise the largest component of our footprint. Scope 3 includes:

- 1. Upstream emissions, such as the emissions from manufacturing our data center servers or emissions from employee commutes; and
- 2. Downstream emissions, such as the emissions associated with people using our Portal or Quest devices.

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How We Collaborate **Looking Ahead**

Environmental methodology

SCOPE 3 EMISSIONS

Our value chain emissions upstream and downstream of our operations

Upstream:

- Purchased goods and services (e.g., upstream emissions from purchased office supplies)
- Capital goods (e.g., server hardware)
- Fuel and energy-related activities
- Upstream transportation and distribution (e.g., emissions associated with the transportation of AR/VR-related consumer hardware)
- Waste generated from our operations
- Business travel
- Employee commuting (including telecommuting)
- Upstream leased assets (Including leased data center overhead electricity use)

Downstream:

- Downstream transportation and distribution
- Direct use of our AR/VR-related consumer hardware
- End-of-life treatment of our AR/VR-related consumer hardware

How we calculate our GHG emissions

Meta is aligning our emissions reduction targets with the Science Based Targets initiative → and takes a scientific, standardized approach to calculating its GHG emissions in accordance with the GHG Protocol 7. Furthermore, Meta's GHG emissions data and methodologies undergo third party verification each year. This is completed annually to ensure that only the most accurate and up-to-date data is publicly reported.

We quantify our GHG emissions via activity data, LCAs and financial data. We prioritize calculating our emissions through activity data that directly measures an activity that results in GHG emissions, such as kilowatt hours (kWh) of electricity. Due to the complex nature of our business and value chain, we use other methods to help calculate our emissions when activity data is not available.

We measure our emissions by metric tons of carbon dioxide equivalent, or CO₂e, units. CO₂e is used to standardize the emissions from different GHGs based on their global warming potentials.

ACTIVITY DATA

For activity data, we take the quantity of a specific measured activity and multiply it by an associated emissions factor to calculate the total emissions from that activity. For example, the kWh of electricity consumed at a Meta site is multiplied by the appropriate country-specific or regional-specific, publicly available emissions factor to calculate the total emissions from that site's electricity use. We use activity data to calculate:

- Scope 1 and 2 emissions
- Fuel and energy-related activities
- Waste generated in operations
- · Upstream transportation and distribution where supplier specific data is available
- Business travel (including radiative forcing)

Data Index

- Employee commuting
- Direct use of our AR/VR-related consumer hardware

Environmental methodology

Where activity data is incomplete or unavailable for an operation that results in GHG emissions, existing activity data is used as a proxy to estimate these emissions. This ensures we are reporting a complete GHG inventory across all of our operations. For example, the weight of waste at several Meta sites is used as a proxy to estimate waste at other sites in the same region that do not have final waste weight data.

LCAs

To understand cradle-to-gate emissions and/or upstream emissions that are released before certain assets are used (e.g., the emissions released from the production of concrete before it is poured), we conduct third-party LCA studies or utilize LCA tools to measure our impact. This is applicable in our 2022 inventory for the following emissions:

- · Upstream emissions associated with the materials used in the construction of our data centers
- · Upstream emissions of materials in office renovations and new construction
- Cradle-to-gate emissions of our augmented and virtual reality related consumer hardware, such as Portal and Quest devices
- Cradle-to-gate emissions in key data center hardware components, such as hard drives
- End-of-life treatment of our AR/VR-related consumer hardware

FINANCIAL

Our Environmentally Extended Input Output (EEIO) method utilizes financial spend data and applies industry-specific emission factors (e.g., kg CO₂e per dollar spent on electronic manufacturing) <u>published by the U.S. Environmental Protection Agency (EPA) 7</u> to calculate "cradle-to-gate" emissions. We apply the EEIO method to the following:

- Purchased goods and services
- Capital goods not related to data center and office construction, AR/VR-related consumer hardware, and key data center hardware components
- Upstream transportation and distribution where supplier specific data is unavailable
- Upstream leased assets

MARKET-BASED INSTRUMENTS

We have publicly committed to supporting its global operations with 100% renewable energy. We procure and retire one Energy Attribute Certificate (EAC) for every MWh of electricity used to power our global operations. Meta also procures and retires one EAC for every MWh of electricity use in select Scope 3 categories.^A Additionally, Meta procures Sustainable Aviation Fuel (SAF) and applies the associated emissions reductions from SAF allocated in the reporting year as a market-based instrument to Category 6: Business Travel.

Data Index

A core focus of Meta's renewable energy program is adding new renewable energy projects to the electricity grids that support our data centers to drive the transition to renewable energy in our communities. In alignment with these principles, Meta adheres to the following EAC market boundaries:

- 1. Owned data centers^B: EACs from the same grid region^C
- 2. Leased data centers^D: EACs from the same grid region or same geographic region^E
- 3. Other Scope 2 loads (offices, points-of-presence): EACs from same grid region or same geographic region
- 4. Scope 3 loads: EACs from same grid region; once exhausted, EACs from same geographic region

Meta's methodology aligns with the market boundaries set forth by the GHG Protocol for over 95% of our Scope 2 emissions, including for all Scope 2 emissions from our owned data centers. A small portion of our Scope 2 emissions are not covered by EACs within the GHG Protocol's market boundaries set forth, but are instead covered by EACs from within the same geographic region.

- A. This includes data center construction in Category 1: Purchased Goods & Services, transmission and distribution loss in Category 3: Fuel & Energy Related Activities, employee work from home in Category 7: Employee Commuting, leased data center overhead electricity use in Category 8: Upstream Leased Assets, and United States-based electricity consumption from our products in Category 11: Use of Sold Products.
- B. Owned data centers include all completed data centers owned and operated by Meta. Data center loads while under construction are treated in line with leased data centers.
- C. Grid Regions: WECC, ERCOT, MISO/SPP, PJM/NC, SERC, Nordpool (Europe), Singapore/Southeast Asia
- D. For reporting year 2022, all leased data center load was in the United States and covered by EACs generated in-country.
- E. Geographic Regions: Americas (AMER); Europe, Middle East, and Africa (EMEA); Asia Pacific (APAC)

Environmental methodology

Improving our GHG methodology

As Meta decarbonizes our value chain over the next decade, the data and methodology that drives our climate work will evolve and improve each year. We have disclosed our Scope 1 and 2 emissions for the last decade. We began reporting on some Scope 3 categories in 2015 and have reported on every relevant category defined by the GHG Protocol since 2019. As techniques to calculate our emissions improve, we will apply those methods to previous years to refine our GHG footprint. For example, in 2020 we used the EPA's updated EEIO emission factors for our Scope 3 calculations and updated our 2019 data accordingly.

Going forward, we will focus on increasing accuracy and granularity of our data. For example, we rebaselined our 2020 data based on updated LCA data for key data center hardware and our AR/VR-related consumer hardware. We will use activity data for more emissions categories as methods to do so become available. We will continue reporting and updating our emissions boundaries as our business grows on our path to net zero emissions.

PUE/WUE

Each year, we calculate the Power Usage Effectiveness (PUE) and Water Usage Effectiveness (WUE) of our data centers. PUE measures how efficiently our data centers consume the energy to operate our servers and network infrastructure. It is calculated by dividing the energy consumed at the data center by IT electricity load. The closer our annual PUE is to "1" indicates how efficient our data centers are designed to consume electricity.

Annual WUE is calculated by dividing our water withdrawal, in liters, by IT electricity load, in kWh. The closer WUE is to "0", the more efficient consumption of water to cool our IT-related infrastructure.

These metrics are calculated based on best available data, including internal meters, design estimates, and utility bills where applicable.

Meta's water withdrawal

The water that we use in our offices and at our data centers are withdrawn from our local water utilities or local aquifers. We report our water withdrawals based on data from our local water utilities or meter data, where available. We also report our water withdrawal during construction, based on reported data from our construction partners. Not included in Meta's 2022 operational water withdrawal numbers are an additional 1,780,000 cubic meters of water withdrawn for the construction of Meta data centers.

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Meta's water consumption

For our data centers, we determine our water consumption via two methods:

- 1. Calculating the difference between water withdrawal and wastewater discharge
- 2. Calculating consumption based on cycles of concentration from our cooling systems

For our offices, we estimate our water consumption based on industry averages. All of our wastewater is discharged to local wastewater facilities.

Water risk

We use water stress metrics in the WRI's <u>Aqueduct tool</u> to conduct initial assessments of our water risks. When appropriate, we increase the level of water risk based on additional local knowledge.

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