

Facebook's Net Zero Commitment



OUR APPROACH

Climate change is one of the most urgent issues facing our world today. Facebook is committed to helping solve the climate crisis and is aligning our program with the latest science on what is necessary to transition to a zero carbon future. We will be helping to scale existing technology and the development of new solutions that will reduce greenhouse gas (GHG) emissions and remove carbon from the atmosphere.

From the beginning, we have been committed to designing, building, and operating some of the most energy and water efficient data center facilities in the world. We are on track to achieve our 2020 goal to reach 100 percent renewable energy, as well as a 75 percent GHG emissions reduction (absolute) from a 2017 baseline for our global operations. In 2020 and beyond, Facebook will achieve net zero GHG emissions for our global operations (scopes 1 and 2).

Science tells us that the next 10 years will be the defining decade for dramatic emissions reductions to limit the worst impacts of climate change. The world must significantly reduce GHG emissions to meet the goals of the Paris Agreement and limit the rise in global average temperature to below 1.5 degrees Celsius above pre-industrial levels. This is why we are committing to the [Science Based Targets initiative](#) (SBTi) and setting a new, ambitious goal: **We are committing to reaching net zero GHG emissions across our value chain (scope 3) in 2030.**

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Over the next decade

Facebook will work to decarbonize our value chain and enable GHG reduction advancements and carbon removal technology.

FACEBOOK WILL BE ALIGNING OUR REDUCTION PROGRAM WITH A 1.5 DEGREE CELSIUS PATHWAY

Reducing greenhouse gas emissions will be our top priority. Supporting our operations with renewable energy has been critical in reducing our **scope 1 and scope 2** emissions. Our renewable energy commitments are leading to the construction of over 5,400 megawatts (MW) of new solar and wind power plants globally, equivalent to reducing our GHG emissions by more than 2.6 million metric tons over the past three years. We will continue to reduce our scope 1 and scope 2 emissions in line with climate science through our operational efficiency efforts and maintaining 100 percent renewable energy.

We are approaching **scope 3** GHG emissions reductions across the life cycle of our **offices** and **data centers** and through partnerships with our suppliers. We will continue to reduce our GHG emissions and improve sustainability performance by incorporating circular economy principles into our buildings, server hardware, and consumer products. This includes evaluating materials with lower carbon impacts, building repairability and recyclability principles into design processes, **extending the life span of our hardware**, and continuing to ensure responsible end-of-life management.

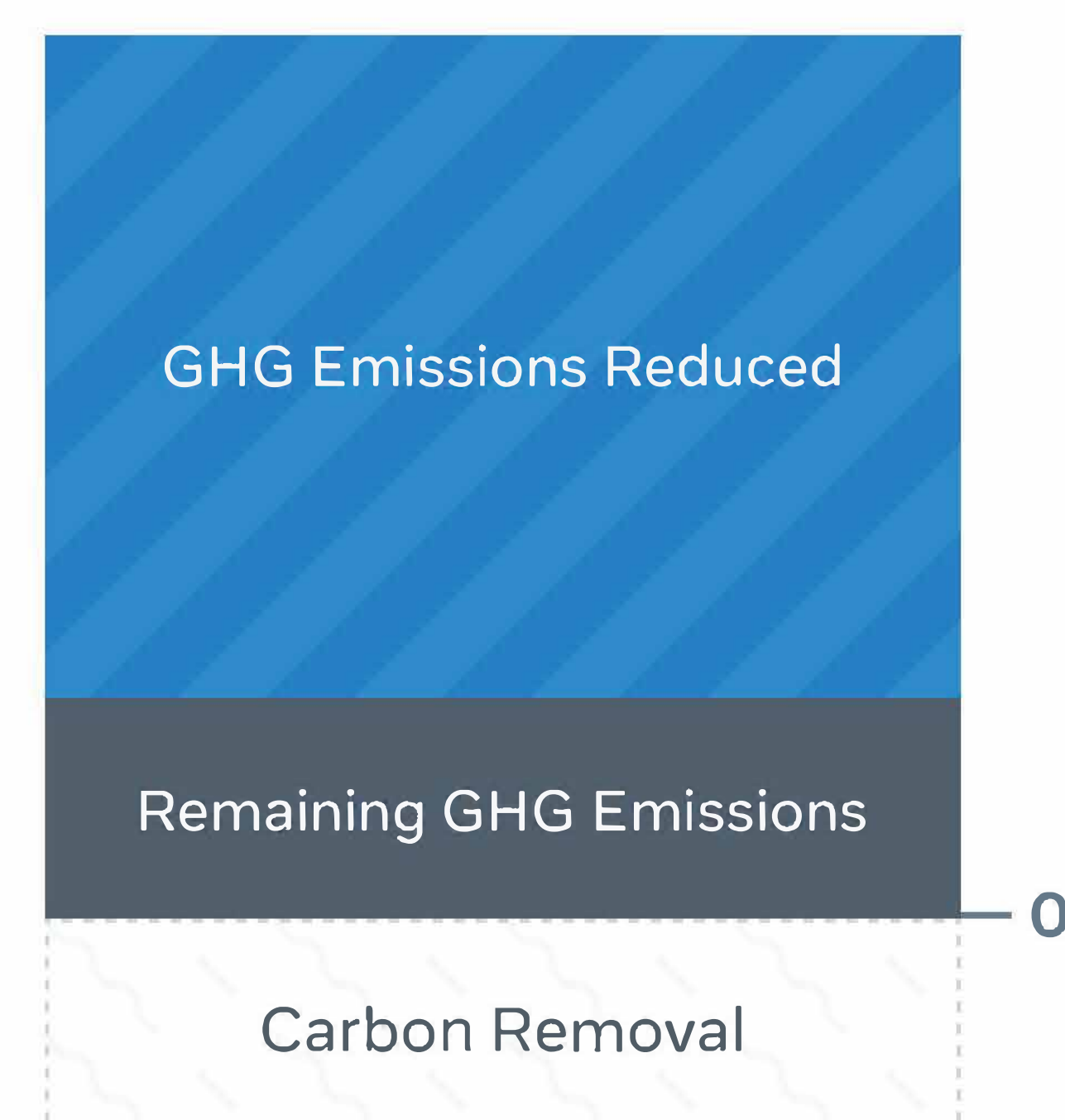
Through our **Responsible Supply Chain** program, we partner with suppliers to build capacity on data reporting and to support on-site energy assessments that identify energy reduction opportunities and improve environmental performance. Building on these engagement programs, we will provide support for energy efficiency improvements and renewable energy procurement. We will also be working with key suppliers to help them set their own science-based targets and to implement accurate greenhouse gas emissions reporting.

Building from our past commitments and progress, we will evolve our program as we gain more experience. Our **employees** will continue to play an important role in driving GHG emissions reductions across our business practices. Through partnership with business functions, our global network of employee-led green teams and **internal hackathons**, our employees are accelerating sustainability at Facebook.

We are committing to the Science Based Targets initiative, aligning our corporate climate goals with the latest science.

FACEBOOK WILL BE SUPPORTING CARBON REMOVAL SOLUTIONS TO ACHIEVE NET ZERO

As noted in the IPCC 1.5°C special report¹, removing greenhouse gases from the atmosphere is a critical component to limit global warming to 1.5°C above pre-industrial levels. When combined with achieving significant emissions reductions, projects and technology that remove carbon from the atmosphere can serve as a bridging mechanism toward long-term decarbonization. We recognize that some of our emissions will be very difficult to reduce by 2030, and we will support projects that remove carbon equal to the emissions we are not able to reduce by then.



¹IPCC, 2018: Global Warming of 1.5°C. An IPCC Special Report on the impacts of global warming of 1.5°C above pre-industrial levels and related global greenhouse gas emission pathways, in the context of strengthening the global response to the threat of climate change, sustainable development, and efforts to eradicate poverty [Masson-Delmotte, V., P. Zhai, H.-O. Pörtner, D. Roberts, J. Skea, P.R. Shukla, A. Pirani, W. Moufouma-Okia, C. Péan, R. Pidcock, S. Connors, J.B.R. Matthews, Y. Chen, X. Zhou, M.I. Gomis, E. Lonnoy, T. Maycock, M. Tignor, and T. Waterfield (eds.)]. In Press. Assessed August 2020. <https://www.ipcc.ch/sr15/>

In 2019, we purchased carbon credits totaling more than **100,000 metric tons**, which supported avoided emissions projects, such as forest conservation. Our approach in 2020 and beyond is to prioritize carbon removal projects, beginning with nature-based solutions, and to enable emerging technologies that will advance the industry. Nature-based solutions may include reforestation projects and regenerative agriculture projects.

We consider a number of criteria in selecting carbon removal projects, including:

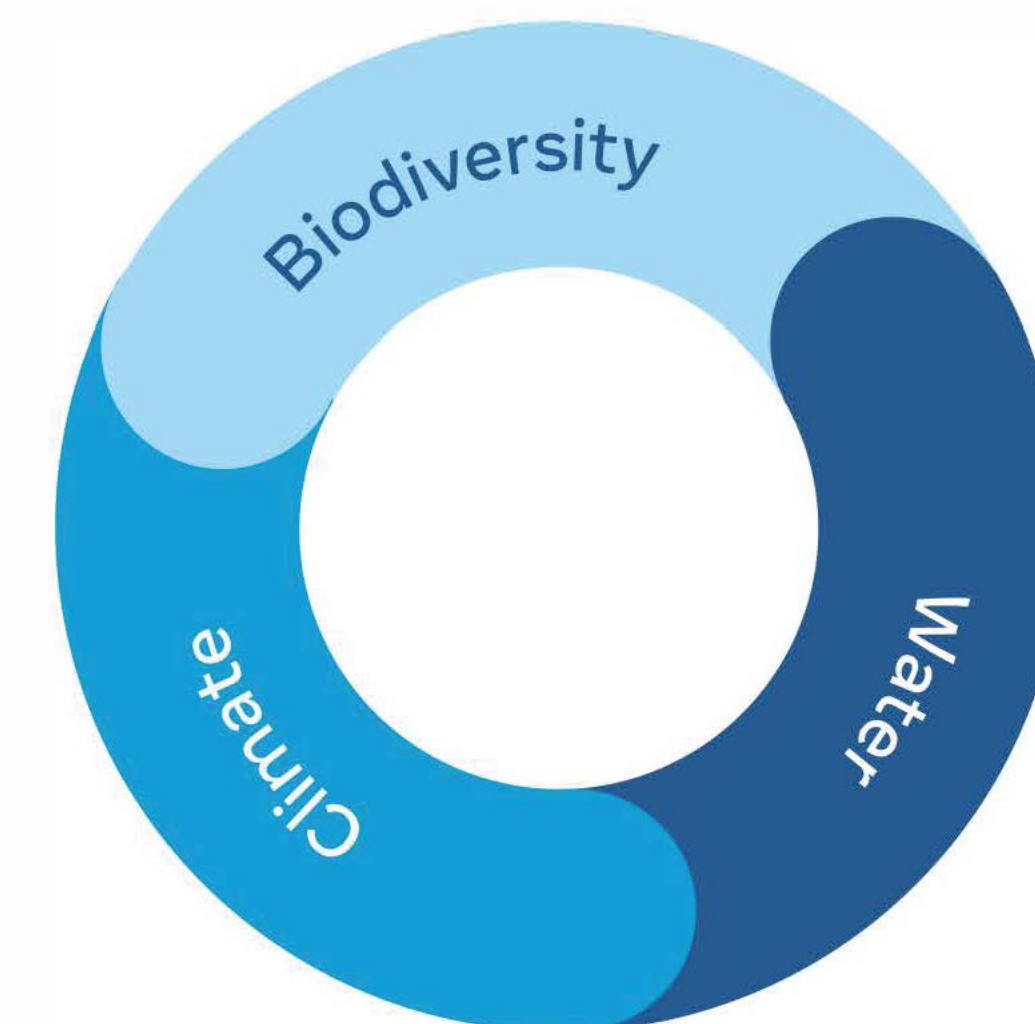
- Demonstration of additionality
- Design for permanent impact
- Alignment with social and environmental co-benefits
- Enablement of climate justice and equity
- Quantification using recognized standards
- Assurance by an accredited third-party verifier

FACEBOOK'S INTEGRATED APPROACH TO CLIMATE RESILIENCE ACROSS WATER STEWARDSHIP AND BIODIVERSITY

Climate change is an urgent and interlocking environmental crisis facing the world's natural systems. The impacts are already being felt around the world, with the poorest communities being hit hardest. We understand the importance of strengthening resilience and adaptability to climate-related hazards and natural disasters while helping to build resilient and equitable communities. As we expand our operations, we are taking an integrated approach to resilience across our climate, water, and emerging biodiversity work.

Water is one of the primary mediums through which communities experience the impacts of climate change, increasingly through droughts and floods. We continue to strengthen our water stewardship program as a means to improve climate resilience. We support water restoration projects that promote long-term sustainability of local watersheds. By the end of 2020, we will have contracted water restoration projects at $\frac{2}{3}$ of our **high water stressed data center locations**. As a result of these efforts, we have helped restore landscapes and rivers that increase wetlands and fish and wildlife habitat, as well as increase resilience to floods and droughts and help protect endangered species.

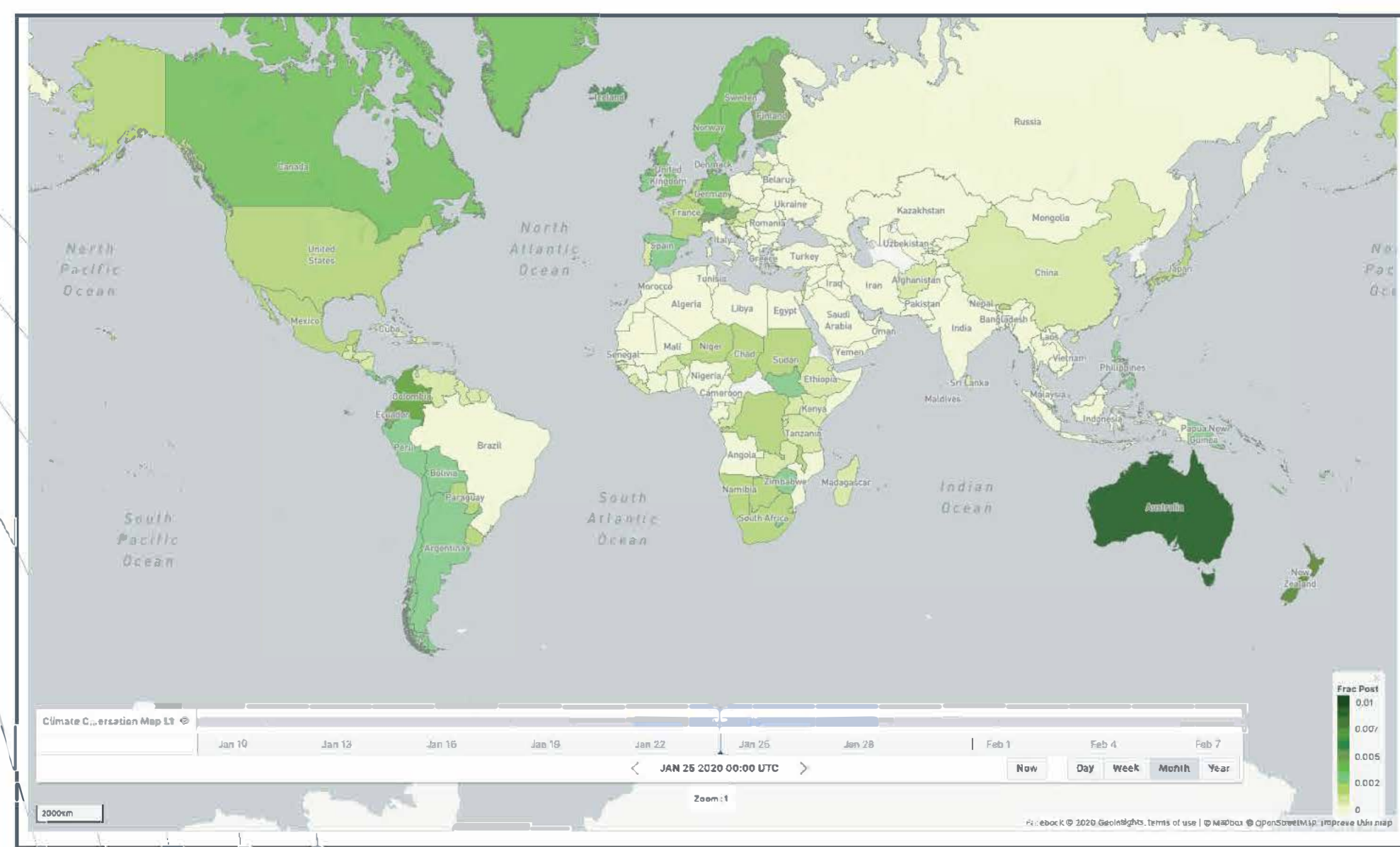
Rapid climate change also strains ecosystems, threatens **biodiversity**, and affects some species' ability to adapt. We will continue to seek opportunities to protect and promote biodiversity by reducing our impact on habitats near our facilities.



FACEBOOK IS DRIVING CLIMATE ACTION THROUGH DATA, SCIENCE, AND PARTNERSHIPS

We create and scale solutions for communities around the world through collaboration, contributions to industry, and learning from the expertise of partners and frameworks. Building on our own sustainability and energy program learnings, we are helping **accelerate the transition to renewable energy**, supporting **standards development** for measuring and setting goals on water stewardship, and driving best practices in **built environment** sustainability.

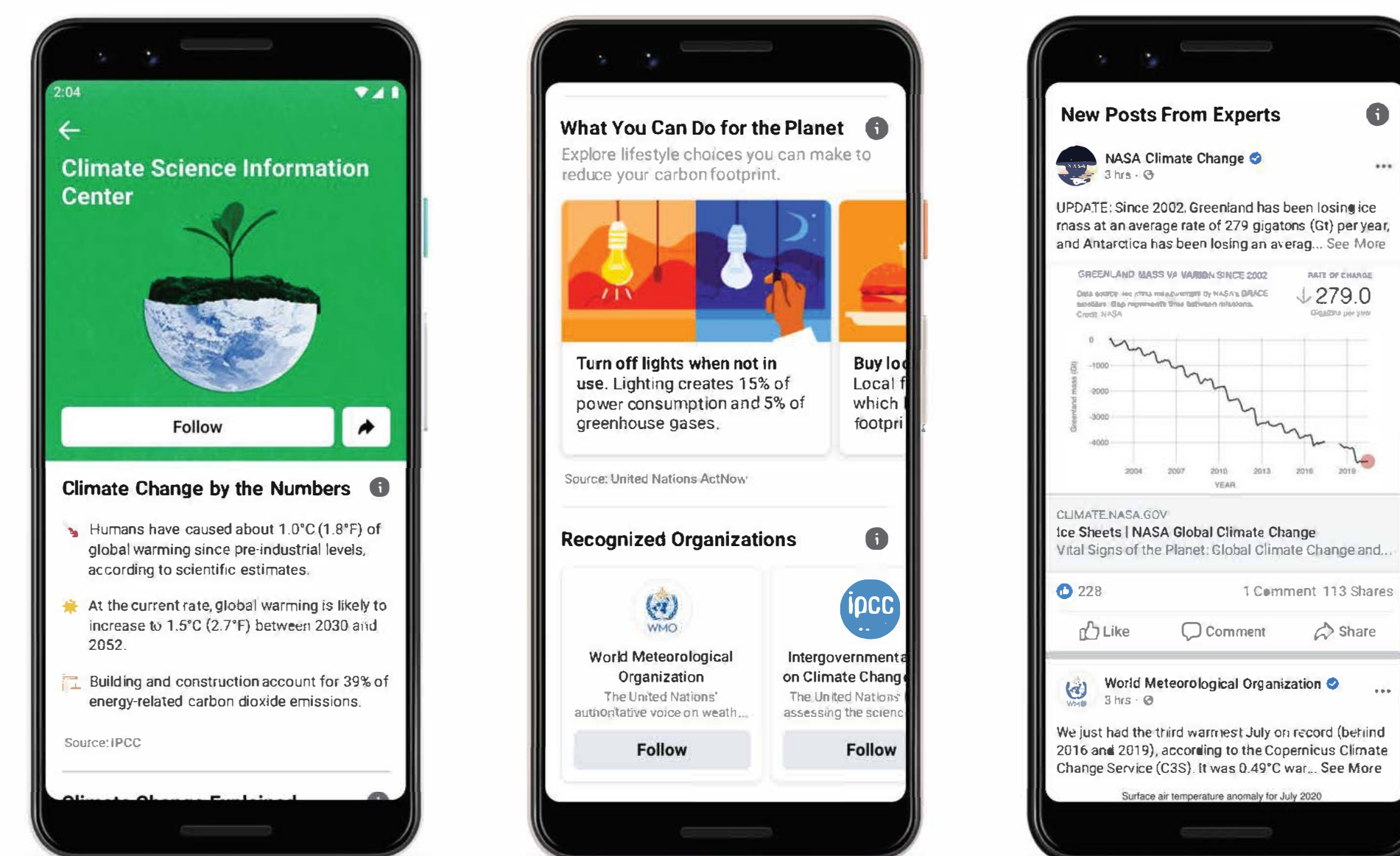
We partner with nonprofits, businesses, and communities to help share information about the impacts of climate change and harness the strength of our platforms to drive climate action. We're inspired to see how people continue to come together around the causes they care about on our platform and to organize for change in their communities. People have raised over \$80M through Facebook Fundraisers to combat climate change and support environmental protection since we introduced charitable giving tools on Facebook in 2015.



Facebook's Interactive Climate Conversation Map

Facebook's **Climate Conversation Map** is a tool that helps partners understand more about how climate conversations ebb and flow throughout the world and over time.

Facebook's **Climate Science Information Center** helps increase access to science-based and dynamic climate information to grow awareness and inspire more people to take action.



Facebook's Climate Science Information Center

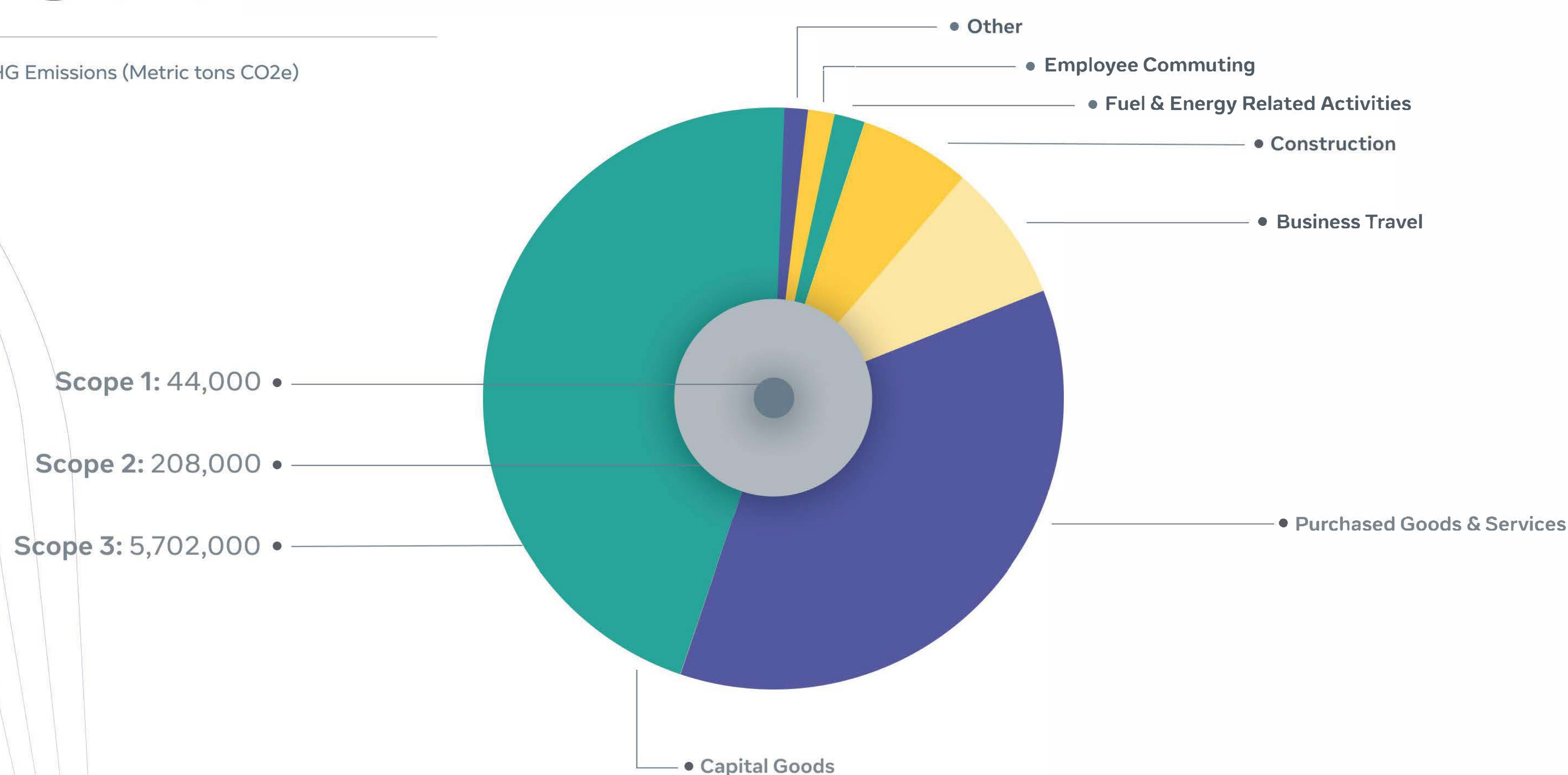
FACEBOOK'S APPROACH TO GREENHOUSE GAS EMISSIONS ACCOUNTING

With an ongoing commitment to transparency, we are expanding our 2019 reporting to include all relevant scope 3 categories for our **GHG emissions**². Facebook's GHG emissions are calculated based on the WRI/WBCSD **Greenhouse Gas Protocol** and have been **verified** by a third party³. Our 2019 market-based scope 1 and 2 emissions totaled 252,000 metric tons of carbon dioxide equivalent (CO2e), while our scope 3 market-based emissions totaled 5.7 million metric tons of CO2e. Our scope 3 emissions were calculated based on environmental economic input output (EEIO) factors, life cycle assessments (LCA), and actual activity data. We will continue to share our GHG emissions annually.

FACEBOOK'S 2019 CARBON FOOTPRINT

6.0M metric tons of CO2e

SCOPE: GHG Emissions (Metric tons CO2e)



² Emissions from users that use Facebook, Instagram, WhatsApp and Messenger are not included in our Scope 3 inventory.

³ We evaluate and improve our greenhouse gas inventory methodology annually.