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We are at a defining moment for the future of our planet and its peoples.

Climate change affects every nation and every person. Droughts, violent storms, sea-level rise and other changes are destabilizing critical ecosystems, undermining economic activity and jeopardizing livelihoods across the globe. The climate is a vital Earth system, that if compromised will put everyone's future prosperity and well-being at risk.

Urgent action is needed to drastically cut greenhouse gas emissions, invest in adaptation and build resilience to the growing impacts of our rapidly warming world.

The next ten years will see another 700 million people added to the global population, more than 1 billion additional middle-class consumers and a 50% increase in economic output.

Shifting to a low-carbon and resilient trajectory will require coordinated, integrated solutions to catalyze transformation of three key economic systems: energy—how we power our homes, offices and industry, and move goods and people from one

place to another; cities—how we live; and food production—how and where we produce food, and what we eat. This will require actions on multiple fronts and at all levels of society.

Based on our quarter century of experience and a wide network of partners, the Global Environment Facility (GEF) is well-placed to support this transformation. Rooted in our role as a financing mechanism of the UNFCCC and other key international agreements, the GEF's resources help catalyze action and direct larger-scale financing flows toward low-carbon and resilient investments. We support partnerships at local, national and regional levels around integrated solutions in areas like energy efficiency, renewable energy, sustainable cities, land degradation, deforestation, food security and resilience.

The newly adopted Sustainable Development Goals (SDGs) recognize that the health of the global commons is essential for a thriving world. A strong climate agreement backed by action on the ground will help us achieve the SDGs. But with the underlying drivers of degradation still at play, our efforts must only intensify.

## Science

Driven by human activities, the global climate is rapidly moving out of the stable band we have enjoyed for the past 10,000 years, testing the limits of planetary boundaries within which human societies have prospered so far.

The scientific consensus for urgent action on climate change is unequivocal. In 2014, the Intergovernmental Panel on Climate Change made clear that the longer we delay in tackling climate change, the higher the risks and costs. The next couple of decades are critical.

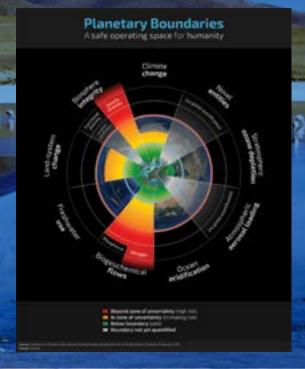
Climate change is a complex challenge that interacts with eight other planetary boundaries, themselves essential to ensure long-term human prosperity.

Therefore, solutions to climate change call for integrated approaches that account for the needs and interconnections between the many environmental dimensions at the local, regional and global levels.

Mitigation actions involve direct reduction of GHG emissions through, for example, the scaling up of integrated urban management, sustainable transport, renewable energy and energy efficiency. But effective mitigation also includes reducing emissions from other sectors, such as land use and forestry, and protecting carbon sinks such as the oceans.

The multi-disciplinary nature of the threats to our climate and to the global environment—and of the solutions needed to counter these threats—is reflected in the mission of the GEF to support a range of key multilateral environmental accords, including the UNFCCC, CBD and UNCCD.

The GEF promotes sustainable development by helping ensure that our societies thrive within safe planetary boundary limits, and critically by avoiding disruptive changes to climate on our planet.



## Energy

Consumption of fossil fuels for power, heating and transport has contributed 80% of increased greenhouse gas emissions since 1970. Moreover, between now and 2035, global energy demand is projected to grow by more than 50%, and even faster in developing countries. Meanwhile, 1.4 billion people globally still lack adequate energy services and rely on traditional biomass to meet their basic energy needs, leading to environmental degradation and premature deaths for millions of people, especially women and children.

A low-carbon future requires a fundamental transformation in global energy systems. Thanks to technology advancements and cost-reductions, some long-standing barriers to adoption of environmentally sound technologies are disappearing quickly. Nevertheless, much more needs to be done to accelerate the transition.

Key priorities include (i) creating enabling policy and regulatory environments that promote sustainable energy; (ii) ensuring adequate financing and risk mitigation for innovative investments; and (iii) providing capacity building for both public and private sectors to accelerate the shift to a low-carbon trajectory.

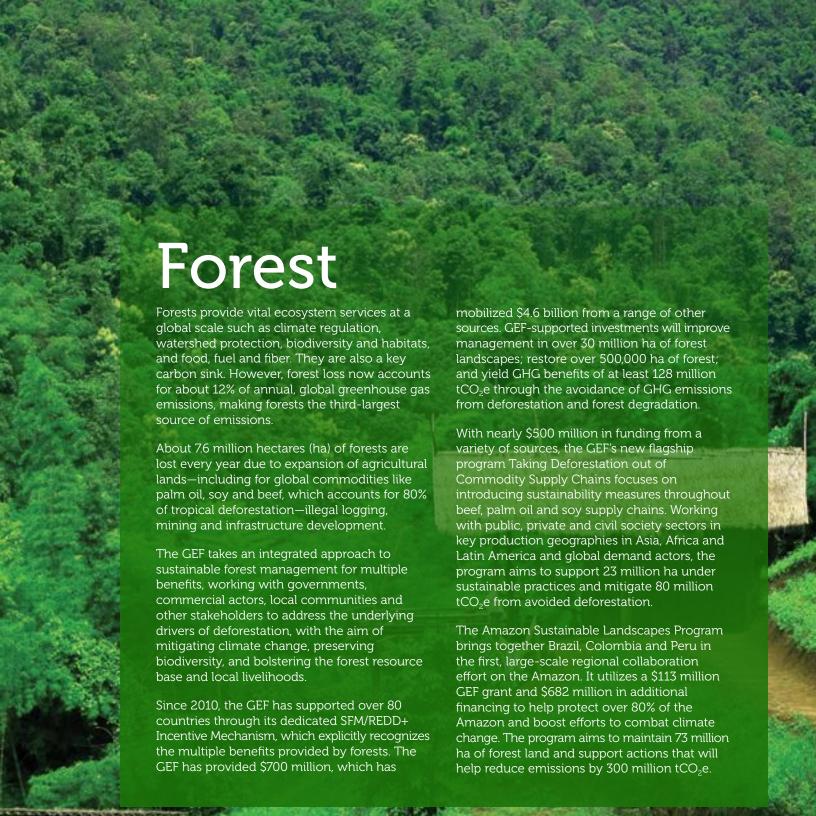
During the past quarter of a century, the GEF has provided \$2.4 billion and leveraged \$25 billion from other financing sources in support for expansion of renewable energy supply and improvements in energy efficiency.

In renewable energy, the GEF has been supporting the demonstration of pre-commercial technologies, such as concentrating solar power and geothermal energy. In terms of policy, the GEF has helped introduce feed-in tariffs, reverse auctions and other innovative market-based mechanisms and financial instruments to accelerate renewable energy investments.

In energy efficiency, the GEF has helped introduce standards for consumer appliances and equipment, such as lighting, air conditioners and motors, and energy efficiency of buildings. The GEF has also helped transform national energy systems through the introduction of energy service companies, and has enhanced the capacity of thousands of small and medium-sized enterprises to adopt energy-efficient practices. And the GEF's catalytic investment in transport has helped increase overall energy efficiency.

Overall, the GEF's energy investments have reduced emissions by 1 billion  $tCO_2e$ , equal to annual emissions of 200 million cars.









Climate change is a major obstacle to sustainable development.

Even with immediate, ambitious mitigation efforts, the global climate will change and introduce additional risk to human well-being, food and water security, public health and important global ecosystems. The impacts on weather patterns, water resources, crop yields and marine ecosystems are already disproportionately affecting the poor.

Therefore, achieving and sustaining our collective development goals necessitates a dramatic acceleration and scaling up of adaptation. It also requires significantly improved capacity at all levels of decision-making to monitor, review and strengthen adaptation strategies and measures as circumstances change.

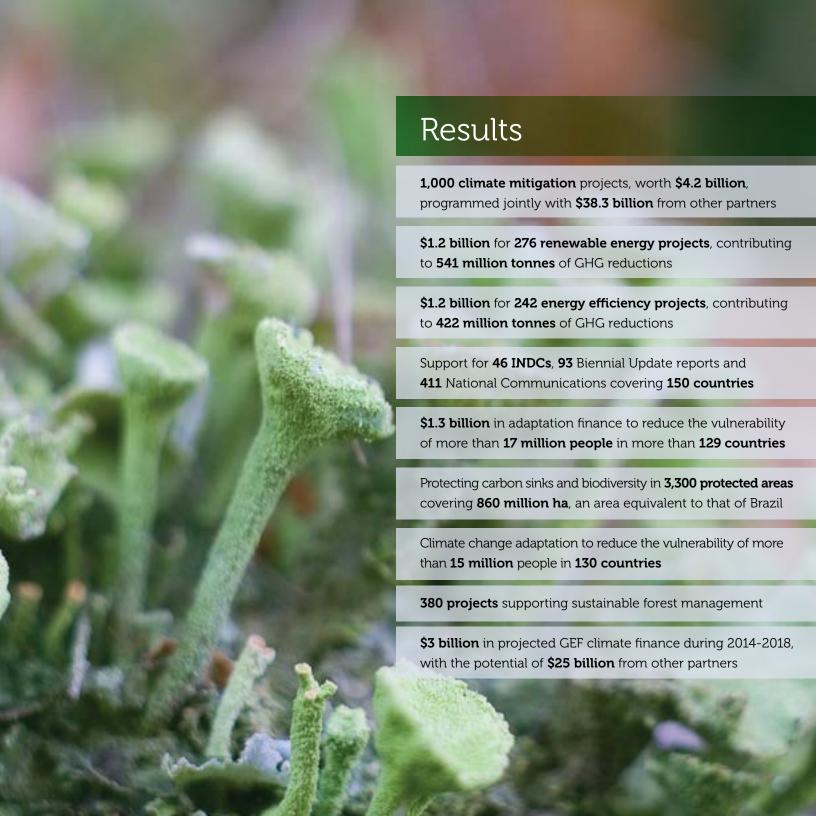
Through its Adaptation Program, the GEF works to increase resilience to the adverse effects of climate change, with a particular focus on (i) integration across adaptation and global environmental benefits and, broadly, efforts to build more resilient human-environment systems; (ii) innovation in scalable approaches to adaptation; and (iii) core institutional capacity to enable continuous, medium- and long-term adaptation action at the national and sub-national levels.

Since 2001, the GEF—through the Least Developed Countries Fund (LDCF), the Special Climate Change Fund (SCCF) and the Strategic Priority on Adaptation program—has provided \$1.3 billion in grant financing and mobilized \$7 billion from other sources for 320 adaptation projects in 129 countries, including all Least Developed Countries and 33 Small Island Developing States. These projects are expected to directly reduce the vulnerability of 17 million people.

The GEF is well placed to finance cost-effective, ecosystem-based approaches to adaptation that also contribute to mitigation and other global environmental benefits. In Colombia, for example, a SCCF project is restoring 4,250 ha of upper watersheds to directly reduce the vulnerability of some 22,000 households and contribute toward a more stable water supply for 7 million people in the Bogota metropolitan area.

Adaptation has to become integral to all development. The GEF supports this transition by helping countries advance their national adaptation plan (NAP) processes. The GEF also has a global \$460 million portfolio of investments in improved climate services and early-warning systems, totaling some 90 projects in 66 countries.







## About the GEF

The Global Environment Facility (GEF) was established on the eve of the 1992 Rio Earth Summit to help tackle our planet's most pressing environmental problems. Since then, the GEF has provided \$14.5 billion in grants and mobilized an additional \$75.4 billion in cofinancing for 3946 projects. Today, the GEF is an international partnership of 183 countries, international institutions, civil society organizations and the private sector that addresses global environmental issues.

The GEF's 18 implementing partners are Asian Development Bank (ADB), African Development Bank (AfDB), Development Bank of Latin America (CAF), Conservation International (CI), Development Bank of Southern Africa (DBSA), European Bank for Reconstruction and Development (EBRD), Foreign Economic Cooperation Office—Ministry of Environmental Protection of China (FECO), Food and Agriculture Organization of the United Nations (FAO), Fundo Brasileiro para a Biodiversidade (FUNBIO), Inter-American Development Bank (IDB), International Fund for Agricultural Development (IFAD), International Union for Conservation of Nature (IUCN), United Nations Development Programme (UNDP), United Nations Environment Programme (UNEP), United Nations Industrial Development Organization (UNIDO), West African Development Bank (BOAD), World Bank Group (WBG) and World Wildlife Fund U.S. (WWF-US).

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