



# 2023

Sustainable Logistics Report



# Our Strategy

## FedEx Global Citizenship Strategy

FedEx Global Citizenship is grounded in our culture values and aligns our resources and expertise to social and environmental issues impacting our business.



### Sustainable Logistics

Reaching our FedEx enterprise goal to achieve carbon neutral operations by 2040 will take innovation and collective action. To help deliver a more sustainable future, we support sustainable transportation in cities, research and technology to scale climate solutions, and conservation in local communities.



### Delivering for Good

Mobilizing our company’s passionate team members, thousands of planes and vehicles, and best-in-class logistics expertise to support humanitarian relief, respond to disasters, and help nonprofits make complex shipments to benefit our communities.



### Global Entrepreneurship

Equipping entrepreneurs from all backgrounds with the training, connections, and capital they need to compete in the global marketplace more effectively, expand their customer base, generate new jobs, and create a better life for themselves and their communities.



### Diversity, Equity, & Inclusion

We believe every individual, from every background and ability, should have access to opportunity. We support programs offering education, workforce development, cultural awareness, and belonging to create more equitable and inclusive communities.



### Community Grants & Service

Service to our local communities is an essential part of our culture. We volunteer our time, lend our expertise, and provide donations to support local needs including those in our headquarters city of Memphis, TN. Whether we’re packing Purple Totes, delivering winter coats, or writing special notes, our efforts build community ties, connect team members, and bring our company values to life.

# Sustainable Logistics

## Our opportunity



The number of cars on the road is likely to double by 2050<sup>1</sup>



48% of urban populations lack access to public transport<sup>2</sup>



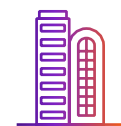
Using a bike instead of a car cuts CO<sub>2</sub> by 75%; a bus reduces CO<sub>2</sub> by 43%<sup>3</sup>



New urban trees have the potential to remove 70 million metric tons of CO<sub>2</sub> from the atmosphere<sup>4</sup>

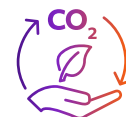
## Our strategy

Reaching our FedEx enterprise goal to achieve carbon neutral global operations by 2040 will take innovation and collective action. To help deliver a more sustainable future, FedEx supports global initiatives with academic and research institutions, nongovernmental organizations, and conservation groups around the world. From the \$100 million donation to help establish the Yale Center for Natural Carbon Capture to helping launch the world's first electric vehicle data platform, we are working with communities around the world to reduce pollution, congestion, and CO<sub>2</sub> emissions.



### Invest in Sustainable Cities

Moving people and goods more safely and sustainably.



### Accelerate Climate Solutions

Supporting carbon capture research and clean tech to scale promising solutions.



### Inspire Conservation

Engaging team members to protect the environment in their hometown.

<sup>1</sup>"Sustainable Cities and Communities." UN Stats. [unstats.un.org/sdgs/report/2022/Goal-11](https://unstats.un.org/sdgs/report/2022/Goal-11)

<sup>2</sup>"Sustainable Cities and Communities." UN Stats. [unstats.un.org/sdgs/report/2022/Goal-11](https://unstats.un.org/sdgs/report/2022/Goal-11)

<sup>3</sup>"Which Form of Transport Has the Smallest Carbon Footprint?" Our World in Data. - [ourworldindata.org/travel-carbon-footprint](https://ourworldindata.org/travel-carbon-footprint)

<sup>4</sup>"Urban Forestry." One Tree Planted. [onetreepanted.org/products/urban-forestry](https://onetreepanted.org/products/urban-forestry)

## Sustainable Cities



### More than a decade of reimagining how cities move

Since 2010, FedEx and the World Resources Institute (WRI) have been working to transform major public transportation systems across the world. Our Mobility and Accessibility Program (MAP) is directly responding to growing congestion, pollution, and sprawl in megacities by reducing carbon emissions, improving safety, and providing reliable, affordable transportation. Beyond environmental benefit, this work promotes mobility and accessibility, enabling people to seize opportunities in jobs, education, and the marketplace.

“Through MAP, FedEx has enabled WRI – and scores of cities – to go farther and faster on one of the biggest issues facing our world.

**Rogier van den Berg**  
Global Director WRI Ross Center for Sustainable Cities



### FedEx and WRI: Ten years of impact

- Benefited **18 million people** through projects improving mass transport, such as expanding bus rapid transit and quality service improvements
- Helped cities in the developing world prevent more than **1 million metric tons of carbon emissions**
- Trained more than **10,000 bus operators** on “Safety First” principles
- Collaborated with transport officials, policy makers, and governments in **68 cities** and **8 countries**
- Helped create game-changing transport

innovations including Mexico City’s bus rapid transit (BRT) routes, Beijing’s zero emission zone, and India’s new national plan to purchase **50,000 e-buses**

- Engaged more than **100 FedEx team members** to share knowledge of electric vehicles, asset management, and Quality Driven Management with WRI teams
- Influenced public investment in transportation operations and infrastructure on **3 continents**



U.S. Chamber of Commerce Foundation

### Teaming up to transform public transit

FedEx was a finalist for the U.S. Chamber of Commerce Foundation’s 2023 Citizens Awards Best Sustainability Program, recognized for its work with the World Resources Institute on reducing congestion and CO<sub>2</sub> in growing cities. [Learn More](#)

## Sustainable Cities

### New ideas for smart and sustainable mobility

In 2022, FedEx supported the EIT Climate-KIC Sustainable Cities Mobility Challenge to launch climate-friendly transportation projects in European cities. In 2023, four cities began implementing sustainable mobility solutions aiming to transform urban living and work. Explore the winning cities' projects below.



**Olot, Spain:** As biking becomes an increasingly popular form of mobility, Olot wants to encourage more residents to trade four wheels for two. The winning project is building a network of enclosed, secure bike parking locations where cyclists can park safely for several hours without worry about theft.

[Learn More](#)



**Karasu, Turkey:** A popular summer destination, Karasu faces increased congestion with seasonal visitors. The winning green mobility project aims to connect coastal bike paths to the city center, creating safer spaces for walkers, cyclists, and scooter-riders through dedicated bike lanes and infrastructure improvements. [Learn More](#)



**Hackney, UK:** Hackney is a densely populated and culturally diverse part of London, facing high levels of inequality and air pollution. The winning project awarded 14 small businesses with a grant to purchase a cargo bike to make deliveries, carry out client visits, and grow their enterprises. [Learn More](#)



**Espoo, Finland:** This city of over 305,000 residents blends urban life with nature, making it ideal for cycling. Yet, immigrants here face barriers to this mode of transport. The winning green mobility project promotes social inclusion and gender equality by offering free workshops that teach cycling skills and give participants increased freedom and mobility. [Learn More](#)



**Learn more about each project winner and how FedEx and EIT Climate-KIC are working together to transform mobility for a more sustainable future. [Read the 2023 Sustainable Cities Mobility Challenge Report.](#)**

Sponsored by **FedEx**



## Sparking an electric vehicle revolution

As the demand for electric vehicles (EVs) grows, businesses, communities, and governments are rapidly seeking solutions to adapt. With funding from FedEx, **RMI's GridUp tool** predicts energy demands from vehicle electrification, aiding decision-makers in grid planning. The tool provides data to inform where charging infrastructure will be most needed and will include recommendations on ensuring an equitable rollout by predicting EV power needs at the census-block level.

RMI shares GridUp insights via the **Electrification 101** article series sponsored by FedEx and we are piloting the GridUp tool in the Greater Toronto & Hamilton Area through efforts with the Pembina Institute. Read about the pilot [here](#).

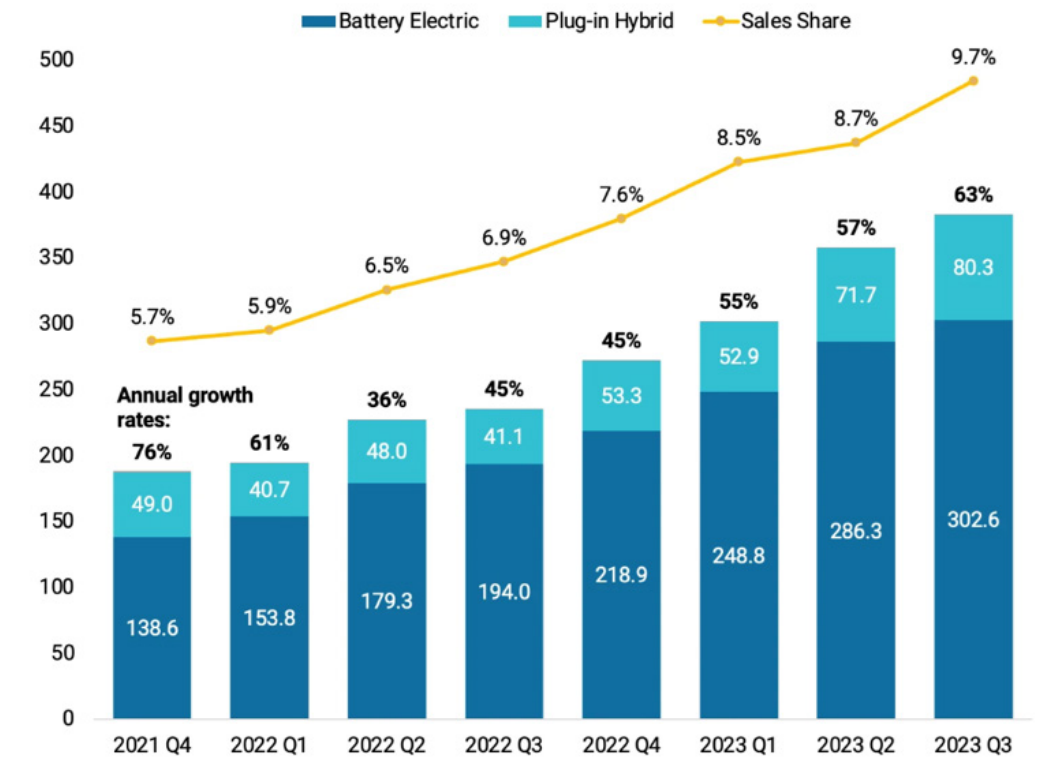
“*In this decisive decade, our efforts to mitigate the effects of climate change and electrify global transportation systems will be critical. We'll need radical collaboration between the private and public sectors and bold companies like FedEx. FedEx demonstrates the proactive role corporations can play in accelerating the transition to a clean, prosperous, and zero-carbon future for all.*

Jon Creyts  
CEO RMI

## Climate Solutions



Quarterly U.S. Battery Electric and Plug-in Hybrid Vehicle Sales  
Thousand vehicles



Data source: Argonne National Laboratory, "Light Duty Electric Drive Vehicles Monthly Sales Updates - Historical Data" <https://www.anl.gov/esia/reference/light-duty-electric-drive-vehicles-monthly-sales-updates-historical-data>  
Accessed November 12, 2023

## Accelerating Climate Innovations

Bringing new climate tech innovations to market can be complex and expensive. Third Derivative (D3), an RMI program supported by FedEx, accelerates climate tech startups with breakthrough ideas through a unique, climate tech accelerator program. Impact to date:

- 198 climate tech startups in the pipeline
- Activated \$1.4B of investment
- 47% are BIPOC founders
- 31% have one female founder



## Powering sustainability through circular logistics

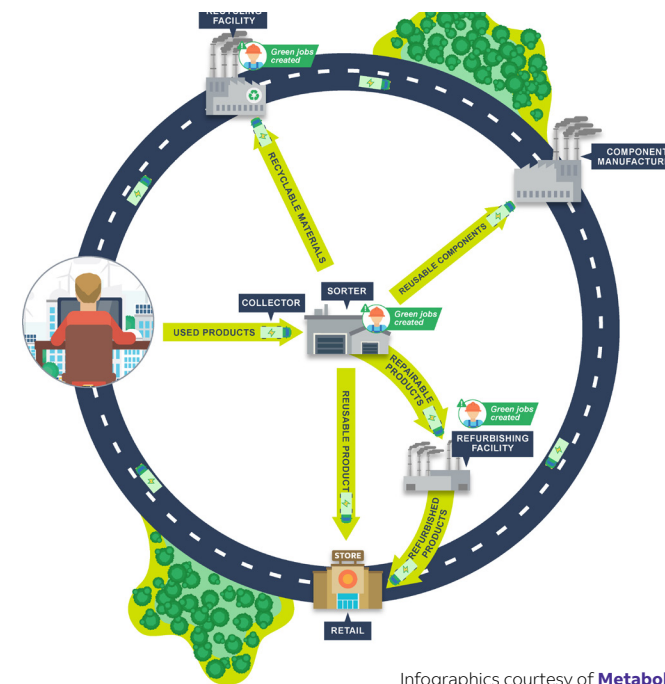
Pyxera Global is addressing the growing issue of electronic waste (e-waste) by leveraging FedEx's logistics expertise. Each year, 50 million tons of e-waste are generated worldwide. To prevent e-waste from ending up in landfills, Pyxera Global designed a pilot program featuring a circular logistics model. This program would enable individuals and businesses in the U.S. to send broken or unused laptops and tablets for recycling free of charge via FedEx. Devices that could be repaired were refurbished, while those beyond repair were dismantled to salvage valuable materials like lithium-ion batteries, essential for electric vehicles.

Informed by the design of the pilot, Pyxera Global released a report intended to serve as a blueprint for the logistics industry to embrace its role in enabling a circular economy that benefits people and the planet. The report, [Powering](#)

[Sustainability through Circular Logistics](#), is built on the premise that transitioning to a circular economy is a crucial step towards achieving a sustainable future.

In Fall 2023, Pyxera Global began testing several opportunities identified in the initial report to evaluate their effectiveness in the marketplace. These findings are part of a July 2024 report, [Optimizing Circular Logistics: A Revisited Approach](#), focusing on key aspects such as certifications, packaging, procedures, and the material volume necessary to ensure the success of a circular logistics program.

FedEx proudly serves as an implementation partner of the Circular Supply Chain Coalition (CSCC), providing infrastructure, services, materials, and resources to help recover materials that might otherwise end up in landfills. [Read more about CSCC here.](#)



Infographics courtesy of [Metabolic](#)

“ The logistics industry plays a crucial role in our economy. The pilot with Pyxera Global explores the role logistics companies can play in the circular economy and help close the loop on electronic materials normally destined or landfill.

**Brandon Tidwell**  
Global Citizenship Principal, FedEx Express

## Climate Solutions



### The future of natural carbon capture

Planet Earth is one of the most effective carbon capture mechanisms ever created. If we can harness the power of nature and better use Earth's forests, rocks, soil, and oceans to store greenhouse gases, we will have one more tool to help us address climate change.

To accelerate the science needed to find solutions that can permanently capture and store carbon, FedEx committed \$100 million to help establish the Yale Center for Natural Carbon Capture. Now in its third year, the Center is researching carbon sequestration with the goal of developing natural, long-term carbon removal solutions across biological, geological, and industrial mediums.



“Addressing climate change is a complex challenge that demands urgent action, and natural carbon capture strategies will be one key part of that action. Through the creation of the Yale Center for Natural Carbon Capture, we aim to develop measurable carbon capture strategies to help offset carbon emissions globally.”

**Dr. Ingrid C. “Indy” Burke**  
Dean of the Yale School of the Environment

Since 2021, Yale has recruited four globally recognized faculty members and capitalized on the cutting-edge research of over two dozen existing Yale faculty, giving scientists the resources and funding needed to find lasting natural solutions. Yale has already disseminated research findings that could one day lead to the reduction of gigatons of carbon each year.

### What is natural carbon capture?

Carbon capture, or carbon dioxide removal, is any activity initiated by humans that removes CO<sub>2</sub> from the atmosphere and durably stores it in geological, terrestrial, or ocean reservoirs, or in products.

Natural carbon capture utilizes and takes inspiration from nature's biological and geological processes – carbon cycles in forests, rocks, soil, oceans, and other natural systems – to absorb and store carbon dioxide from the atmosphere.

### Learn more about the Yale Center for Natural Carbon Capture



## 100 million

A \$100 million gift from FedEx will help develop natural solutions for reducing atmospheric carbon.



## Inspiring Conservation

### Introducing Picture Proof of Planting

In 2023, FedEx launched Picture Proof of Planting to engage team members in conservation efforts worldwide. Over 300 employees participated in tree plantings across various cities, addressing urban heat, promoting health, and restoring ecosystems. FedEx is investing over \$2 million in 50 urban conservation projects with One Tree Planted, the Arbor Day Foundation, and National Fish and Wildlife Foundation through May 2024.



**Canada:** FedEx Montreal, in collaboration with GRAME and One Tree Planted, launched the 2023 Picture Proof of Planting campaign at Paul-Jarry primary school. By removing asphalt and planting trees, the project enhanced the area's aesthetics, diversity, and water management.



**Colombia:** FedEx team members joined Fundación Red de Árboles to plant native trees along the Rionegro River near Medellín Airport. Volunteers planted 140 trees, benefiting water conservation, urban cooling, and community well-being in the Antioquia region.

**Singapore:** FedEx worked with the Arbor Day Foundation and Garden City Fund to plant 80 trees in Singapore. This project contributes to Singapore's OneMillionTrees movement, dedicated to enhancing urban environments and building resilience against climate change.



**Turkey:** FedEx Istanbul organized its first tree planting activity with the Arbor Day Foundation and Aegean Forest Foundation. Volunteers planted 41 trees, and FedEx funded 7,000 more saplings. This initiative boosts sustainability and supports socioeconomic development by employing local villagers – to maintain the trees for the next three years to ensure their survival.

**Spain:** FedEx team members gathered near Madrid to help plant 600 trees, shrubs, and plants along the Arroyo Meaques River. Collaborating with the Arbor Day Foundation and Arbocity, the project aims to revive the degraded area, fostering social and environmental well-being.

“ It was a feeling of freedom, friendship, solidarity and commitment to take care of our planet thanks to FedEx Cares.

**José Félix Gómez**  
Worldwide Sales Local Manager, Spain



### Celebrating 15 years with NFWF

FedEx and the National Fish and Wildlife Foundation have worked together since 2009, supporting community-based conservation projects in U.S. cities. Over 15 years, we've engaged 5,080 FedEx volunteers along with 735,000 community members to restore 5,130 acres of habitat and plant 388,000 trees to restore environmental health in urban areas.

[Learn More](#)



# Learn More



## World Resources Institute

The World Resources Institute (WRI) Ross Center for Sustainable Cities helps create resilient, inclusive, low-carbon places that are better for people and the planet.

FedEx has supported WRI for ten years to improve the quality of public transportation in Brazil, India, China and Mexico. To date, this global collaboration has improved transportation systems across nearly 70 cities and three continents, directly impacting 18 million people and preventing over 1 million metric tons of carbon emissions.

[Learn More](#)



## EIT Climate KIC

EIT Climate-KIC is Europe's leading climate innovation agency and community, using a systems approach to shape innovation to support cities, regions, countries and industries meet their climate ambitions.

FedEx and EIT Climate-KIC created the Sustainable Cities Mobility Challenge for European cities. Applicants request funding to implement solutions that accelerate the transition towards cleaner, sustainable and inclusive mobility. Grants of up to \$70,000 helped winners expand cargo bike use, install safe cycling storage, offer cycling courses for marginalized groups, and create safer corridors for walking, wheeling and cycling.

[Learn More](#)

## Yale

### Yale

FedEx committed \$100 million to help establish the Yale Center for Natural Carbon Capture, which will develop natural, long-term carbon removal solutions across biological, geological, and industrial mediums.

The Center brings new research and researchers to the Yale community and funds research projects, workshops, and fellowships as well as outreach and training for the next generation of scientists dedicated to combating climate change.

[Learn More](#)



### RMI

RMI is working toward a clean, prosperous and zero-carbon future by transforming how energy is produced and used. In the transportation industry, they have a vision to catalyze an electric, connected, and equitable transportation future by creating zero-emission freight, electrifying passenger fleets, and building EV charging infrastructure.

FedEx supports RMI's Third Derivative and GridUp programs to help bring innovative zero-emission transport technology to market, and to scale charging infrastructure and prepare grid operators to meet growing EV needs.

[Learn More](#)



## Pyxera Global

Pyxera Global collaborates with local communities to promote regenerative business models and build resilient communities.

FedEx and Pyxera teamed up to test a circular logistics model, allowing consumers to send electronic devices like laptops for recycling with free shipping from FedEx. These donated items were either repaired or dismantled for parts, many of which are often used in the lithium-ion batteries for electric vehicles.

[Learn More](#)



## Pembina Institute

The Pembina Institute's mission is to advance a prosperous clean energy future for Canada through solutions that support communities, the economy and a safe climate.

FedEx is helping Pembina accelerate the transition from gas- and diesel-powered fleets to zero-emission road freight with the launch of the Grid Readiness Project. The Grid Readiness Project will pilot RMI's GridUp tool in the Greater Toronto and Hamilton Area to determine optimal locations for commercial freight charging and refueling stations and their anticipated energy loads.

[Learn More](#)



## Arbor Day Foundation

Arbor Day Foundation is world's largest member nonprofit dedicated to planting trees. The organization seeks to plant 500 million new trees around the world by 2027.

Arbor Day Foundation is one of three central partners in the FedEx Picture Proof of Planting campaign, a \$2 million commitment that engages FedEx team members to support conservation projects in their hometowns. Picture Proof of Planting projects help reduce urban heat, supports the physical and mental health of residents, provides valuable access to greenspaces, and rebalances the ecosystem for wildlife.

[Learn More](#)



## One Tree Planted

One Tree Planted is a global reforestation organization that works at the intersection of environmental sustainability, economic development, and support for local communities.

FedEx supports One Tree Planted to boost tree equity in urban neighborhoods as a way to fight pollution, reduce extreme heat, and provide health benefits to local residents. One Tree Planted is one of three central partners in the FedEx Picture Proof of Planting campaign, a \$2 million commitment that engages FedEx team members to support conservation projects in their hometowns.

[Learn More](#)



## National Fish and Wildlife Foundation

National Fish and Wildlife Foundation (NFWF) works in all 50 U.S. states and territories to protect and restore our nation's fish, wildlife, plants and habitats for current and future generations.

FedEx has supported NFWF for 15 years with cash grants and thousands of volunteer hours. NFWF is one of three central partners in the FedEx Picture Proof of Planting campaign, a \$2 million commitment that engages FedEx team members to support conservation projects in their hometowns.

[Learn More](#)

