



**marta** 



# sustainability update

# 2022

journey toward a brighter, greener,  
and resilient tomorrow

# a message from MARTA'S director of sustainability

MARTA's public transit services are an inherently sustainable solution that reduces the number of cars on the road in the Atlanta region, resulting in fewer greenhouse gases and air emissions. Over the past year, we have integrated Environmental, Social, and Governance (ESG) principles into our work to further strengthen our commitment to sustainability. While we've focused on environmental excellence in our previous work, we're now ramping up our efforts to include social and governance components. This Sustainability Report is a testament to our progress towards each ESG principle since our calendar year 2021 Sustainability Report.

Additionally, with the formal establishment of the Office of Sustainability in 2022, our sustainability work and goals can become more centralized and established throughout the Authority.

Our upcoming ESG efforts include our railcar replacement project, in which we will replace our entire heavy rail fleet over the next several years with 224 next-generation rail cars that will use new technology to advance safety and security for customers and employees with the added benefit of expanding comfort and convenience. We will also be focused on growing and strengthening the new Office of Sustainability by establishing policies, conducting climate vulnerability and renewable feasibility studies, developing a metric tracking dashboard, and creating plans in alignment with ESG principles.

Join us on this journey toward a brighter, greener, and resilient tomorrow!



Richard Thomas,  
Director of Sustainability



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# sustainability

## is inherent to our daily operations

### Introduction

The Metropolitan Atlanta Rapid Transit Authority (MARTA) provides bus, heavy rail, light rail, and paratransit service to the Atlanta Metropolitan Region. By providing public transit options to over 2 million people and removing single-occupancy vehicles from our congested roads, sustainability is inherent to our daily operations. Annually, MARTA prevents over 2 million metric tons of greenhouse gases (in carbon dioxide equivalent or CO<sub>2</sub>e) on average from being released into the atmosphere as a result of mobility mode shift and the advancement of changing land use.

Ridership and MARTA projects have been greatly impacted by the coronavirus pandemic (COVID-19) over the past several years. However, in 2022 we did start to see an uptick in ridership with an increase of 22% in our passenger miles traveled from 2021. Throughout the pandemic, MARTA has provided access to COVID-19 testing, distributed over a million masks to customers, and enhanced cleaning practices on buses, trains, and in facilities. These safety features allowed MARTA to continue providing essential public transit during an extremely difficult time.

**2M+** people  
provided transit options in Metro Atlanta

**2M+** metric tons  
of greenhouse gases prevented from being released annually

**22%**   
increase in passenger miles, 2021-2022



MARTA uses ESG frameworks and standards to guide our sustainable policy and program development. ESG stands for Environmental, Social, and Governance. ESG was derived to provide quantifiable methods based on set criteria to evaluate the sustainability practices and commitments of publicly traded companies. Although ESG was originally derived to inform investors, various stakeholders often will turn to ESG concepts to evaluate the practices and commitments of all types of organizations. ESG removes the ambiguity around the term sustainability by using a set of specific criteria to define environmental, social, and governance systems as sustainable. Drivers to focus on ESG include policy and regulation, funding, industry standards, partnerships, and community engagement.

ESG has always been and will continue to be a priority for MARTA, ESG is embedded on everything we do from our operations, fleet, initiatives and programs to our policies and management practices. MARTA will continue to work to further enhance our ESG program, and that will include the formal evaluation of MARTA's ESG most material topics as well as the evaluation of ESG frameworks that are the most relevant to our company to further exceed the expectations of our stakeholders.

It's important to note that projects featured in this report often fall into more than one ESG category. Throughout this report, you'll see the following icons to indicate which ESG principles apply.

# esg

ESG provides quantifiable methods based on set criteria to evaluate the sustainability practices and commitments of publicly traded companies.



environmental



social



governance

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# environmental



MARTA's **Environmental** initiatives aim to have a net positive impact on the environment, by reducing natural resource dependencies and greenhouse gas (GHG) emissions, improving energy and water efficiency, and decreasing operational waste.



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### Continual Improvement

	2012	CHANGE	2022
<b>GHG EMISSIONS<sup>1</sup></b> (lbs. CO <sub>2</sub> e per VRM)	9.57	<b>-32%</b>	6.48
<b>WATER</b> (gallons per VRM)	0.71	<b>-32%</b>	0.48
<b>WASTE</b> (lbs. per VRM)	0.12	<b>-12%</b>	0.11
<b>ENERGY<sup>2</sup></b> (kBtu per VRM)	27.73	<b>-15%</b>	23.69



### MARTA Awarded for Sustainability Efforts

In July 2022, MARTA was awarded the **Best Sustainability by a Transportation Company** by Commissioner Echols for the 2022 "Energy Matters Awards."



## Electric Bus Fleet

MARTA has procured six new battery-electric buses to replace aging diesel buses in its fleet and is installing the infrastructure to support their operation and maintenance. The New Flyer Xcelsior battery-electric buses combine the benefits of zero emissions with lower operating and maintenance costs. To further progress the growth of the electric bus fleet, MARTA's nationally recognized Sustainability Commitment Program received a federal funding boost with the

award of a \$19.3 million Federal Transit Administration (FTA) Low or No Emissions Grant, which will be used to purchase 25 additional electric buses and charging infrastructure. These buses and charging stations will be housed at MARTA's Perry Bus Garage and service multiple bus routes in west Atlanta, many in disadvantaged communities, and connect to rail stations on both the East/West and North/South Lines.



MARTA has committed to **100% zero-emission buses by 2040!**



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## Green Bonds

For Green Bond Series 2021D, 2021E-1 and 2021E-2, MARTA continues to annually disclose GHGs, waste, and recycling metrics by posting these to the Municipal Securities Rulemaking Board’s Electronic Municipal Market Access (EMMA) system. Also, in 2022 MARTA started planning for the next Green Bond Services 2023A and 2023B. All MARTA’s Green Bonds were certified by Kestrel Verifiers, an independent verifier, by issuing their 2nd Party Opinion.

## Environmental Management System

With Browns Mill and Hamilton Bus Maintenance Facilities being certified in March 2023, eleven MARTA facilities are ISO 14001:2015 certified.

## Renewable Natural Services Contract

MARTA began its transition from diesel buses to Compressed Natural Gas (CNG) buses in 1997. The current MARTA operating fleet consists of 363 CNG buses fueled and operated from three division locations. MARTA currently uses approximately 700,000 MMBtu of CNG.

# 363 CNG buses

In 2022, MARTA persisted towards its goal of reducing its energy costs while promoting greenhouse gas emission reduction and maintaining the highest possible degree of reliability and quality of its natural gas. For this purpose, MARTA established a Renewable Natural Gas Revenue Sharing Program utilizing the Environmental Protection Agency RIN (Renewable Identification Number) program for biofuels. This program began in July 2022 and has brought in over \$450,000 in revenue while promoting the use of renewable energy.





## Recycling

MARTA has recycled over 8,000 tons of material since 2012 including scrap metal, paper, cardboard, batteries, tires, used oil, electronic waste, lamps, halon, and more through various vendors in the Atlanta region. MARTA also sends tires back to be retreaded therefore reusing the materials on a monthly basis. Annually, MARTA diverts between 25 to 30% of its waste from landfills through these recycling and reuse programs.



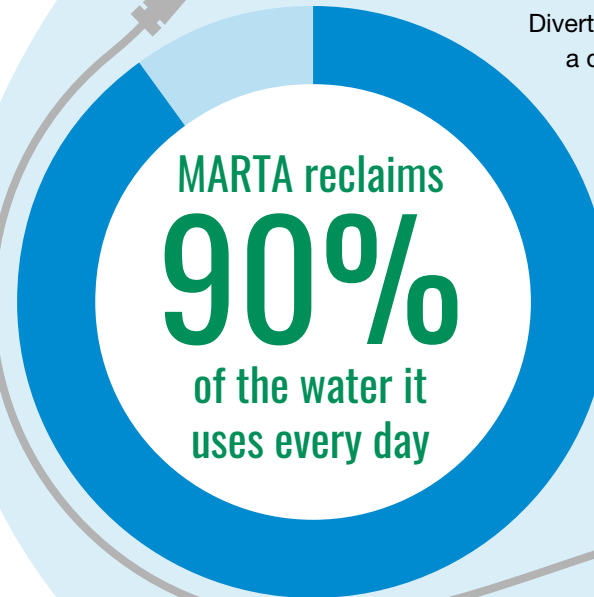
MARTA diverts  
**25-30%**  
of its waste from landfills annually

One capital program where recycling has been prioritized is the 10-year-long Elevator and Escalator Rehabilitation Program, which is an effort to modernize 111 elevators and 116 escalators in 38 stations. In an effort to divert waste from the landfill, MARTA began recycling the metal and oil waste created during rehabilitation. Since 2020, MARTA has recycled a total of 223 tons of metal and 32 tons of oil during this project. This is in addition to the 1,675 tons of scrap metal and 1,743 tons of used oil that MARTA has recycled since 2012 from regular operations.

## Water Diversion Program Expansion

MARTA reclaims 90% of the water we use every day. This includes the 200 gallons used to wash a single bus and the 1,500 gallons used to wash a six-car train. MARTA's water reuse system saves MARTA an estimated 3,500,000 gallons of water each year that would otherwise be drawn from the region's potable water system.

MARTA also engages in the City of Atlanta Diverted Water Program which offers a discount for MARTA's water service. This program is being expanded to other locations with the goal to increase water diversion and savings to MARTA even more. MARTA has saved over \$720,000 since the program began in November 2014.





Planned Park Image from Finding the Flint / Conservation Fund

## Finding the Flint & Conservation Fund Partnership

The Flint River is Georgia's second largest and flows for 344 miles (including 1.5 miles under Hartsfield-Jackson Atlanta International Airport), providing water to farms, a home to wildlife, drinking water and eventually merging into the Chattahoochee River near the Florida Panhandle. Years of urban development and drought have threatened the river.

Finding the Flint is a Conservation group dedicated to restoring the river's health and reconnecting the Flint through a system of trails and parks from the headwaters down to the southside of the Airport while creating a destination for the community. Keeping the river

healthy begins at the headwaters which are located on MARTA Parcel C4181F and will therefore become the initiation point for the trail system. In 2021, MARTA's Board approved the sale of the property in the Cities of College Park and East Point which contain the headwaters of the Flint River. During 2022, MARTA worked with the Conservation Fund and Cities to advance this sale transaction while funds were being raised for the purchase of the land. The transaction is expected to close before year end 2023. By partnering with Finding the Flint, MARTA will join a long list of public and private stakeholders dedicated to saving this critical natural resource.

Finding  
the Flint



Keeping the river healthy  
begins at the headwaters located on  
MARTA Parcel C4181F  
and will become the initiation point  
for the trail system.

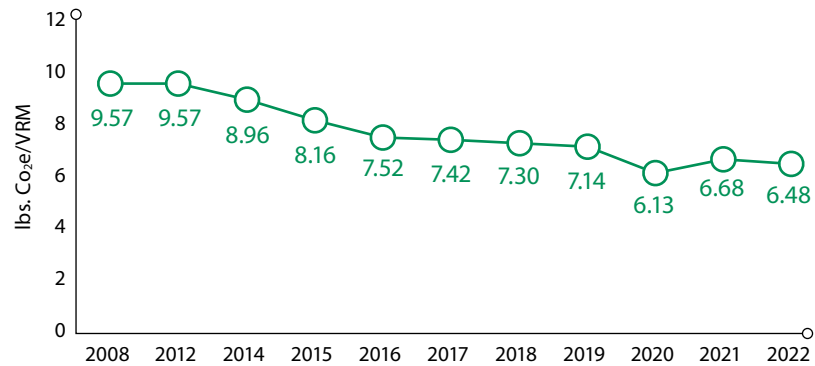
## Greenhouse Gas Reductions

The Intergovernmental Panel on Climate Change (IPCC) states that human activities, primarily through GHG emissions, unequivocally cause global warming. The recent IPCC report release advises that Green House Gas (GHG) emissions must be reduced significantly moving forward to limit the future warming effect.<sup>3</sup> MARTA is actively doing its part to both reduce emissions in its own operations, as well as expanding services to displace single-occupancy vehicle emissions across the Atlanta region.

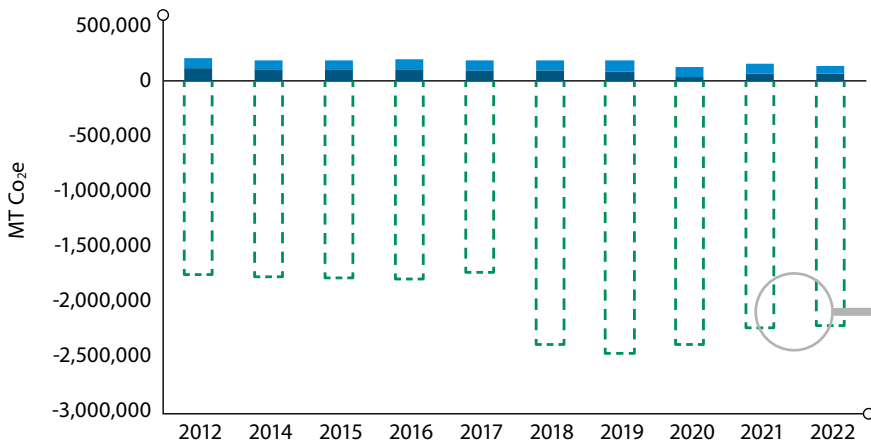
MARTA's GHG inventory includes emissions from revenue and non-revenue mobile sources, as well as stationary emissions from facilities and offices.<sup>4</sup> GHG intensity based on Vehicle Revenue Miles (VRM) represents how GHG emissions change when considering MARTA's continuation of service during the COVID-19 pandemic and expansion of transit services over time. MARTA's overall GHG per VRM slightly decreased from 2021 to 2022 by 3% and decreased from 2008 to 2022 by 32%. This shows that over time MARTA has become more efficient with decreased emissions and VRM.

## over time, MARTA has become more efficient with decreased emissions and VRM

Change in CO<sub>2</sub>e Emissions Intensity 2008–2022






Overview of Emissions and Emissions Displaced by MARTA 2012–2022



displaced  
**2,205,480**  
MT CO<sub>2</sub>e

In Calendar Year 2022 MARTA's services in the Atlanta region resulted in 140,727 MT CO<sub>2</sub>e emissions; however, due to MARTA's influence on mode shift from individual vehicles to mass transit as well as land use effect<sup>5</sup> on the Atlanta region, MARTA displaced 2,205,480 MT CO<sub>2</sub>e. As such, MARTA has had an overall net positive impact on the Atlanta region by decreasing regional transportation-related emissions by more than 2 million MT CO<sub>2</sub>e.

-  Scope 1 (Direct) Emissions
-  Scope 2 (Indirect) Emissions
-  Total Displaced Emissions



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# social





**Social** programs at MARTA seek to improve the communities in which we live, work, and operate – while also supporting our employees and customers. For example, social initiatives include the improvement and transformation of MARTA stations and stops to better serve the community and their needs. This also includes minimizing impacts and distributing benefits across communities with a focus on environmental justice and social equity.



### MARTA Market

MARTA completed its seventh season of the MARTA Market (formerly known as the Fresh MARTA Market) in 2022. This program provides farm stands right inside our stations and expanded from five to seven market locations last year. The markets serve multiple areas with limited food access. Each stand operates one-day per week, providing fresh produce to MARTA customers from Tuesday to Friday at a different station each day. The goal is simple: help get healthy, fresh food into places where people already are.



This innovative food access solution is a partnership between MARTA and the Community Farmers Markets along with community partners Atlanta Community Food Bank, Open Hand and Wholesome Wave Georgia. The MARTA Market sources locally grown produce from the farmers affiliated with Community Farmers Markets, as well as several local food hubs. This gives local farmers the opportunity to sell more produce to consumers that might not otherwise make it to a farmers market. This produce is complemented by non-local produce so that MARTA Market patrons can do a large amount of their fresh food shopping on their way to or from home.





## Global Growers Network

MARTA partnered with the Global Growers Network in 2022 to establish a farm near the Indian Creek rail station in DeKalb County. Produce from the farm will be available at MARTA Markets, which expanded into DeKalb County this year at Kensington and Doraville rail stations.

# half-acre farm at Indian Creek

completed in 2Q2023

GLOBAL  GROWERS

The half-acre farm at Indian Creek was completed in 2Q2023. It will host a group of local farmers known as Umurima, a name that pays homage to their home country of Burundi. Since 2010, the Umurima farmers have grown fresh food for their families and local markets on private land near Avondale rail station with support from Global Growers. Global Growers is an organization known for its network of farms and gardens that facilitate land access for new Americans. The group of women take MARTA to and from their homes in Clarkston and Stone Mountain to tend to their garden.<sup>6</sup> MARTA has also developed community gardens at three rail stations – including Five Points, West End, and Kensington.



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## Goodr

MARTA partnered with GOODr in 2022 to establish a mobile grocery store to serve the areas MARTA is unable to serve with its MARTA Market program. GOODr is a leader in food equity solutions and partnered with MARTA, Amazon, Mailchimp, Verizon, and Wellstar to bring this asset to the MARTA service area. The mobile grocer was delivered in late 2022 and food giveaways began in Clayton County in 2Q2023.





## Georgia Hispanic Construction Award

MARTA was named Government Partner of the Year by the Georgia Hispanic Construction Association (GHCA). Partners since 2016, MARTA supports the GHCA and its membership in a variety of ways, including posting construction job opportunities and other materials in Spanish and hosting Spanish-only workshops on MARTA property.<sup>8</sup>

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Lindbergh Station

## StationSoccer

MARTA has continued its StationSoccer program with Soccer in the Streets, the Atlanta United Foundation, and the City of Atlanta. StationSoccer is a citywide project to create a network of soccer fields connected by MARTA, eventually forming a ten-station league that's affordable and easily accessible by transit. The program expanded to Kensington Station in July 2022 and Lindbergh in September 2022, with several more planned at Doraville, East Lake, Bankhead, H.E. Holmes, and Civic Center stations completing the "League of Stations."<sup>7</sup>



Kensington Station

# new soccer fields at Kensington & Lindbergh train stations



## Artbound

Artbound is MARTA's public art program, consisting of both visual and performing arts engagements at transit stations. Free or cost-of-fare access to metro Atlanta's best art and artists improves customer experience and incentivizes riding transit. Interactive art projects improve mental health and build a sense of community for our neighbors.

In July 2022, Artbound partnered with StationSoccer to create a mural at Kensington Station that the soccer community and their families helped to paint.



Kensington Station Mural  
Before and After

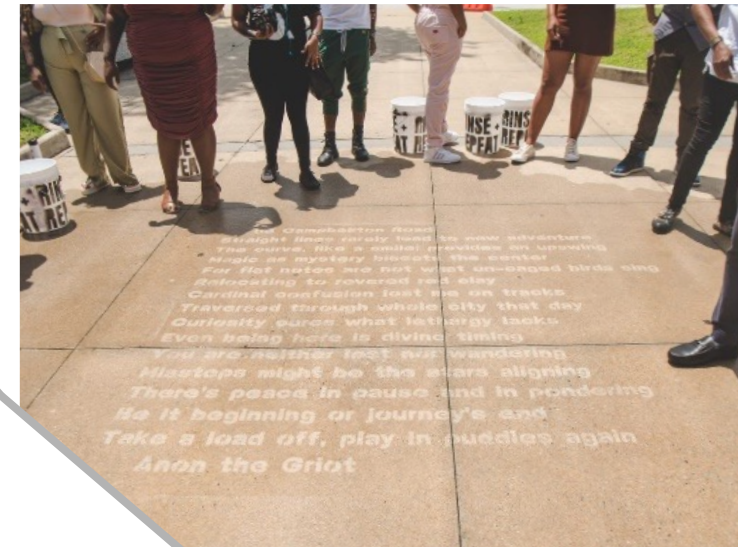


RailTalk-Re-Connect

RailTalk-Re-Connect launched in June 2022 for a 4-month run at various transit stations across the system. The project invited our riders to work with local poets, writers, and rappers to “share a kind thought with your fellow passenger” on large, magnetized boards with letters, emojis, and numbers. The opportunity to express freely was popular and the boards provided a sense of community as customers awaited their train or bus.

# free or cost-of-fare access to Atlanta's best art

In August 2022, Artbound installed the Rinse & Repeat Project, a unique poetry project that brought public art to our Bus Shelters for the first time. The project engaged eleven poets whose poems were featured at ten of our highest-use stops and culminated in a community event and poetry slam at West End Station. It was our first project that focused on poetry and the first to focus primarily on our bus ridership.



Rinse & Repeat

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## Transit-Oriented Development Initiative

The Atlanta Affordable Housing and Transit-Oriented Development (TOD) Initiative is a flexible, multi-product program designed to promote and support the development of ground-up mixed-income, TOD projects that benefit from proximity to MARTA's 38 heavy rail stations, 12 Atlanta Streetcar light rail stops and in new transit investment corridors.



Skyline Apartments; rendering from Exact Capital



Quill Apartments at Edgewood-Candler Station

# \$200M investment

In March 2022, in collaboration with Goldman Sachs Urban Investment group, MARTA announced Goldman Sachs' \$100 million increase to the initiative, for an overall total of \$200 million investment. The Initiative will continue to focus on projects financed through Goldman Sachs' *One Million Black Women* initiative, a \$10 billion commitment to advance racial equity by investing in Black women. The first investment will be the development of Skyline Apartments, a 250-unit affordable housing community.<sup>9</sup>

MARTA also delivered mixed income housing TODs at its King Memorial station and Edgewood Candler station. Shown below are the Skyline, King Memorial and Edgewood Candler projects.

## Five Points Transformation Project

MARTA was awarded a \$25 million grant through Rebuilding American Infrastructure with Sustainability and Equity (RAISE) to help transform the exterior of Five Points Rail Station. These structural upgrades will have a direct impact for those customers currently using MARTA and make transit a more attractive choice for those who live nearby. Encouraging use of public transit

to destinations surrounding Five Points reduces the need for surface parking downtown, green spaces, and other amenities that improve quality of life and enhance a city landscape. This effort supports fiscally responsible land use.<sup>10</sup>

# \$25M grant



Rendering of Five Points Station Transformation Project

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Rendering of Campbellton BRT



## Campbellton BRT Gold Standard

In 2022, MARTA committed to gold standards for Campbellton’s BRT (Bus Rapid Transit) service. These standards include:

- Center-running station platforms with mostly dedicated center transit lanes
- Real-time information
- Additional safety measures
- State-of-the-art amenities
- Ticket machines

The gold standards are designed to make BRT a more attractive option for passengers by providing a fast, reliable, safe, and environmentally friendly system.

## Bus Network Redesign

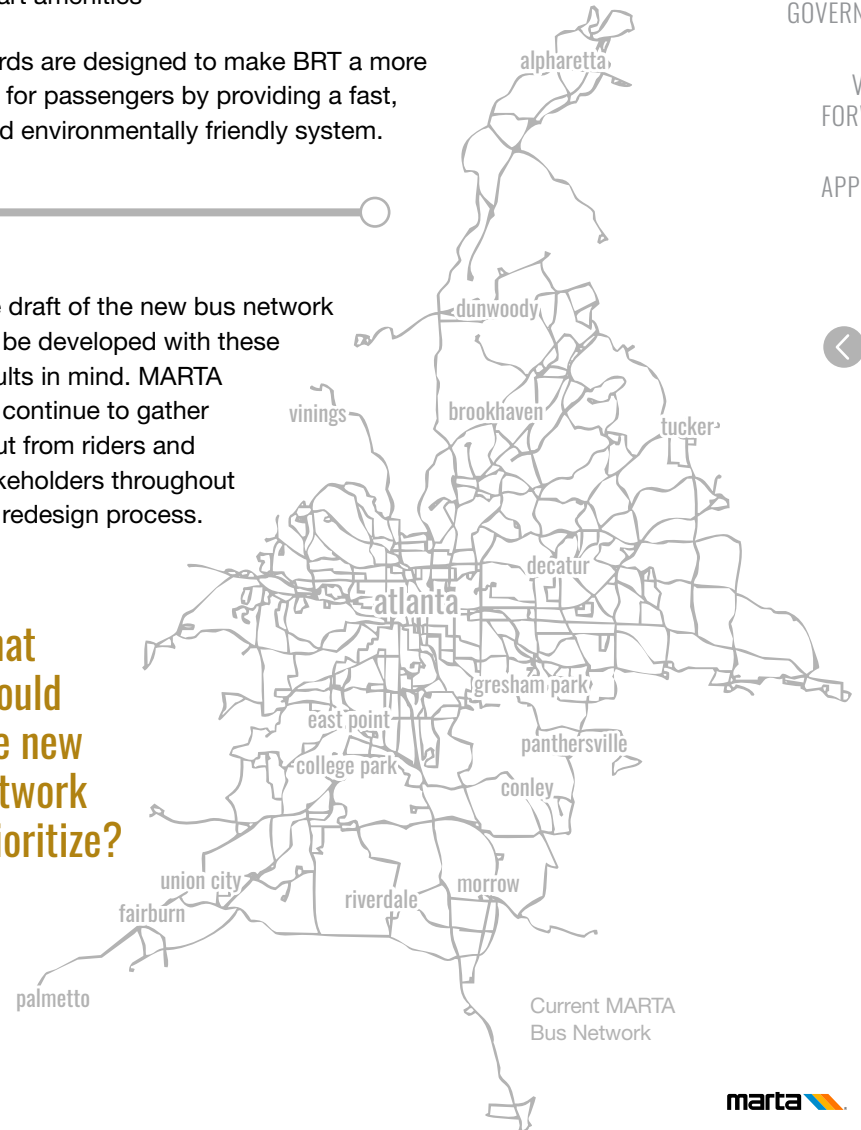
MARTA is redesigning its bus network to meet the needs of its riders in the changing times. In 2022, the agency conducted an

extensive survey effort to gather input from riders on whether the new network should prioritize a ridership-focused network that would provide more frequent service on high-demand routes, or a coverage-focused network that would provide service to more areas of the service area. The results showed that 51.2% of riders preferred ridership, while 36.3% preferred coverage, and the remaining 12.5% could not decide between concepts.



### what should the new network prioritize?

The draft of the new bus network will be developed with these results in mind. MARTA will continue to gather input from riders and stakeholders throughout the redesign process.





## Employee Resource Groups

MARTA launched three Employee Resource Groups in 2022:

- Black Excellence at MARTA
- Empowering Women @ MARTA
- MARTA Young Professionals Group

ERGs are employee-led groups that provide a forum for employees to connect with others who share their interests, backgrounds, and experiences. ERGs increase employee engagement and satisfaction, promote diversity and inclusion, support employee development, and raise awareness of important issues.



Warming the Heart Initiative



Tree plantings in Inman Park/Reynoldstown

The ERGs supported the community this past year by planting trees in the Inman Park/ Reynoldstown area, collected and donated can goods for the Atlanta Community Food Bank, and donated over \$1,000 to Making Strides Against Breast Cancer for Breast Cancer Awareness and Research. In addition, the Warming the Heart Initiative kicked off in November, providing hats, scarves, socks and gloves to local shelters within the communities we serve.



Atlanta Community Food Bank donation



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## ADA Accessible Service Videos

MARTA is committed to educating seniors and individuals with disabilities. One of the ways MARTA achieved this goal was by developing informational videos on MARTA's accessible services, products, and benefits. The Authority believes that educating people on accessible transportation options will

promote full participation and inclusion of seniors and individuals with disabilities in their communities. Additionally, FTA encourages transit agencies to engage riders with disabilities when deciding on local transit services. The videos are posted on the MARTA website.



## Atlanta Transportation Bonding Education Program

MARTA teamed up with the USDOT Mid-South Atlantic Small Business Transportation Resource Center (SBTRC) for the Bonding Education Program hosted by The Greater Atlanta Economic Alliance. The purpose of this program is to assist small and disadvantaged businesses with being able to build their capacity in hopes of being able to compete as Primes on larger government projects.

## MARTA Townhalls & General Manager Breakfast Events

In 2022, leadership connected with employees through a variety of channels, including authority wide townhalls and smaller GM Breakfasts with randomized employees. These events provided a forum for employees to ask questions, share feedback, and learn about the company's plans. This level of transparency and collaboration helped to build trust between employees and leadership.

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# governance





**Governance** initiatives at MARTA promote transparency, integrity, diversity, and accountability within and throughout MARTA's operations, programs, hiring, and management structure. At MARTA we are extremely proud of our new Office of Sustainability. This new department drives home the importance of sustainability and ESG at MARTA and demonstrates the executive leadership's commitment to implementation. Transparency and ethics are equally as important to MARTA's governance goals. MARTA is committed to providing transparency in reporting and decision-making. MARTA has a public-facing vision, mission, and priorities that aim to provide high quality services to Atlanta, while simultaneously holding ourselves to high standards. MARTA's vision is:

## people taking people where they want to go today and tomorrow

Through our drive to connect Atlanta, promote equity, and create a more livable region, we're elevating the community and providing clean and safe alternatives to single occupancy vehicles.

## Corporate Governance

MARTA's new Office of Sustainability reports directly to Chief Customer Experience Officer. This elevates the importance of ESG at MARTA and demonstrates leadership buy-in from the start.

As seen below, each level has sustainability and ESG responsibilities and a shared focus on integrity and diversity to ensure a broad range of opinions and experiences in managing the Authority.

### MARTA board of directors

- Provides ESG and sustainability oversight and supports the Executive Leadership team.
- Certify that regulatory obligations are met
- Seek new funding opportunities

### executive leadership

- Attend and participate in Board briefings
- Direct the Office of Sustainability
- Provide strategic and operational support

### office of sustainability

- Manages ESG and Sustainability programs
- Distributes information across Authority
- Briefs Executive Leadership and Board on program progress and updates





## Ethics

MARTA has high standards for performance and behavior – this applies to both employees and contractors.

These are outlined in MARTA’s Code of Ethics and Standards of Conduct.<sup>11</sup>

## Transparency

MARTA has been providing transparent reporting for many years. Public reporting includes financial statements, transit-oriented development plans, and sustainability reports. All of these are available online, including, archived reports. As MARTA continues to enhance our ESG work, we’ll look for new ways to publish future plans and studies.

MARTA also has public-facing key performance indicators (KPIs) that are primarily related to service and safety.<sup>12</sup> As we develop MARTA’s ESG program, we are considering opportunities to publish sustainability related KPIs.

## Collaboration between Partnering Agencies

MARTA collaborates with partnering agencies such as the Atlanta Regional Commission (ARC) and the Atlanta Transit Link (ATL), through the creation of reports such as the Annual Report & Audit (ARA), the Fast Forward, formally known as the Atlanta Regional Transportation Plan (ARTP), and the Metropolitan Transit Plan (MTP). These partnerships allow us to share best practices and collaborate on projects that improve the transportation system for our riders.

In addition, we worked with Clayton County to develop new bus services that connect to underserved communities, and with the City of Atlanta to install a new bike share program in our downtown area. These partnerships have helped us to improve the transportation options available to our riders and make our community more sustainable.





# vision forward

MARTA has come a long way in terms of sustainability, but we still have more to do and are committed to continual improvement.

The following section outlines our plan to expand MARTA sustainability efforts through the ESG framework.



## Railcar Replacement Project

MARTA Railcar Replacement Project will replace our entire rail fleet of 288 railcars over the next several years with 244 railcars purchased from Stadler and two additional options to procure 50 railcars each. MARTA's next generation of rail cars will use new technology to advance safety and security for customers and employees, with the added benefit of expanding comfort and convenience elements.

**288**  
railcars to  
be replaced

## Office of Sustainability

In the next year, MARTA will grow and strengthen our new Office of Sustainability which will allow for the centralization and prioritization of sustainability practices and policies throughout the Authority. Some of the Office's future plans include:

- Developing and formalizing an Authority-wide sustainability policy.
- Conducting a vulnerability study for MARTA that touches on several ESG aspects.
- Enhance ESG reporting and improve sustainability reporting to better align with standards for our next Report
- Design a sustainability management plan that outlines the next steps for improving sustainability at MARTA.
- Develop a Climate Action Resilience Plan that focuses on reducing GHG emissions and improving system and operational resilience to future climate change implications.
- MARTA is exploring the potential of renewable energy projects, including hydrogen fuel cells and expansion of their solar capacity.
- Finally, we are refining the sustainability dashboard to more accurately track metrics at increased intervals.

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# appendix



## Detailed Sustainability Data

YEAR	2008	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>RECYCLING / WASTE</b>												
Landfill total (tons)		2,100	2,036	2,014	1,896	1,812	1,932	1,958	1,974	1,875	1,828	1,849
Recycling total (tons) <sup>13</sup>		693	851	839	758	785	696	795	1,034	660	704	666
<b>Diversion Rate</b>		<b>24.8%</b>	<b>29.5%</b>	<b>29.4%</b>	<b>28.6%</b>	<b>30.2%</b>	<b>26.5%</b>	<b>28.9%</b>	<b>34.4%</b>	<b>26.0%</b>	<b>27.8%</b>	<b>26.5%</b>
<b>Pounds (lbs.) waste &amp; recycling / VRM</b>		<b>0.1189</b>	<b>0.1219</b>	<b>0.1211</b>	<b>0.1019</b>	<b>0.0959</b>	<b>0.0941</b>	<b>0.0970</b>	<b>0.1038</b>	<b>0.0909</b>	<b>0.1041</b>	<b>0.1051</b>
<b>ENERGY</b>												
Electricity (kWh)	209,440,000	184,176,716	184,037,039	192,271,748	196,555,667	196,315,436	194,389,734	194,045,356	187,252,653	157,042,241	162,419,248	159,234,832
<b>kWh / VRM</b>	<b>9.574</b>	<b>3.92</b>	<b>3.89</b>	<b>4.08</b>	<b>3.77</b>	<b>3.63</b>	<b>3.48</b>	<b>3.42</b>	<b>3.23</b>	<b>2.82</b>	<b>3.34</b>	<b>3.33</b>
Stationary Natural Gas (therms)		1,022,933	1,161,796	1,155,237	1,124,451	1,066,777	1,090,856	1,085,084	1,022,753	990,300	924,097	629,817
<b>Therms / VRM</b>		<b>0.022</b>	<b>0.025</b>	<b>0.025</b>	<b>0.022</b>	<b>0.020</b>	<b>0.020</b>	<b>0.019</b>	<b>0.018</b>	<b>0.018</b>	<b>0.019</b>	<b>0.013</b>
Mobile Fuel (gallons)	11,016,771	8,861,416		8,947,471	9,134,921	9,495,529	9,798,641	8,827,369	9,196,128	8,317,180	8,237,141	7,749,942
<b>Gallons / VRM</b>	<b>0.199</b>	<b>0.189</b>		<b>0.190</b>	<b>0.175</b>	<b>0.175</b>	<b>0.176</b>	<b>0.156</b>	<b>0.159</b>	<b>0.149</b>	<b>0.169</b>	<b>0.162</b>
Overall Energy <sup>14</sup> (mmBtu)		1,303,448		1,372,644	1,264,610	1,366,694	1,379,320	1,316,375	1,354,823	1,150,422	1,177,389	1,134,530
<b>kBtu / VRM</b>		<b>27.73</b>		<b>29.13</b>	<b>24.28</b>	<b>25.25</b>	<b>24.71</b>	<b>23.19</b>	<b>23.37</b>	<b>20.63</b>	<b>24.19</b>	<b>23.69</b>
<b>WATER</b>												
Water used (gallons)		33,384,685	33,940,595	31,037,073	34,900,740	25,840,667	28,964,573	25,253,976	24,535,358	24,336,576	19,814,401	22,797,630
<b>Gallons / VRM</b>		<b>0.710</b>	<b>0.717</b>	<b>0.659</b>	<b>0.670</b>	<b>0.477</b>	<b>0.519</b>	<b>0.445</b>	<b>0.423</b>	<b>0.436</b>	<b>0.407</b>	<b>0.476</b>
<b>GREENHOUSE GASES (GHG)</b>												
GHG emitted (MT CO <sub>2e</sub> )	240,224	204,027		191,498	192,646	184,594	187,820	190,002	184,336	155,071	147,466	140,727
<b>CO<sub>2e</sub> pounds / VRM</b>	<b>9.574</b>	<b>9.569</b>		<b>8.960</b>	<b>8.156</b>	<b>7.517</b>	<b>7.417</b>	<b>7.380</b>	<b>7.011</b>	<b>6.13</b>	<b>6.68</b>	<b>6.48</b>
GHGs displaced (MT CO <sub>2e</sub> )		1,769,277		1,766,711	1,779,438	1,781,410	2,304,525	2,371,830	2,452,485	2,373,595	2,229,409	2,205,480
<b>CRITERIA AIR POLLUTANTS (CAP)</b>												
<b>Total CAP (tons)</b>		<b>325</b>	<b>323</b>	<b>327</b>	<b>361</b>	<b>378</b>	<b>347</b>	<b>335</b>	<b>366</b>	<b>375</b>	<b>327</b>	<b>321</b>

Light grey boxes represent year in which the corresponding data were not collected.

2022 GHG Emissions will be updated in the next Fiscal Year.



## Footnotes

- 1 All factors normalized by Vehicle Revenue Miles (VRM).
- 2 Includes electricity, vehicle fuel, and natural gas
- 3 [IPCC Report](#)
- 4 The CY 2022 update will be completed in late 2023.
- 5 Land use effect refers to emissions displaced by transit enabling denser land use patterns in the region.
- 6 [MARTA partners with Global Growers to bring farm to Indian Creek station](#)
- 7 [MARTA, Soccer in the Streets celebrate official opening of Station Soccer at Lindbergh Center station](#)  
  
[MARTA Station Soccer expands to Kensington station](#)
- 8 [MARTA named Georgia Hispanic Construction Association "Government Partner Of The Year"](#)
- 9 [MARTA, Goldman Sachs announce \\$100 million increase to Atlanta Affordable Housing and Transit-Oriented Development Initiative](#)
- 10 [MARTA awarded federal grant for Five Points Station transformation](#)
- 11 [MARTA Code Of Ethics And Standards Of Conduct](#)
- 12 [MARTA KPIs](#)
- 13 Includes scrap metal, single-stream recycling, paper recycling, lamps, batteries, tires, and used oil; Halon included in 2020 only.
- 14 Overall energy includes electricity, stationary natural gas, and mobile fuel consumption

## Acronyms

<b>APARC</b>	Automated Parking and Revenue Control	<b>HJAIA</b>	Hartsfield Jackson Atlanta International Airport
<b>APTA</b>	American Public Transit Association	<b>HOPE</b>	Homeless Outreach and Proactive Engagement
<b>CNG</b>	Compressed natural gas	<b>IPCC</b>	Intergovernmental Panel on Climate Change
<b>CO<sub>2</sub>e</b>	Carbon dioxide equivalent	<b>KPI</b>	Key performance indicator
<b>COVID-19</b>	Novel coronavirus	<b>MARTA</b>	Metropolitan Atlanta Rapid Transit Authority
<b>CY</b>	Calendar year	<b>MT</b>	Metric tons
<b>ESG</b>	Environmental, social and governance	<b>RAISE</b>	Rebuilding American Infrastructure with Sustainability and Equity
<b>EV</b>	Electric vehicle	<b>SBTRC</b>	Small Business Transportation Resource Center
<b>FTA</b>	Federal Transit Administration	<b>TOD</b>	Transit-Oriented Development
<b>FY</b>	Fiscal Year	<b>VRM</b>	Vehicle revenue miles
<b>GHCA</b>	Georgia Hispanic Construction Association		
<b>GHG</b>	Greenhouse gas		
<b>GM</b>	General Manager		



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