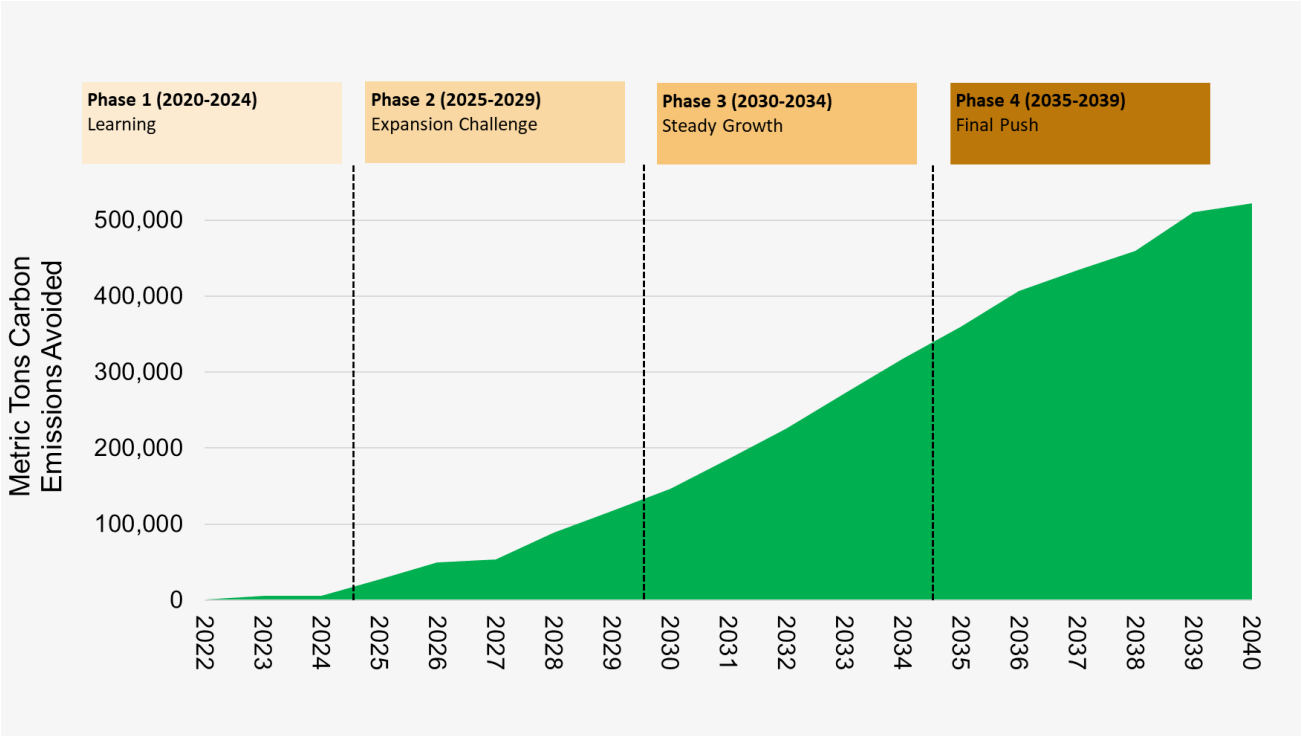
Electrifying the Bus Network

The Path to a Zero-Emissions Fleet by 2040

Zero-emissions buses are key to MTA's sustainability strategy



The path to 100% zero-emission vehicles

2019-21: 10-bus pilot program (leased)

Today: 15 electric buses operating in Manhattan

2022-23: 60 new buses hitting the streets starting later this year

2025-26: 470 electric buses (380 40-foot standards, 90 60-foot articulated)

2027-40 All remaining diesels retired; replaced by electric or zero-emission vehicles

Installation of charging infrastructure and energy upgrades must precede future deliveries of electric buses at all depots

Charging buses requires additional power supply from grid

30 MW

Existing capacity

370 MW

Additional capacity needed over 17 years

Next-Gen depots no longer just ‘concepts’

Planned Jamaica Depot @ Tuskegee Airman Way, Jamaica, NY

Zero-emission fleet expansion plans are baked into the Jamaica Depot rebuild and Gun Hill Road redevelopment projects

New Jamaica Depot designed to accommodate 100% electric bus operation

New facility for 200 electric buses at Gun Hill depot as part of a joint public-private development opportunity

Challenges & Opportunities

- The New York City environment poses additional challenges
- Supply chain issues impact timelines
- Number of qualified electric bus manufacturers still limited
- New workforce training and development programs must be developed to deliver new skills to our workers
- Redundancy measures are required in case of a widespread power outage
- Additional bus and infrastructure funding

Strategizing future deployments

By deploying more electric buses and depots, the MTA is prioritizing:

- Vulnerable and traditionally underserved neighborhoods
- Capacity of the power grid
- Facility space
- Schedule feasibility
- Fair geographic distribution across all five boroughs


clean-energy bus
ZERO EMISSIONS
ELECTRICBUS
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Thank you.