

DISTRICT DEPARTMENT OF TRANSPORTATION

Carbon Reduction Strategy *October 2023*

TPB Technical Committee
Agenda Item 4

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Existing Plan #1: moveDC (Long-range Plan)




Policy P: Reduce citywide greenhouse gas emissions 50 percent by 2032 (compared to 2006 baseline) and reduce greenhouse gas emissions from transportation by 60 percent by 2032 (compared to 2006 baseline).

Strategy #33:

UPDATE DDOT FLEET AND DC CIRCULATOR BUSES TO BE ELECTRIC

Implement the DC Circulator electrification plan and electrify the District-owned bus fleet by 2027. Convert 50 percent of the DDOT fleet to electric by FY 2023.

Implementation Steps




-  Conduct a cost/benefit analysis for a transition to an electric fleet
-  Create a fleet replacement program
-  Implement the fleet replacement program

Strategy #34:

SUPPORT ELECTRIC VEHICLE USE WITH MORE CHARGING FACILITIES

Determine the demand for electric chargers. Encourage developers to provide electric chargers where demand is identified. Allow electric chargers in the public right-of-way through a permit process.

Implementation Steps

-  Document the number of electric vehicles and chargers in the District and surrounding jurisdictions
-  Assess the demand for electric charging stations; develop materials and conduct outreach to encourage developers to construct electric charging stations
-  Track, monitor, and report; coordinate between DDOT and surrounding jurisdictions to share data

Existing Plan #2: goDCgo (Transportation Demand Management Plan)

- goDCgo provides commuters, employers, and others with the education and assistance they need to make more informed choices about their daily travel
- Focuses on development and implementation of commuter benefits programs and transportation amenities
- The program reduces single-occupancy vehicle (SOV) travel, decreases traffic congestion, and improves air quality to create a better quality of life in the District.



People Helped

40,364

shifted to a
clean commute



Decreased Traffic

814,245

car miles
saved each day



Cleaner Air

612,153

lbs of CO₂
reduced each day


Existing Plan #3: Sustainable 2.0

 | GOAL 4

Reduce greenhouse gas emissions and air pollution from the transportation sector.

 | TARGET 4 BASELINE

1.73
metric tons

 | TARGET 4

Reduce greenhouse gas emissions from transportation by 60%.

- Sustainable DC offers four goals and 23 actions to help improve the DC transportation system.
- Goals include:
 - Improve connectivity and accessibility through efficient, integrated and affordable transit systems.
 - Expand safe, connected infrastructure for pedestrians and cyclists.
 - Enhance affordable, convenient transportation options to reduce dependency on single occupant vehicles.
 - Reduce greenhouse gas emissions and air pollution from the transportation sector.

Eligible Projects Ex. 1: Bus Electrification + Sustainable Facilities



3000 Series - Electric

Benefits of 3000 series – Electric

100% battery electric propulsion

Zero emissions

Displaces 88.9K gallons of diesel annually

Eliminates more than 244K lbs of CO2 emissions annually

Provides cost savings of more than \$6 million during a 12-year lifetime

Reduces noise pollution throughout the District

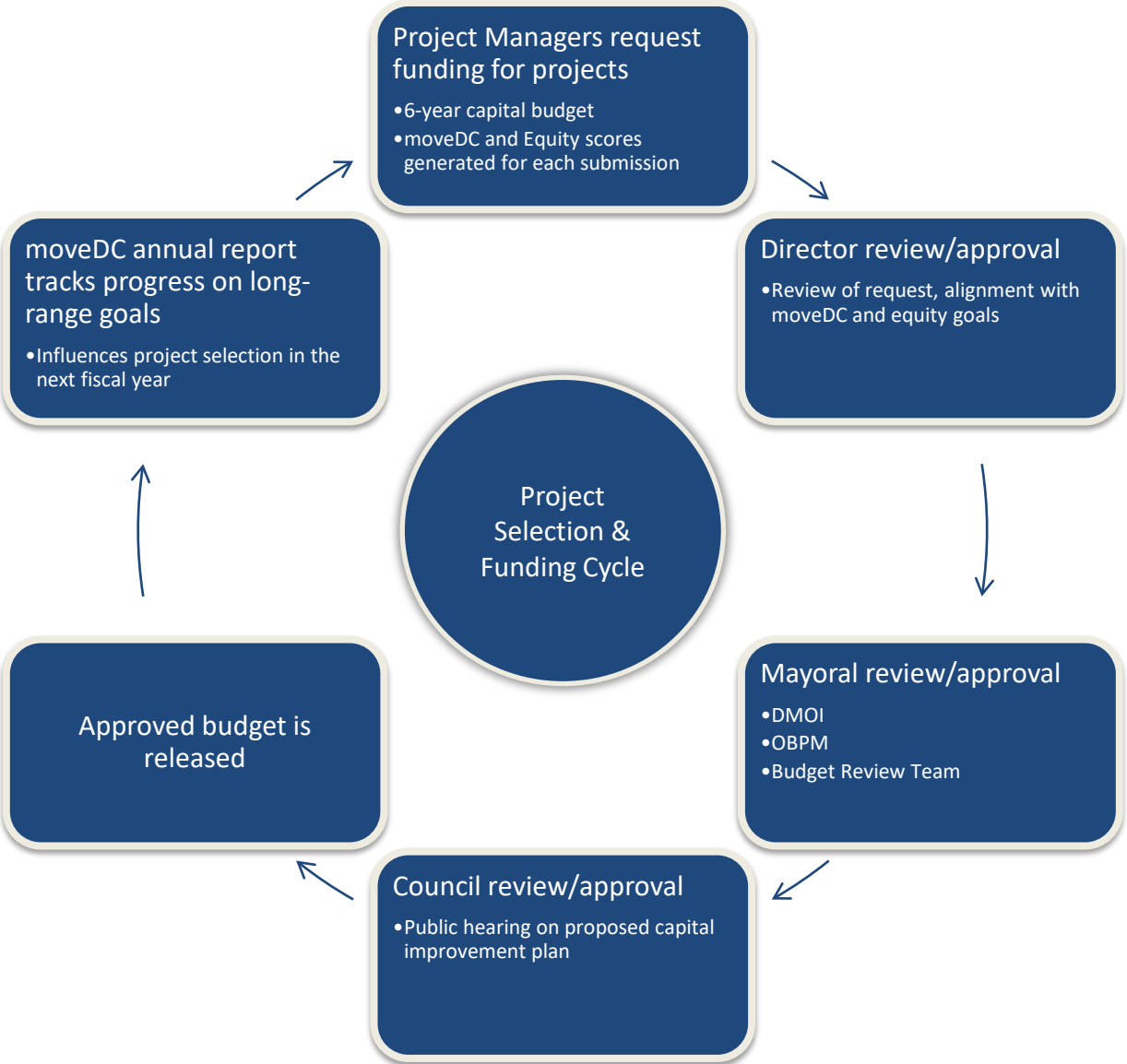
- DDOT is in the process of transitioning the entire District of Columbia Circulator (DC Circulator) bus fleet to battery-electric bus (BEB) vehicles by 2030
 - Transitioning our fleet to electric between April 2018 and April 2020, with a 14 BEB demonstration pilot for the Circulator
- As our battery-electric bus program grows, DC Circulator is upgrading existing and constructing new facilities with a focus on sustainable energy usage and storage.
 - DC Circulator is also planning a new garage to house our entire future fleet. The site, which is anticipated to open by 2028, will store and charge electric buses only

Eligible Projects Ex. 2: Bus Priority Program

- Mayor Bowser established the Bus Priority Program to improve bus speeds and reliability for riders across the District
- Bus priority includes the following strategies:
 - Improvements to the roads where buses operate, including bus lanes, transit signal priority, and floating bus islands;
 - Changes to the way bus service is operated, including more direct routes, faster fare payment and boarding, and bus stop rebalancing;
 - Enforcement of bus lanes and bus stops;
 - Improvements for multimodal safety and pedestrian access to bus stops.



DDOT's Project Selection Process



GOALS

moveDC 2021 has a goal for each of the following subjects: safety, equity, mobility, project delivery, management and operations, sustainability and enjoyable spaces. Each goal is defined with a goal statement:



Safety

DDOT will design and manage a transportation network that offers safe and secure travel choices for all users, in accordance with Mayor Bowser's [Vision Zero](#) initiatives.

Equity

DDOT will advance transportation equity by evaluating its policies, planning, community engagement and project delivery, to ensure public investments in transportation justly benefit all residents, visitors and commuters.



Mobility

DDOT will increase system reliability, improve accessibility and manage congestion through coordination, communications and mobility options, providing safe and affordable travel choices for all users and trips.

Project Delivery

DDOT will complete projects on-time and on-budget while engaging and communicating with the community.



Management and Operations (State of Good Repair)

DDOT will ensure the state of good repair for existing assets by investing in maintenance and operations to address the greatest mobility needs.

Sustainability

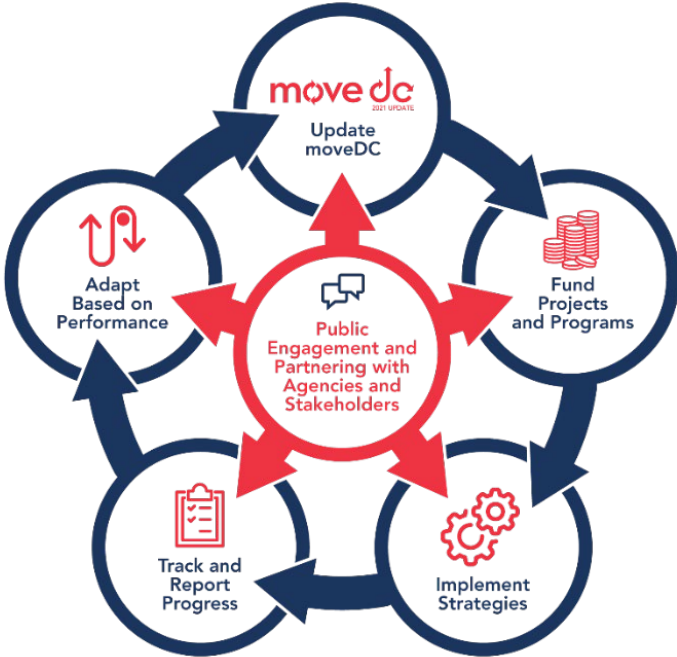
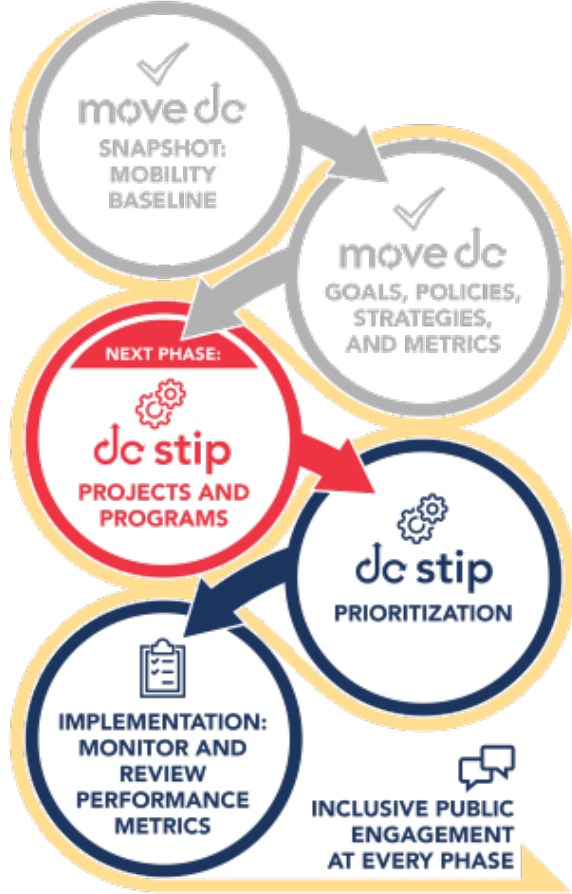
DDOT will manage and promote a transportation network that supports economic vitality and opportunity, reduces emissions and strengthens resilience in the face of climate change, especially in historically underserved neighborhoods that may experience greater impacts.



Enjoyable Spaces

Public spaces and transportation systems managed by DDOT will be accessible, safe, and welcoming to residents, visitors and commuters.

DDOT's Public Input Process for Project Advancement



Comments:

- Erin Morrow will be collecting comments and further questions and providing them to DDOT.
- Please have comments by October 25 COB
- DDOT Contacts:
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Coordination Process Recommendation

