Goal 4:
Promote a more sustainable future for our planet

We are stewards for our natural resources and need to promote a more sustainable future. Our plan supports the State’s ambitious efforts to reduce energy consumption and emissions from the transportation sector.
AGENDA

- Sustainability Plan
- Website
- Energy Efficiency
- Solar Designs and Solar at TRANSIT
- EDF Fellow & Green Team
NJ TRANSIT SUSTAINABILITY PLAN
By generating the first NJ TRANSIT Sustainability Plan, we will understand our current practices and as they relate to waste, water, energy, and how we interact with our employees and the public.

We will generate actionable items and goals that NJ TRANSIT can use to be a leader in sustainable public transportation.
SUSTAINABILITY PLAN

The plan will build upon the foundation of projects and goals that have already been established in:

10-year Strategic Plan Goals

1) Ensure the reliability and continued safety of our transit system
2) Deliver a high-quality experience for all our customers, with their entire journey in mind
3) Power a stronger and fairer economy for all communities in the region
4) Promote a more sustainable future for our planet
   - 4.1 Partner with communities and developers to encourage Transit-Oriented Development (TOD)
   - 4.2 Convert to 100 percent clean energy by 2050
   - 4.3 Enhance the system’s resilience to extreme climate events
5) Build an accountable, innovative and inclusive organization that delivers for New Jersey

5-year Capital Plan

- By supporting investments in green infrastructure and programs

Energy Master Plan

- Strategy 1: Reduce Energy Consumption and Emissions from the Transportation Sector

Department of Environmental Protection’s 2050 Global Warming Response Act Recommendations Report
SUSTAINABILITY PLAN

Completed

- Our 10-Year Strategic Plan, specifically Goal 4, called for the creation of a corporate sustainability plan
- We reached out to industry and our environmental TOCs to gather input into the components of a sustainability plan
- Our scope of work was built using this information and information from other transit agencies

Upcoming

- Anticipate contract award to a consultant in November to support the Energy and Sustainability Team in generating the Sustainability Plan
- The work will include information from across NJ TRANSIT departments and disciplines to create a holistic view of our organization
- The plan will be completed and released by the end of 2023
APPROACH TO NJ TRANSIT’S SUSTAINABILITY PLAN

Phase 1:
Planning

Phase 2:
Development
PHASE I: PLANNING

This phase is about data gathering and preparation. We intend to pull best practices and knowledge from sister agencies, federal and state organizations, and from our partners abroad all while engaging with key stakeholders.

1. Define elements of sustainability plan
2. Identify data gaps in sustainability metrics
3. Data collection and benchmarking of NJT sustainability metrics
4. Perform a Materiality Assessment through the identification of Key Stakeholders
5. Develop Sustainability Priorities
6. Present Materiality Assessment and preliminary Sustainability Priorities
PHASE II: DEVELOPMENT

This phase is about taking the foundation we’ve built, and creating a plan with actionable items, goals, projects, and initiatives.

1. Produce Sustainability Plan Vision
2. Engage internal and external stakeholders and general public on the Sustainability Plan
3. Finalize and release Sustainability Plan
TENTATIVE SCHEDULE AND TIMELINE

Phase 1
Planning

1. Project Management & Administration
2. Elements of the Sustainability Plan
3. Internal/External Stakeholder and General Public Engagement
4. Identify Data Gaps
5. Materiality Assessment
6. Develop Sustainability Priorities
7. Internal Stakeholder and Interagency Dialogue
8. Present the Assessment and Overarching Sustainability Priorities
9. Establish a NJ TRANSIT Sustainability Committee

Phase 2
Sustainability Plan Development

10. Sustainability Plan Vision
11. Engage Internal and External Stakeholders and General Public on the Sustainability Plan
12. Dedicated Stakeholder Engagement Task
13. Finalize and Release the Sustainability Plan
Initiatives and goals like:

- Shifting corporate culture towards environmental stewardship (Strategic Plan Goal #4),
- Convert NJ TRANSIT to 100 percent clean energy by 2050 (Strategic Plan Goal #4.2),
- And emphasizing NJ TRANSIT’s role in reducing our State’s transportation emissions (State Energy Master Plan).

Tangible projects to address, for example, climate action and resiliency through:

- Installing renewable resources,
- Supporting Transit Oriented Development,
- And installing new energy efficient and water saving equipment.
SUSTAINABILITY MESSAGING

COMMUNICATING WITH THE PUBLIC
The Sustainability webpage launched this year with information regarding sustainability at NJ TRANSIT and our Zero Emissions Bus Program.

https://www.njtransit.com/sustainability
WEBSITE

  - Zero Emission Bus Approach
  - Recording of Presentation from May’s Energy and Sustainability Policy Committee Meeting
- Additional pages on other topics and projects will be released in the future
ENERGY EFFICIENCY

REducing NJ Transit's energy use
ENERGY EFFICIENCY: LGEA/LEUP/ESIP

- Local Government Energy Audits (LGEA)
  - Completed 18 energy audits

- Large Energy User Program (LEUP)
  - Notable projects complete at the Meadows Maintenance Complex (MMC) in Kearny and Newark Bus Complex (NBC) in Newark

- Energy Savings Improvement Program (ESIP)
  - Investigating the program and drafting an RFP
  - Lighting can be critical to achieving energy savings
    - LEUP projects will be rolled into the ESIP
ESIP GOALS AND OUTCOMES

At NJ TRANSIT, we are exploring the use of ESIP to fund projects at our bus, rail, and office buildings.

The ESIP will give NJ TRANSIT new energy efficient equipment.

This first ESIP will lay the foundation for future energy efficiency retrofit projects at all NJ TRANSIT facilities to improve facility energy efficiency.
SOLAR AT TRANSIT

INCREASING OUR PORTFOLIO OF RENEWABLES
NJ TRANSIT owns a 683-kW rooftop solar array at our Meadows Maintenance Complex.

We are generating solar-ready designs for roofs and solar canopies over parking lots that will help streamline and standardize installation.

The Sustainability Plan will guide our clean energy development strategy, which will be incorporated in our 5-year Capital Plan.
DEVELOPING SOLAR AT TRANSIT

**Bus Garage Solar Designs**
- Solar-Ready Roof and Parking Lot Canopy Standard Designs and Specifications

**Bus Garage Solar PPA**
- Build Institutional Knowledge of Installing Solar with Developers

**Streamline and Standardize Installation of Solar at NJ TRANSIT**

**Support the Energy Master Plan, Strategic Plan, and Capital Plan**

**Build NJ TRANSIT's Institutional Knowledge of Installing Solar**
INSTITUTIONAL PARTNERSHIPS
BUILDING RELATIONSHIPS WITH EXTERNAL INSTITUTIONS
EDF FELLOW & GREEN TEAM

- EDF Partnership
- Supporting our zero-emissions bus program

- Supporting university efforts
- Hosted panel discussion with Green Team and their families about STEM jobs at NJ TRANSIT
- Supporting life-cycle analysis of zero-emissions bus
THANK YOU

Questions?