SEPTA's Budget Neutral Approach to Sustainability



Erik Johanson, Chief Innovation Officer

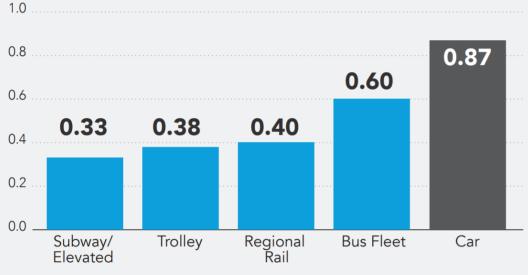
November 19, 2020

SEPTA's Value Proposition

Transit Is Inherently Sustainable



LOWER PER PASSENGER MILE GHG EMISSIONS





SEPTA's Sustainability Program



Award-Winning SEP-TAINABLE





Governor's Award for Environmental Excellence

COMMONWEALTH AWARD



10thousand Friends

LEADING THE WAY ON SMART GROWTH



SEPTA's Sustainability Program



Triple Bottom Line Approach



"BUDGET NEUTRAL" APPROACH (I.E., NO SET BUDGET FOR SUSTAINBILITY)

- Off-Budget Financing (Power Purchase Agreements, Energy Performance Contracts, Public-Private Partnerships)
- Grant Funding (FTA LoNo, CMAQ/DERA, PEDA)
- Core Business (Embedding Sustainability into Capital + Operations)

Energy Action Plan



Comprehensive Budget-Neutral Plan to Reduce Energy & GHG



WAYSIDE STORAGE (GRANTS, P3)

The New York Times In Philadelphia, Batteries on Transit System Power More Than Just the Trains January 22, 2016





BATTERY-ELECTRIC BUSES (FTA LONO GRANTS)



Solar Program



Power Purchase Agreements ON-SITE, ROOFTOP SOLAR (PPA)



OFF-SITE, UTILITY SCALE SOLAR (VIRTUAL PPA)



Power Resiliency



SOLAR + BATTERY-POWERED SIGNAL SYSTEM (FTA GRANT)

- Partially Funded Through Federal Climate Resilience Initiative
- 48 Hours of Back-Up Power In the Event of Signal Power Failure
- Avoids Rippling 12-Minute
 Average Delay from Each Outage
- Zero Signal Power Failures Since
 Pilot Installation in 2018
- Now Under Construction: Three More Lines (Ultimate Goal: Full Regional Rail Buildout)
- Potential to Become Primary
 Power in the Future

Grants & Embedded in Core Operations

