



# Construction Network

May 19, 2021

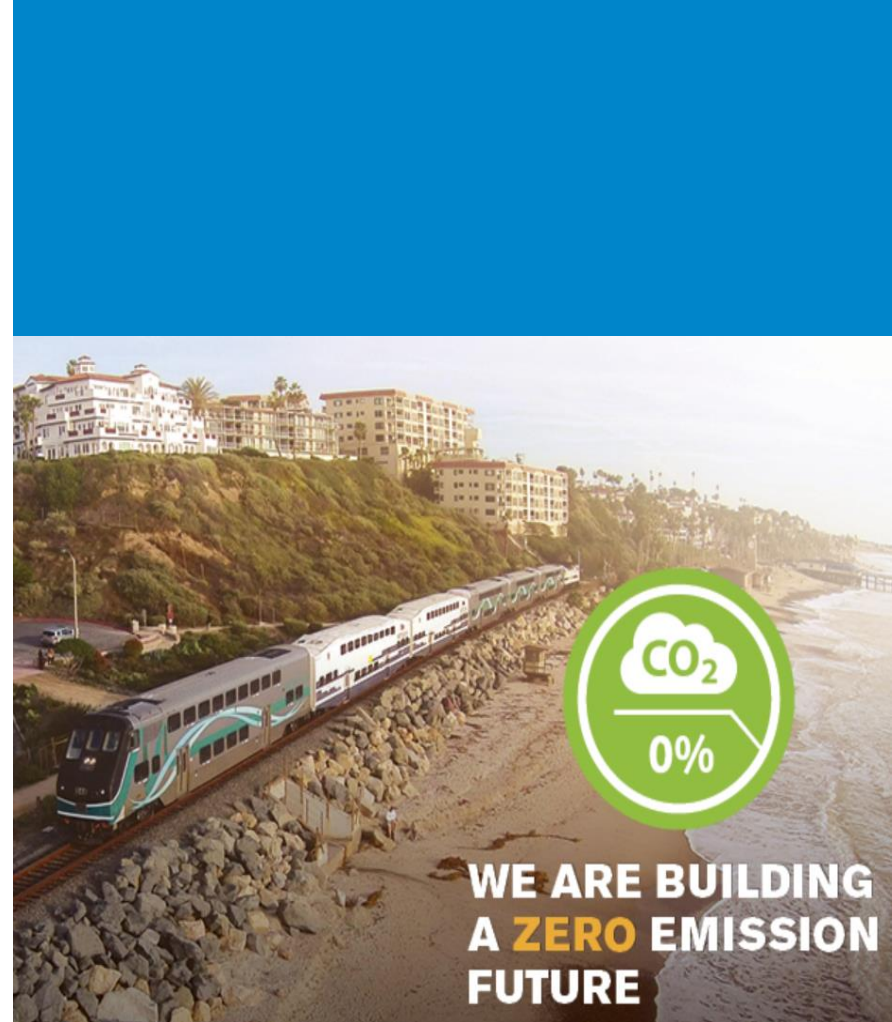


**METROLINK®**

**SMARTER. BETTER. ESSENTIAL.**

# Purpose

- Metrolink wants to accelerate its zero emissions future
- Metrolink is poised to be a leader in reducing climate impacts
- Metrolink will continue to reduce its impact on neighboring communities
- The Plan aligns with Federal and State climate change goals

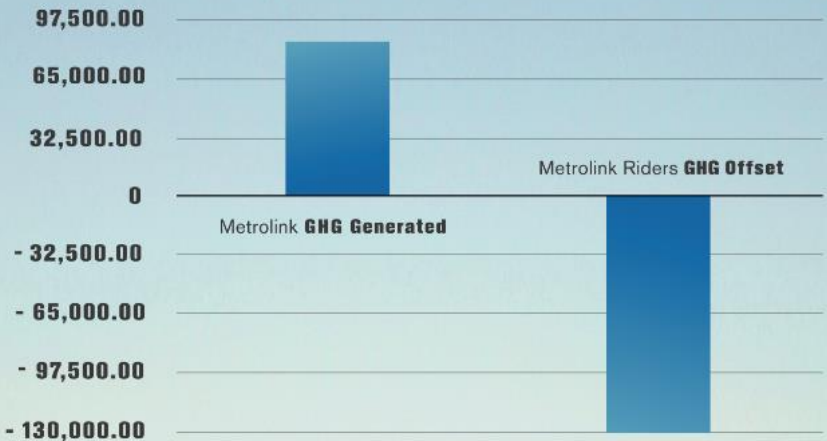


# Pre-COVID (FY19) Annual Emissions Displacement

- Metrolink eliminated 130,000 MTCO2
- Metrolink emitted 87,000 MTCO2
- Net reduction of 43,000 MTCO2 (33%) for the region
- Improved air quality by reducing criteria pollutants of NOx and PM 2.5

## Metrolink Baseline Emissions Impact

Based on FY19 Ridership



# Zero Emissions

- 95% of emissions generated by petroleum diesel locomotive fuel
- 73% of fleet is Tier 4, cleanest diesel locomotive available
- Stretch goal to be zero emissions railroad- **Moon Shot by 2028!**
- Through 2028, Southern California region to host Super Bowl, FIFA World Cup and Olympics/Paralympics



# Plan Structure

## Environmental Categories

- Emissions (NO<sub>x</sub>, PM, CO<sub>2</sub>)
- Energy
- Water
- Waste
- Resiliency
- Sustainable Procurement






- GOAL: Intentional objective to accomplish
- TARGET: Measurable outcome
- ACTION: Specific tasks to achieve a goal

## Stretch Goals

- Aspirational, challenging to meet



# CLIMATE ACTION PLAN TARGETS

TARGET	SHORT (1-3 YEARS)	MEDIUM (4-6 YEARS)	LONG (7-10 YEARS)
<b>REVENUE FLEET EMISSIONS</b> 	<p><b>REDUCE TOTAL GHG EMISSIONS</b> 50% BY 2030   <b>REDUCE TOTAL NOX EMISSIONS</b> 44% ANNUALLY BY 2030</p> <p><b>REDUCE TOTAL PM EMISSIONS</b> 64% ANNUALLY BY 2030   <b>DISPLACE 55% MTCO<sub>2e</sub> RIDERSHIP VMT</b> BY 2030</p> <p><b>100% PETROLEUM FUEL FREE</b> BY 2022</p> <p><b>MOON SHOT: 100% ZERO EMISSIONS</b> BY 2028</p>		
<b>NON-REVENUE FLEET LIGHT-DUTY</b>	<p><b>TRANSITION 7%</b> TO ELECTRIC VEHICLES    <b>TRANSITION 14%</b> TO ELECTRIC VEHICLES    <b>TRANSITION 27.5%</b> TO ELECTRIC VEHICLES</p> <p><b>STRETCH TARGET: 100% PETROLEUM FUEL FREE LIGHT DUTY VEHICLE FLEET</b> BY 2030</p>		
<b>NON-REVENUE FLEET HEAVY -DUTY</b>	<p><b>STRETCH TARGET: 50% PETROLEUM FUEL FREE HEAVY DUTY VEHICLE FLEET</b> BY 2030</p>		
<b>ENERGY</b> 	<p><b>BENCHMARK UTILITIES</b> IN ENERGY STAR</p> <p><b>PERFORM ENERGY AUDITS</b></p> <p><b>DEVELOP ENERGY SAVING PROJECT IMPLEMENTATION AND FUNDING PLAN</b></p>		<p><b>REDUCE ENERGY USE</b> IN FACILITIES 10% BY 2030</p> <p><b>STRETCH TARGET: REDUCE ENERGY USE</b> IN FACILITIES 75% BY 2030</p> <p><b>IMPLEMENT ENERGY SAVING FUNDED PROJECTS</b></p> 

# CLIMATE ACTION PLAN TARGETS

TARGET	SHORT (1-3 YEARS)	MEDIUM (4-6 YEARS)	LONG (7-10 YEARS)
<b>WATER</b>	<p><b>REDUCE POTABLE WATER USE 35% (3 MILLION GALLONS) BY 2030</b></p> <p><b>STRETCH TARGET: REDUCE POTABLE WATER USE 50% (4.2 MILLION GALLONS) BY 2030</b></p>		
<b>WASTE</b>	<p>INITIATE CARDBOARD/PALLET RECYCLING</p> <p>COORDINATE WITH CONTRACTORS TO REDUCE CONSTRUCTION WASTE</p>	<p>REDUCE CARDBOARD/PALLET RECYCLING 100%</p> <p>CONTINUE TO IDENTIFY AND IMPLEMENT WASTE REDUCTION SOLUTIONS</p>	
<b>RESILIENCY</b>	<p>INCORPORATE CLIMATE VULNERABILITY ASSESSMENT FINDINGS INTO PLANNING, PROCUREMENT, ASSET MANAGEMENT, CONSTRUCTION AND OPERATIONS</p>		
<b>SUSTAINABLE PROCUREMENT</b>	<p><b>IMPLEMENT PROGRAM 10% OF SUPPLIER CONTRACTS BY BUDGET VOLUME</b></p> <p><b>AWARD 25% TO DBE/SBE FY20-22</b></p>	<p><b>EXPAND PROGRAM TO 50%</b></p> <p><b>AWARD 28% TO DBE/SBE FY23-26</b></p>	<p><b>EXPAND PROGRAM TO 75%</b></p> <p><b>AWARD 30% TO DBE/SBE FY27-30</b></p>

# Renewable Diesel Pilot

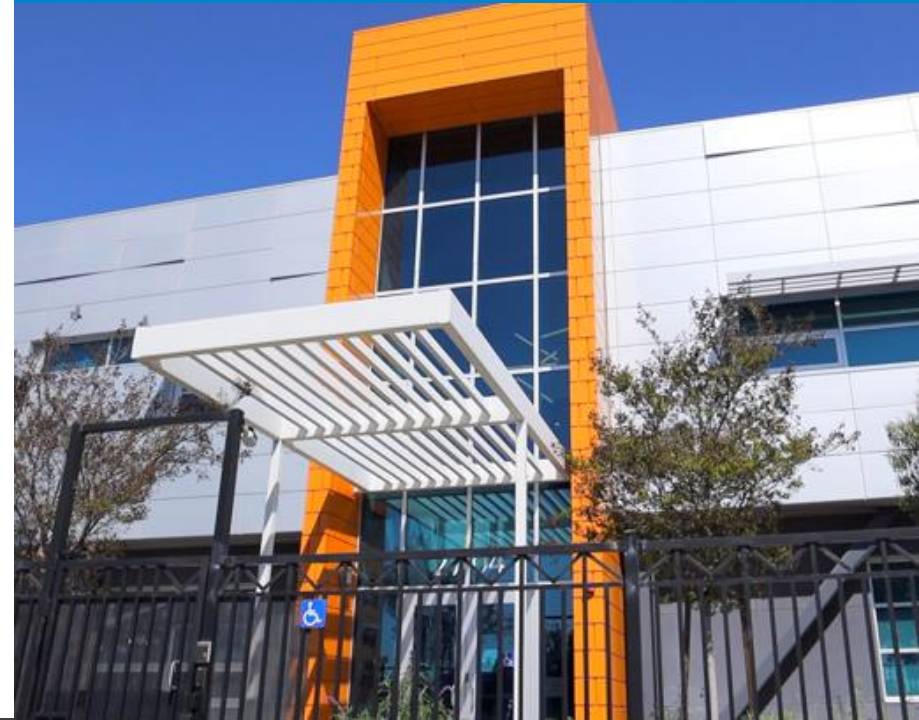
- Tier 2 locomotive Antelope Valley
- Drop-in petroleum replacement
- Derived from plant & animal oils
- Emission reductions in criteria pollutants and up to 80% CO<sub>2</sub>
- Tier 4 pilot commence by July 1<sup>st</sup>
- Bridge fuel to zero emissions





# Green Construction

- Metrolink 10 main facilities total 250,000 SF
- DOC facility is LEED NC Silver
- Goals to seek LEED certification where possible, all construction to meet LEED guidelines
- Initiate construction waste program to minimize landfill impacts
- Completed Facility Modernization Study



# Sustainable Procurement

- Implement sustainable supply chain management program
- Increase supplier diversity to improve social responsibility
- Small Business Partnership Program
- SBE/DBE Targets increase from 25% FY 22-23 to 30% FY 27-30

## Small Business Partnership Program Policy

As a demonstration of Metrolink's commitment to providing greater opportunities for Small Businesses we have adopted a three-prong policy



# Climate Vulnerability Assessment

- Identify network areas most vulnerable to extreme climate events
- Develop climate adaptation strategies to enhance resiliency of rail system
- Identify communities in service areas sensitive to climate hazards
- Protect mobility for communities focusing on equity and transit-dependent

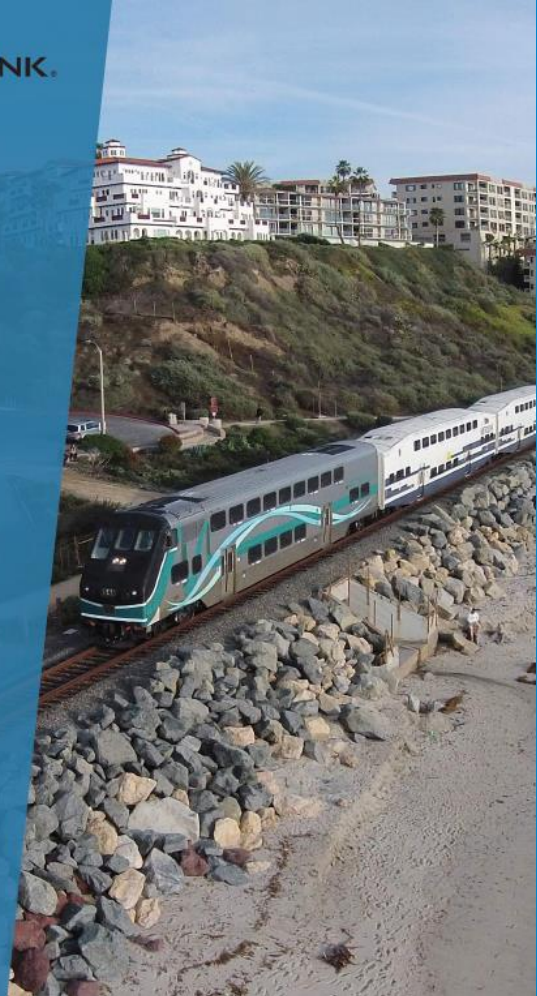


## Blueprint for Climate Adaptation and Event Response

APRIL 2021

This project is supported by a Caltrans SB1 Adaptation Planning Grant

Note: This Blueprint document provides an overview of the Climate Vulnerability Assessment project for Metrolink staff and stakeholders. This is a living document which will be updated during the project.



# Upcoming Construction IFB

Date	Title
May '21	IFB – SCORE Burbank Speed Improvements
May '21	CTO – Devonshire Grade Crossing Improvements
June '21	IFB – SCORE Avery to Songs Signal Improvements
June '21	CTO – Cogswell Ave. Grade Crossing Improvements
July '21	RFP – On-call Project Controls Consultant
Nov '21	IFB – Central Maintenance Facility Upgrades
Jan '22	IFB – SCORE Chatsworth Station Improvements
May '22	IFB – SCORE El Monte Siding
May '22	IFB – SCORE Marengo Siding
May '22	IFB – SCORE Rancho Siding
Late –'22	IFB – San Juan Creek Bridge Replacement
Summer – '23	IFB – SCORE Serra Siding
Summer – '23	IFB – SCORE Simi Valley Siding

# Resources

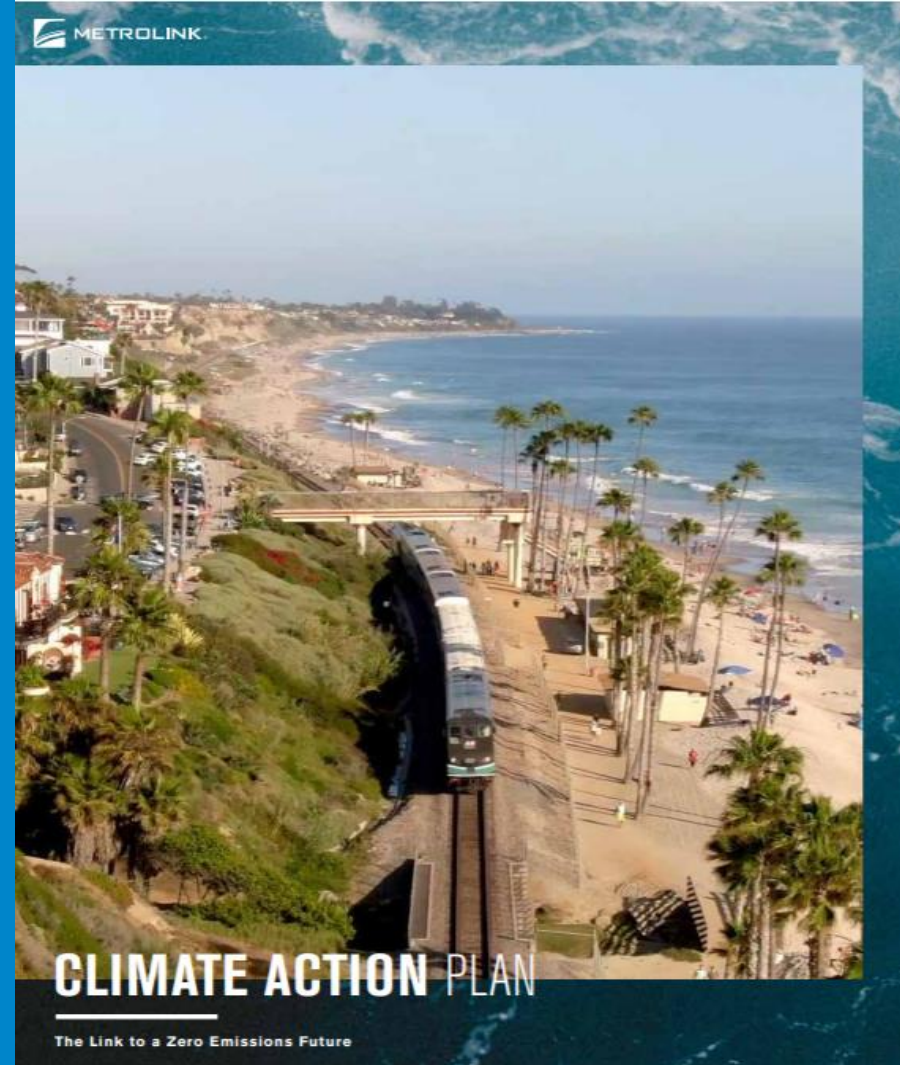
[Climate Action Plan](#)

[SCORE Program](#)

[Small Business Partnership Program](#)

[metrolinktrains.com/sustainability](https://metrolinktrains.com/sustainability)

Contact: Lisa Colicchio  
colicchiol@scrra.net





**THANK YOU**