

# Caltrain Electrification Project Update

Caltrain Bicycle & Active Transportation  
Committee

January 19, 2023



# Project Overview

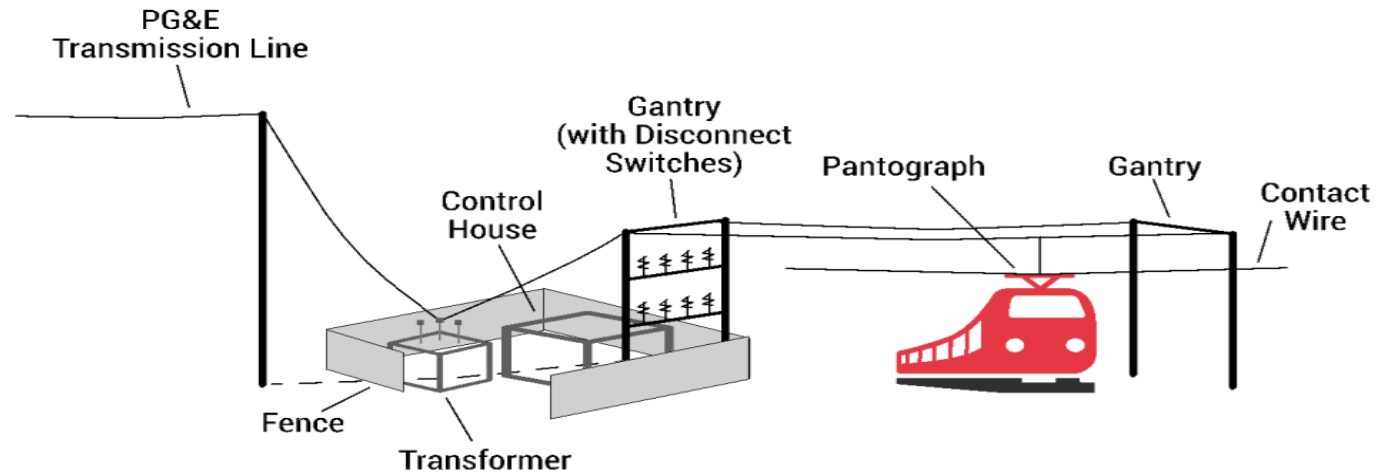
# Project Overview

- San Francisco to San Jose (Tamien Station)
- 51 miles
- Project Cost: \$2.44B
- Revenue Service: fall 2024



# Project Elements

- Electrification
  - Overhead Contact System (OCS)
  - Traction Power Facilities
  - Signal System
- Electric Trains
  - 19 7-car train sets (133 cars)
  - 75% replacement diesel fleet



*(Note: 96 cars funded by project; 37 cars funded by State TIRCP)*

# Project Benefits



Improved Train Performance,  
Increased Service and Greater Capacity

Improved Regional Air Quality and  
Reduced Greenhouse Gas Emissions



Job Creation Locally and  
Across the Country



Reduced Engine Noise  
Emanating from Trains



# **Construction and Service Changes Plan**



# Construction and Service Changes Plan

- 2023
  - Construction completion
  - Infrastructure, signal system, and electric trains testing
  - Temporary service changes required
- 2024
  - Pre-revenue service testing
  - Simulated service runs
  - Operator training
  - Final acceptance & contract closeout
- Fall 2024 Passenger Service

# Overview

- Implement total of 31 weekend area shutdowns in 2023 to complete required testing and address top risks
  - Includes 4 weekends of full corridor shutdowns for end to end testing
- Benefits
  - Ensure Fall 2024 delivery of electrified service
  - Enhance safety by physically separating construction work and passenger service trains
  - Mitigate risk of overhead contact system construction delays due to low contractor productivity (top project risk)
  - Reduce Roadway Worker in Charge (RWIC) field resource need (top project risk)
  - Minimize impact to weekday passenger service by reducing weekday construction needs



# Customer Experience

# Customer Experience Overview

- Customer travel will be impacted
- Key considerations for service changes
  - Customer experience
  - Cost
  - Staff resources
  - Alternative travel options
- Bus bridge service to be implemented for San Francisco to Millbrae weekend shutdowns (Phase 1)
  - Staff to monitor bus bridge effectiveness for future phases

# February to July 2023 – Weekend Shutdowns

Area (Phase)	Work Activity	Weekends	Number of Weekends
San Francisco to Millbrae (Phase 1)	OCS Construction	February 11-12 February 25-26 March 4-5 March 11-12	4
Millbrae to Hillsdale (Phase 2)	OCS Construction	March 25-26 April 1-2	2
Belmont to Menlo Park (Phase 3)	OCS Construction	April 8-9 April 15-16	2
Menlo Park to Santa Clara (Phase 4)	Signal Installation OCS Testing System Integration Testing	April 22-23 April 29-30 May 5-6 May 13-14 May 20-21	5

- No service changes planned for weekends of February 18-19 or March 18-19 for signal install and equipment staging
- Temporary weekday service changes April 17-28 for signal installation and testing
- 2 contingency weekends in June and July

# Phase 1: San Francisco to Millbrae

- Between San Jose/Tamien and Millbrae stations, trains make all weekend local stops
- Customers traveling to/from San Francisco should use alternative transportation, including timed BART transfers at Millbrae
- Lifeline bus bridge available
  - Bike space very limited on buses
  - Buses are not ADA accessible - Passengers needing assistance will be accommodated by on-call paratransit service at affected bus bridge stations
- Service ends earlier to align with BART schedule:
  - The last northbound train will depart San Jose Diridon Station at 10:28p
  - The last southbound bus will depart San Francisco Station at 11:16p
  - The last southbound train will depart Millbrae Station at 12:15a

# August to December 2023

- Up to 16 weekend area shutdowns needed August to December 2023
  - Signal installation and testing
  - Electric train testing
  - Full corridor electric train runs
- Includes 4 weekends of full corridor shutdown in November for end-to-end testing
- Staff is working to refine plan and will provide update in Spring 2023

# Customer Outreach

- Full campaign
- Website Landing page
- Organic social  
(Twitter, FB, IG, Nextdoor, TikTok)
- Paid digital and print ads
- Email blasts
- Mobile app alerts
- Visual messaging signage at stations
- Onboard and station announcements
- Press release
- Amplify message via elected officials, cities, counties
- Updates to key stakeholders, business groups
- Outreach to event venues
- Station ambassadors

FOR MORE INFORMATION

[WWW.CALTRAIN.COM](http://WWW.CALTRAIN.COM)

