

Caltrain Electrification Update

**Citizen's Advisory Committee
August 21, 2024
Agenda Item 8**



Key Milestones

Complete:

- Foundations (3,000+)
- Poles (2,500+)
- Traction Power Facilities (10)
- Overhead Wire (2.5 million feet)
- Upgraded the Signal System San Francisco to San Jose (31 at grade crossings)
- 12 trainsets delivered (1,000 mile passed by 8 trains)
- Over 1,000 First Responders Trained
- Full Corridor Energized
- All Major Construction Complete (May 2024)
- Soft Launch (Summer 2024)

Upcoming:

- Additional trainsets on property and testing (Throughout 2024)
- **Passenger Service: September 2024**



Electric Train Testing

Testing Location	Start Date
Mountain View to San Jose (13 miles)	September 2023
San Mateo to San Jose (31 miles)	March 2024
San Francisco to San Jose (51 miles)	April 2024

Note: Testing will continue until trains enter revenue service in Fall 2024

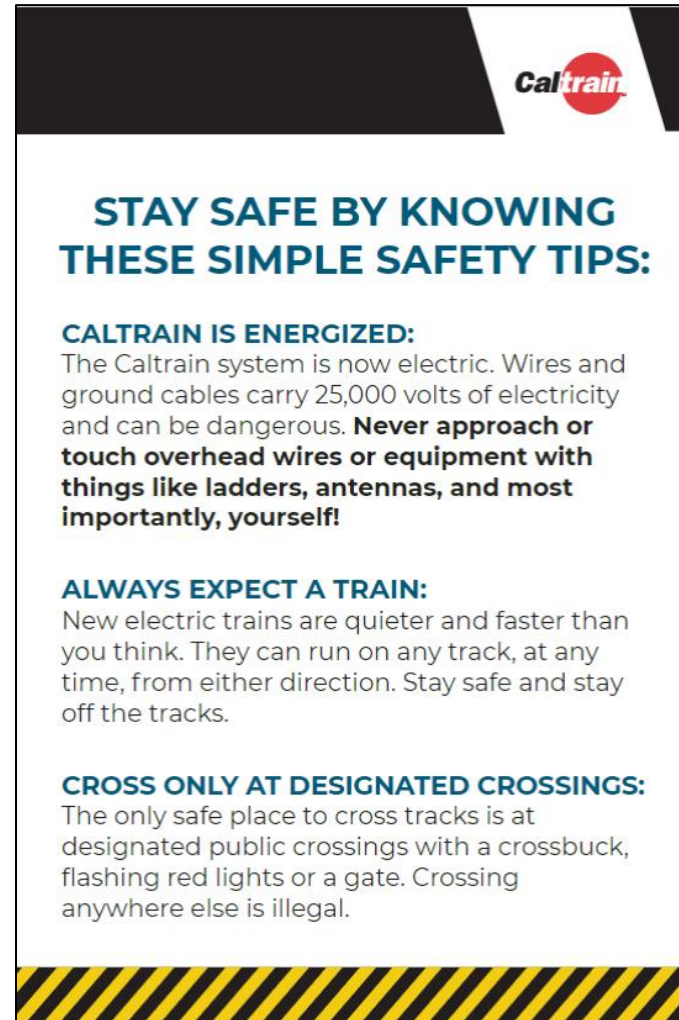
- Each of the 23 trainsets need to be tested for 1,000 miles
- Ten trainsets have completed 1,000 mile tests
- Train testing between 10p-4a most weeknights and daytime on weekends. Two trains running each night starting mid-August
- Residents may hear additional noise from horns, bells, and crossing gates during train movements
- 2-3 test trains expected every hour during testing



Public Outreach Safety Campaign

- Community Meetings
- Residential Mailers
- Onboard Outreach
- School Campaign
- Public Service Announcements
- Right-of-way outreach

**Safety Video at
caltrain.com/safety**



Caltrain

STAY SAFE BY KNOWING THESE SIMPLE SAFETY TIPS:

CALTRAIN IS ENERGIZED:
The Caltrain system is now electric. Wires and ground cables carry 25,000 volts of electricity and can be dangerous. **Never approach or touch overhead wires or equipment with things like ladders, antennas, and most importantly, yourself!**

ALWAYS EXPECT A TRAIN:
New electric trains are quieter and faster than you think. They can run on any track, at any time, from either direction. Stay safe and stay off the tracks.

CROSS ONLY AT DESIGNATED CROSSINGS:
The only safe place to cross tracks is at designated public crossings with a crossbuck, flashing red lights or a gate. Crossing anywhere else is illegal.

Caltrain

Right-of-Way Flyer



Caltrain

STAY AWARE, STAY SAFE.

Caltrain is getting an upgrade: out with diesel, in with electricity! While this change means big improvements for the Caltrain community, it also means new electric overhead wires will be installed to power the new trains. Electric overhead wires can be **dangerous and even life-threatening**. The new electric trains will also be much quieter than the diesel trains. You can stay safe by following a few easy rules:

- **Always wait for the gate**
Even if you can't hear the new trains coming, make sure to wait for the gate to fully rise before crossing.
- **Be mindful of overhead wires**
Caltrain's electric overhead wires carry 25,000 volts of electricity and can be dangerous. Never approach overhead wires with things like ladders, antennas, balloons, and most importantly, yourself!
- **Stay away from damaged wires**
If you see a downed or otherwise damaged overhead wire, stay at least 25 feet away and call the Transit Police at 1.877.SAF.RAIL (1.877.723.7245).

Caltrain Caltrain.com/safety

CALL 1.877.SAF.RAIL
for any emergency on Caltrain, to report suspicious activity, or if you see a damaged electrical wire.

Residential Mailer



Electrified Service Plan Benefits

Improved service for all riders



Get There Faster

Express from SF to SJ
in under an hour

Quicker local service,
77 minutes instead of
100

Save up to 20 minutes
on trips from Southern
Santa Clara County to
SF



Ride More, Wait Less

20% more train service

26% more train service at
equity priority stations

Half-hourly service during
weekends and off-peak



First Class for Everyone

Free Wi-Fi

Smoother, quieter
experience

Outlets at every seat

Digital trip information
onboard

Spacious, accessible
bathrooms



Clean and Green

GHG emissions reduced
by 250K MTCO2
annually – equivalent to
taking 55,000 cars off
the road each year

Improves local air quality

Quieter trains, both
onboard and off



City Fact Sheets

www.caltrain.com/servicebenefits

FASTER, MORE FREQUENT CALTRAIN SERVICE COMING IN FALL 2024

ELECTRIFIED SERVICE PLAN: CITY OF SAN BRUNO

Electric trains enable Caltrain to run faster, more frequent service with the same number of weekday trains we run today. This handout shows the final plans for electric service in fall 2024. The schedule will be finalized in spring 2024, after the new electric trains are tested.



GET THERE FASTER

SAN FRANCISCO TO SAN JOSE IN UNDER AN HOUR
Compared to 65+ minutes today

75 MINUTES FOR THE SAN FRANCISCO TO SAN JOSE LOCAL TRAIN
Compared to 100 minutes today

21 MINUTES SAVED FOR THE SAN FRANCISCO TO GILROY TRIP
Compared to a 2+ hour trip today

CLEAN AND GREEN

ALL-ELECTRIC TRAIN SERVICE FROM SAN FRANCISCO TO SAN JOSE
Annual emissions reduced by 250K MTCO₂, equivalent to taking 55,000 cars off the road

RIDE MORE, WAIT LESS

TRAINS EVERY 30 MINUTES ON WEEKENDS
Compared to hourly service today

TRAINS EVERY 30 MINUTES DURING MID-DAY AND EVENINGS
Compared to hourly service at most stations today

TRAINS EVERY 15 TO 20 MINUTES DURING PEAK HOURS* AT 16 STATIONS
Compared to 7 stations today

FIRST CLASS SERVICE

STATE-OF-THE-ART VEHICLES FOR SMOOTHER RIDES
Free Wi-Fi, outlets at every seat, spacious accessible bathrooms, and digital displays with trip information

FINAL ELECTRIFIED CALTRAIN SERVICE FOR SAN BRUNO

STATIONS	STATION STOPS	CURRENT SERVICE	ELECTRIFIED SERVICE
SAN BRUNO	Stops per Weekday	61	75
	Weekday Stops per Peak Hour*	2	2
	Weekday Stops per Off Peak Hour	1	2
	Weekend Stops per Hour	1	2

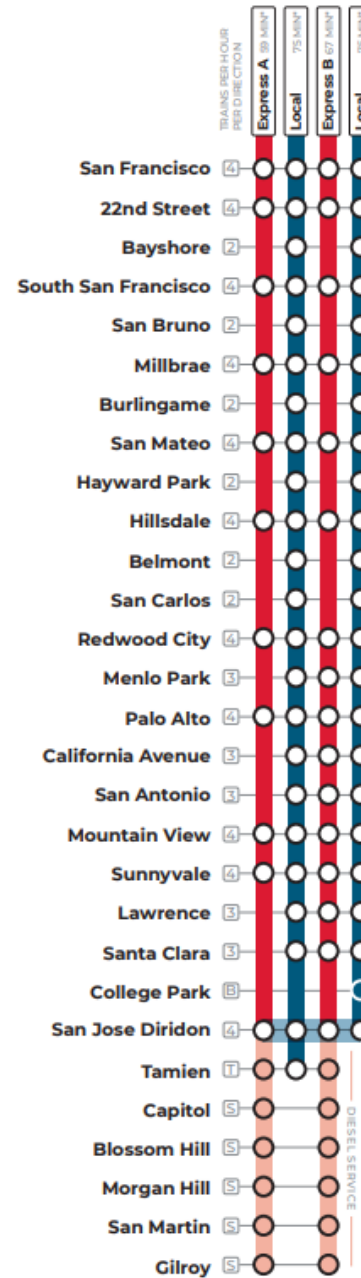
*PEAK HOURS VARY BY STATION, GENERALLY COVERING 6:30AM-9:30AM AND 3PM-7PM ON WEEKDAYS. NOTE: TRAVEL TIMES MAY CHANGE PENDING FURTHER ELECTRIC TRAIN TESTING.

FOR MORE INFORMATION caltrain.com/electrification calmod@caltrain.com

SPRING 2024



FALL 2024 ELECTRIFIED SERVICE WEEKDAY PEAK 1-HOUR SNAPSHOT



GET THERE FASTER

Most people will have quicker rides compared to service today.

Trip travel times below compare the fastest diesel trip today to the fastest trip with electrified service.

SAN BRUNO STATION LOCAL

17 min 0 MINUTES SAVED
To / from San Francisco

30 min 2 MINUTES SAVED
To / from Palo Alto

57 min 3 MINUTES SAVED
To / from San Jose Diridon

B **Bellarmine Service**
2 STOPS PER DAY IN EACH DIRECTION

T **Tamien Service**
2-3 STOPS PER HOUR IN THE PEAK DIRECTION*, AND 1 STOP PER HOUR IN THE REVERSE-PEAK DIRECTION

S **South County Connector Service**
4 DAILY BOUND TRIPS WITH 1-2 DIESEL TRAINS PER HOUR IN THE PEAK DIRECTION*, WITH TIMED 3-MINUTE CROSS-PLATFORM TRANSFER AT DIRIDON

*TRAIN TIMES SHOWN ARE FOR TRAVEL BETWEEN SAN FRANCISCO 4TH AND KING TO SAN JOSE DIRIDON STATION.
**PEAK DIRECTION IS NORTHBOUND IN THE MORNING AND SOUTHBOUND IN THE AFTERNOON.
NOTE: BROADWAY STATION PROVIDES WEEKEND SERVICE ONLY. TRAVEL TIMES MAY CHANGE PENDING FURTHER TESTING AS NEW ELECTRIC TRAINS ARRIVE AND ARE PREPARED FOR SERVICE.

FOR MORE INFORMATION

caltrain.com/electrification calmod@caltrain.com



Soft Launch & Project Celebration

- August 11th: Soft Launch
 - Mixed fleet running same schedule as today
 - Gradually introducing electric trains into service every week to allow for operational testing and crew adaptation
- September 21, 2024: Launch New All Electric Schedule
 - 14 electric trains providing all electric mainline service
 - 4 diesel trains between San Jose and Gilroy with 3-minute cross platform transfer
 - Schedule is finalized and will be posted online for the public by mid-August
 - Corridor-wide celebrations on September 21 & 22



September Launch Parties - September 21 & 22



- Main Events:
 - Palo Alto Station on September 21 from 2-6p
 - San Mateo Station on September 22 from 2-6p
- Events at stations along the corridor
- Launch of Full Electric Service
- Free Caltrain Rides