Caltrain Electrification Update

Caltrain Citizen's Advisory Committee June 21, 2023 Agenda Item 9



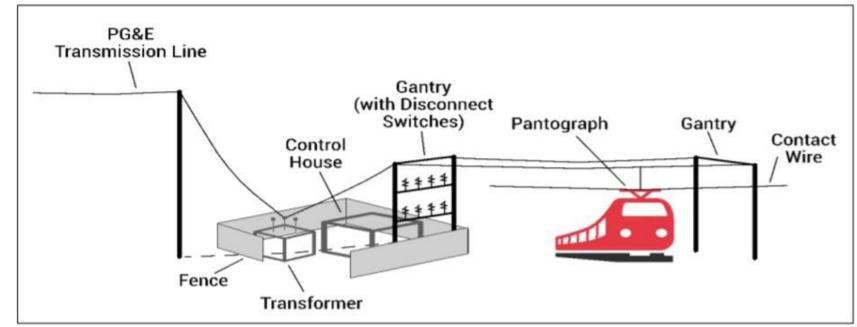


Electrification Project Overview



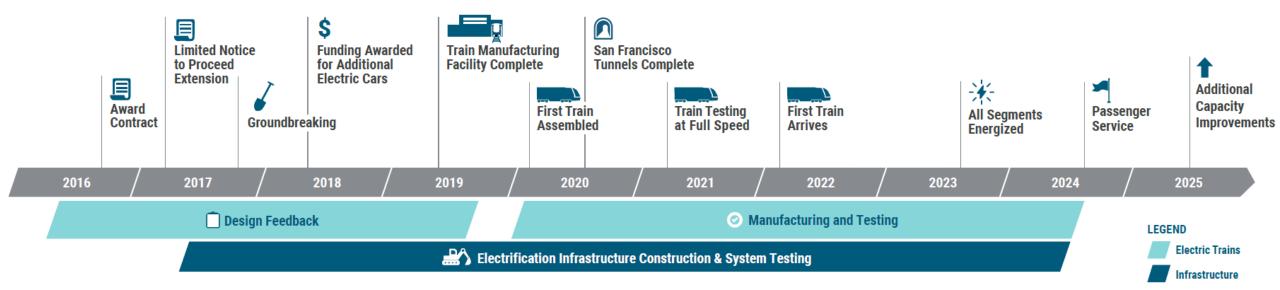
Transition from Diesel to Electric First Electric Commuter Railroad in CA

- 25KV Overhead Contact System (used by highspeed rail system)
- 19 EMU 7-car trainsets (replaces 75% of diesel fleet)
- Two-Speed Check signal system (approved by FRA, UP and CHSRA)





Timeline



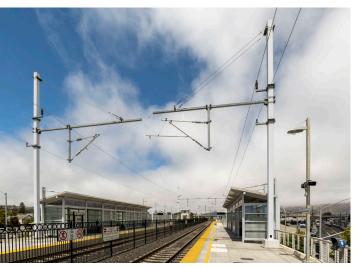


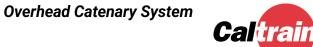
Project Milestones

- Overhead Contact System
 - 99% of poles installed
 - 85% of wire installed
 - Overhead Contact System construction completion in October 2023
- Electric Trains
 - Drill tracks live runs started June 5
 - Main track live runs Summer 2023
 - All train cars in production
 - 4 trainsets on site at Caltrain; next two trainsets expected fall 2023
- Pre-Revenue Service: Spring 2024
- Revenue Service: September 2024



Foundations





Overhead Contact System Production February 6 – June 12, 2023

| Activity | Remaining to Completion as of 2/6 | Planned 2/6-6/12 | Installed 2/20-6/12 | Difference 2/20-6/12 | Remaining to Completion as of 6/12 |
|---------------------------------|---|---------------------|------------------------|-------------------------|--|
| Poles | 73 | 61 | 65 | 4 | 8 |
| Beams | 88 | 69 | 84 | 15 | 4 |
| Cantilevers & Drop Tubes | 1,078 | 621 | 619 | (2) | 459 |
| Feeder & Static Wire Assemblies | 1,242 | 791 | 892 | 101 | 350 |
| Messenger Wire (linear feet) | 256,576 | 116,421 | 125,947 | 9,525 | 130,629 |
| Contact Wire (linear feet) | 271,062 | 146,483 | 138,869 | (7,614) | 132,193 |
| Feeder Wire (linear feet) | 122,684 | 37,093 | 49,452 | 12,359 | 73,232 |
| Static Wire (linear feet) | 109,249 | 16,100 | 36,177 | 20,077 | 73,072 |
| Regulation | 3,063 | 957 | 969 | 12 | 2,094 |



Signal System Update

- Electrified system requires new signal and grade crossing activation system to be installed
- 39 crossings cutover as of May 2023
- Subsequent Crossing Optimization
 Project (separate from Electrification)
 will provide real-time information
 between train and signal system

| City | Number of Crossings | 2 Speed Check Implementation |
|-----------------------|------------------------|---------------------------------|
| San Jose | 2 | Completed |
| Millbrae | 1 | Completed |
| Burlingame | 6 | Completed |
| San Mateo | 9 | Completed |
| South San Francisco | 1 | Completed |
| San Bruno | 1 | Completed |
| Redwood City | 6 | Completed |
| Atherton | 2 | Completed |
| Menlo Park | 4 | Completed |
| Palo Alto (Alma and | 2 | Completed |
| Churchill) | | |
| Palo Alto (Charleston | 2 | Completed |
| and East Meadow) | | |
| Mountain View | 2 | Completed |
| Sunnyvale | 2 | Completed |
| San Francisco | 2 | August 2023 |

Service Changes and Customer Experience



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 | 4 |
| San Francisco to Millbrae (Phase 5) | OCS Construction Signal Installation | June 10-11 June 17-18 | 2 |
| Hillsdale to Palo Alto (Phase 6) | OCS Construction | July 15-16 July 22-23 | 2 |

Potential temporary weekday changes in August to support signal installation and testing

• August to December up to 16 weekend shutdowns



June to July - Regular Service Weekends

Caltrain will run regular weekend service on the following dates:

- June
 - June 24-25: Giants Home Games & Pride Parade
- July
 - July 1-2
 - July 8-9: Giants Home Games
 - July 29-30: Electric Train Tour



May 21, 2023 Bay to Breakers Caltrain Special Service

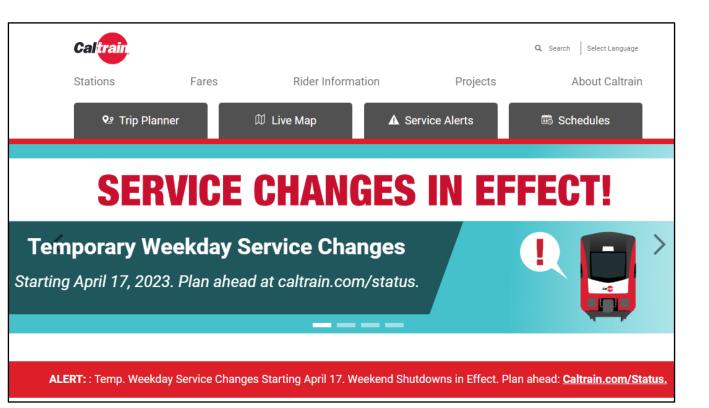


10

Customer Communication

• caltrain.com/status







11

First Public Train Tour - July 29th at San Jose Diridon Station Additional Tours Fall 2023









FOR MORE INFORMATION WWW.CALTRAIN.COM



