



State of California Transit and Intercity Passenger Rail Program

Caltrain Grant Application
Overview

January 2018

TIRCP Program Overview

- The TIRCP provides grants from the Greenhouse Gas Reduction Fund
- Program Goal: provide monies to fund transformative capital improvements that modernize California's intercity rail, bus, ferry and rail transit systems to achieve the following objectives:
 - ✓ Reduction in greenhouse gas emissions;
 - ✓ Expand and improve rail service to increase ridership;
 - ✓ Integrate the rail service of the state's various rail operations, including integration with the high-speed rail system; and
 - ✓ Improve safety
- The California Department of Transportation, in collaboration with CalSTA, will be responsible for administering this program

Caltrain Grant Application

- Requests \$631.5M for “Electrification Expansion”
- Funds will contribute to maximizing the benefits of Caltrain’s Peninsula Corridor Electrification Project (PCEP)
- Procurement of additional EMUs
 - ✓ Supports TIRCP program’s goals by completely eliminating diesel powered passenger service from Caltrain’s mainline and increasing capacity of the system to accommodate regional growth

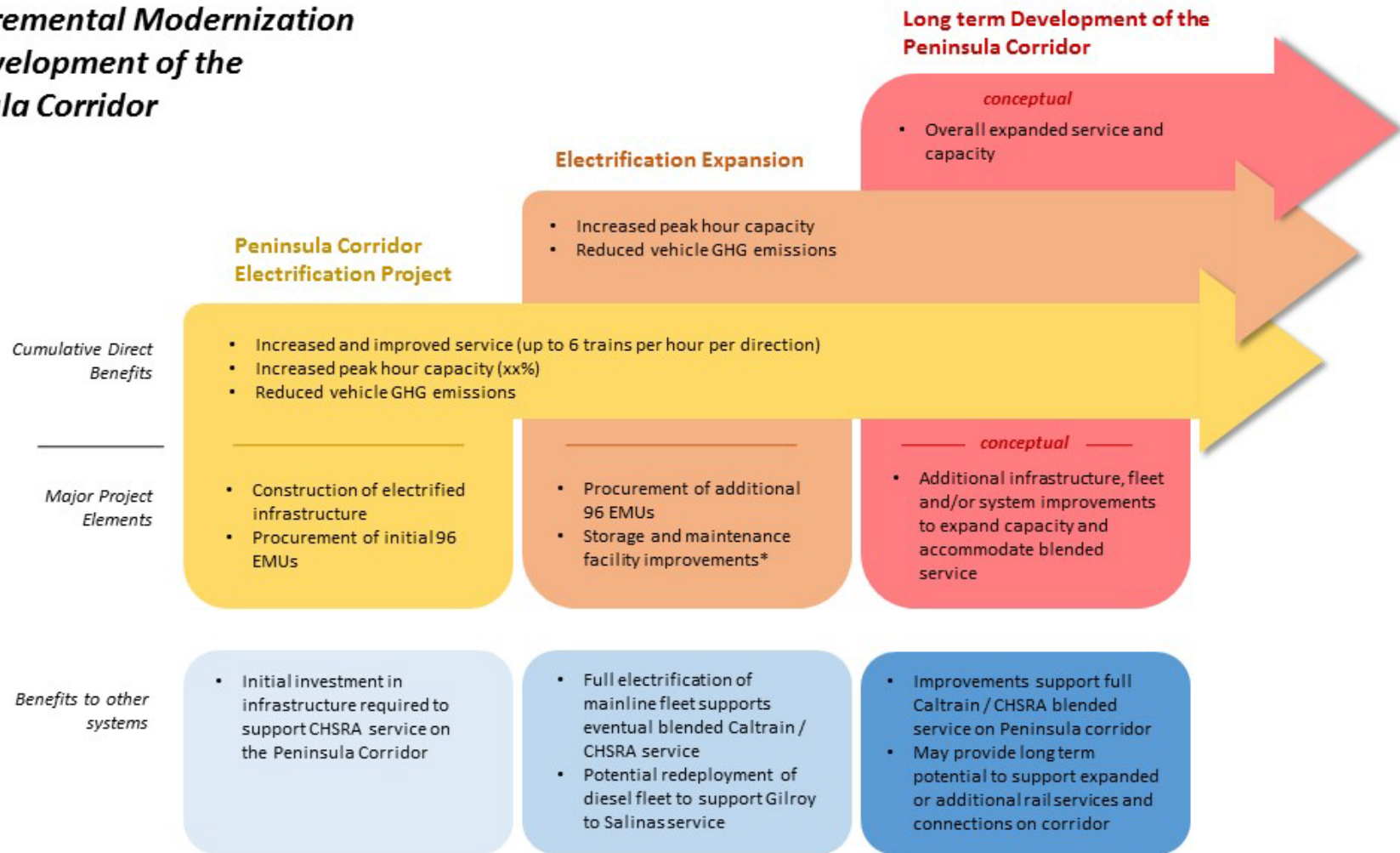
Scope of Grant Application

- Initial Capacity Increase:
 - ✓ Procurement of **40 additional EMUs** to increase capacity of the electrified system by expanding the 6-car EMU to 8-car sets
 - ✓ Minor **modification (lengthening) of platforms** at select stations to accommodate the operation of 8-car EMUs
 - ✓ The implementation of **improved wayside bicycle facilities** throughout the system
 - ✓ **Planning funds** equivalent to 1 percent of the total EMU cost estimate to support the critical development of plans and policy agreements to meet goals and service levels in the draft 2018 State Rail Plan

Scope of Grant Application

- Caltrain System Enhancements:
 - ✓ Install Broadband Communications System to attract additional ridership by providing customer facing Wi-Fi as well as enhanced reliability by creating the capability to conduct remote diagnostics and optimize ongoing maintenance
- Full Conversion of the Caltrain Mainline Fleet
 - ✓ Procurement of 56 additional EMUs to facilitate the operation of a fully electrified fleet of 8-car EMUs

The Incremental Modernization and Development of the Peninsula Corridor



*As described elsewhere in application, modifications to existing storage and maintenance arrangements will be required to support a full 192 EMU fleet. The factors influencing potential storage needs and the range of opportunities and possible solutions are complex and are not yet ripe for a decision. Storage needs will be evaluated further in 2018 to determine the range of options that could be possible. Key factors that remain to be resolved include the potential to share storage and maintenance facilities with other rail operators as well as the ultimate use and deployment of the diesel fleet.



Grant Application Cost

Project Element	Cost
<i>Capacity Improvements</i>	
Procurement of 40 Electric Multiple Units (EMUs)	\$224,700
Minor Platform Modifications	\$8,000
Wayside Bike Parking Improvements	\$3,500
Planning and Agreement Support	\$6,000
Subtotal	\$242,200
<i>System Enhancements</i>	
Broadband Communications	\$14,000
Subtotal	\$14,000
<i>Full Fleet Conversion</i>	
Procurement of 56 Electric Multiple Units (EMUs)	\$375,300
Subtotal	\$375,300
TOTAL	\$631,500

Other Elements:

- There are additional benefits not part of Caltrain's direct funding request that include:
 - ✓ Creation of additional storage and maintenance capacity
 - ✓ Potential redeployment of diesel fleet to support San Jose-Gilroy/Salinas service
 - ✓ Potential use of EMU fleet to support enhanced future Caltrain service levels as part of a larger program of rail enhancements on the Peninsula Corridor
- Additional study is needed for each of these elements

Direct Benefits

- **Increased Ridership based on Capacity Improvements and System Enhancements**
 - ✓ Allows increases in projected future ridership and further reduce greenhouse gas emissions
- **Improved Regional Air Quality and Reduced Greenhouse Gas Emissions related to Vehicle Changes**
 - ✓ Less air pollution compared with diesel trains and improves regional air quality to meet the State's emission reduction goals
- **Safety**
 - ✓ Permits more precise train positioning, schedules, and maintenance; on-board real-time video surveillance helps monitor/assess situations; improves preventative maintenance

Cumulative Benefits

- **Increased service and increased ridership**
 - ✓ More efficient operations enable more frequent and/or faster train service to more riders
 - ✓ Supports service levels contemplated in draft 2018 State Rail Plan horizon year 2040
- **Coordinated Interregional and State Rail Service**
 - ✓ Fully electrified Caltrain prerequisite allowing the development of interregional and state rail network
 - ✓ Key step for blended Caltrain/California High-Speed Rail operations
 - ✓ Potential redeployment of remaining diesel fleet to support improved Gilroy service and/or rail service to Salinas

Stakeholder Support

- **The Metropolitan Transportation Commission (letter of concurrence)**
- **Representative Jackie Speier**
- **Representative Anna Eshoo**
- **Caltrain's State Legislative Delegation:**
 - **Senator Jerry Hill, 13th District**
 - **Senator Jim Beall, 15th District**
 - **Senator Scott Wiener, 11th District**
 - **Senator Bob Wieckowski, 10th District**
- **Assemblymember Phil Ting, 19th District**
- **Assemblymember Marc Berman, 24th District**
- **Assemblymember Evan Low, 28th District**
- **Assemblymember David Chiu, 17th District**
- **Assemblymember Kansen Chu, 25th District**
- **Assemblymember Kevin Mullin, 22nd District**
- **Assemblymember Ash Karla, 27th District**

Stakeholder Support

- California High Speed Rail Authority
- Santa Clara Valley Transportation Authority
- City and County of San Francisco
- San Francisco County Transportation Agency
- Transportation Agency for Monterey County
- Bay Area Council
- City of San Jose
- Capitol Corridor Joint Powers Authority
- Transbay Joint Powers Authority
- Commute.org
- San Mateo County Economic Development Association
- SPUR
- Silicon Valley Leadership Group
- Friends of Caltrain
- Silicon Valley Bicycle Coalition
- San Francisco Bicycle Coalition
- Google
- Facebook
- Genentech
- Stanford University

Questions?

