Green House Gases Emissions Savings (in mtco2e)

520,000

TREE PLANTING IN CALIFORNIA (2014 TO 2029)

VERA 2014 TO 2018

11,000 TO 70,000

TIER IV ENGINES	10,000 TO 26,000
RECYCLING	1,700,000 TO 3,500,000

GREEN CONSTRUCTION 2014 TO 2029

BOOKEND AND CONNECTIVITY (2014 TO 2020 & 2040)

CUMULATIVE BY 2020

CALTRAIN	68,000
CENTRAL SUBWAY	1,200
REGIONAL CONNECTOR	59,000
SCRIP	600
SO-CAL GRADE SEPARATIONS	400

CUMULATIVE BY 2040

CALTRAIN	177,000
CENTRAL SUBWAY	12,000
REGIONAL CONNECTOR	1,200,000
SCRIP	6,600
SO-CAL GRADE SEPARATIONS	4,400

AUTHORITY IMPLEMENTS URBAN FORESTRY PROGRAM

INITIAL OPERATING SECTION OPERATIONAL

BAY TO BASIN

PHASE 1

2014 2020 2025 2030 2035 2040

The Caltrain Electrification Program will reduce an estimated 68,000 tons of CO2 a year starting in 2019

- High-speed rail eliminates 141,000 to 330,000 metric tons of CO2 equivalent in the first year of operation, the equivalent of taking 31,000 passenger vehicles off the road.
- The following activities will reduce an estimated 278,000 to 674,000 net metric tons of CO2 equivalent by 2020: voluntary emissions reduction agreement, construction waste diversion, clean fleet requirement, and urban greening and Caltrain electrification.

HIGH-SPEED RAIL REDUCTIONS IN OPERATIONS

IOS Year 1 (2022) VMT and Air Miles	140,000
Bay to Basin Year 1 (2027) VMT and Air Miles	450,000
Phase 1 Year 1 (2029) VMT and Air Miles	570,000
2030 Cumulative	3,500,000
2040 Cumulative	11,500,000

CALIFORNIA High-Speed Rail Authority

MAY 2014