

HOW ELECTRIFICATION INCREASES SEAT AND BIKE CAPACITY



EFFICIENCY

Electric trains provide more efficient service by accelerating and decelerating faster which reduces travel time.



FREQUENCY

Electrification means Caltrain stations will receive more frequent service.



FLEXIBILITY

With increased frequency and more stops, every seat and bike space will be utilized by more riders during each trip. More efficient utilization means room for more riders.



RELIABILITY

Newer trains mean more reliable service and fewer service interruptions due to breakdowns.



POTENTIAL

CalMod upgrades give us room to grow. High performance vehicles allow us to add more cars and still maintain optimal service.

CAPACITY BY THE NUMBERS

When Caltrain measures the true capacity benefits of Electrification, we consider total system capacity not just the number of seats on a single train.

CURRENT DIESEL FLEET (Mix Of Bombardier and Gallery Cars | 5- and 6-car Train Sets)



MIXED FLEET (Mix of 7-car Diesel Train Sets and 6-car Electric Train Sets)



CALCULATING CAPACITY

These capacity calculations are provided so riders can get a real world sense of how smaller, high-performance trains can increase overall ridership capacity and address overcrowding. Accurately calculating capacity for a transit system has to take into account many variables, including: frequency, travel time, and space utilization rates. This graphic doesn't show the additional capacity increases that are gained when you factor in turnover rate (with electric trains Caltrain will be able to implement a more efficient schedule and pickup and drop off additional passengers on a single trip) and all day increased service.

*Electric trains will meet a 1:8 bike to seat ratio.