

CalMod



Electric Train Design & Public Input

Onboard Bike Storage

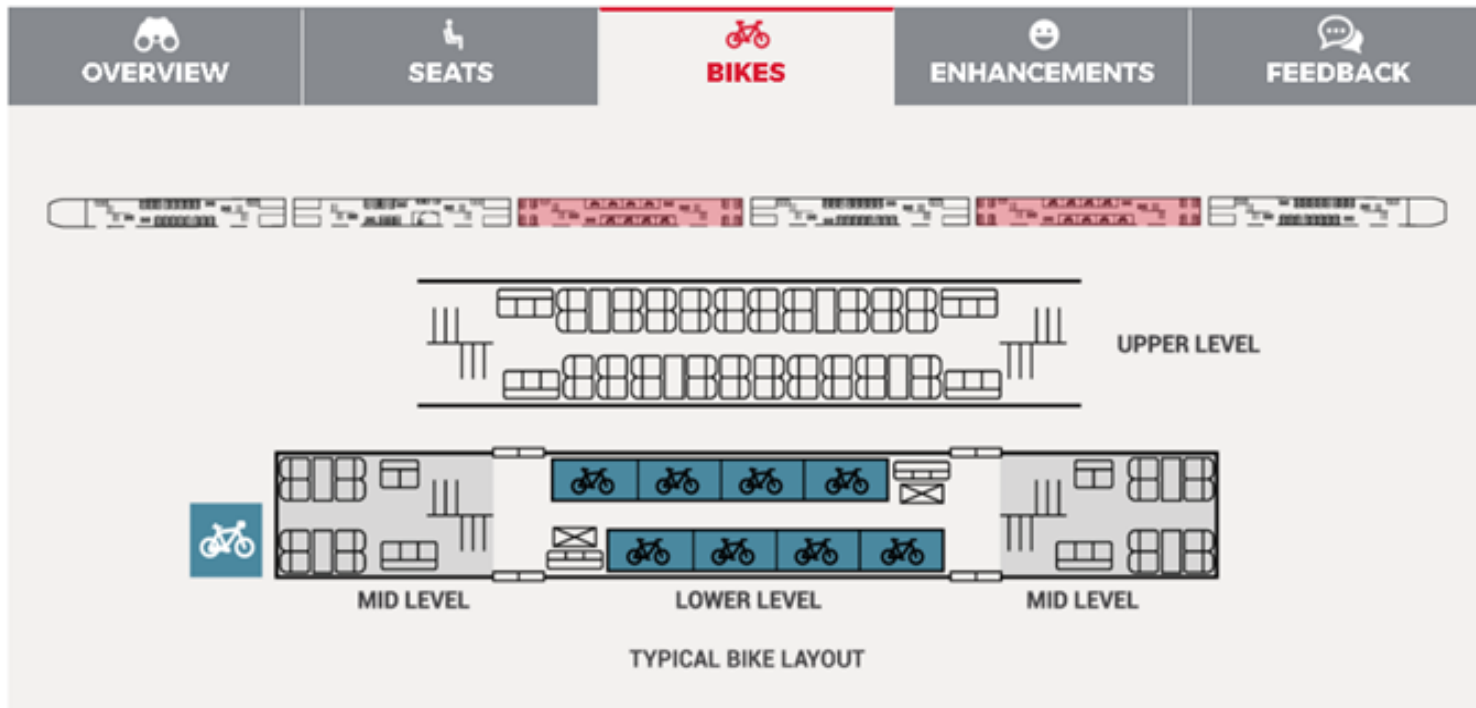


EMU Onboard Bike Storage Timeline Overview

- Samples Arrived: early August 2017
- Outreach Events , Poll, Social/Media: August 8 to September 1, 2017
- Public feedback paired with technical analysis: August through September 2017
- BAC Special Meeting: August 24, 2017
- Discussion with bike community reps: September 2017
- Determination: End of September 2017



Bike Car Configuration Constraints



- Bike ratio 1:8
- 1 ADA lavatory per trainset
- Seat capacity: FFGA 10% increase requirement



Determination: Stacking Option

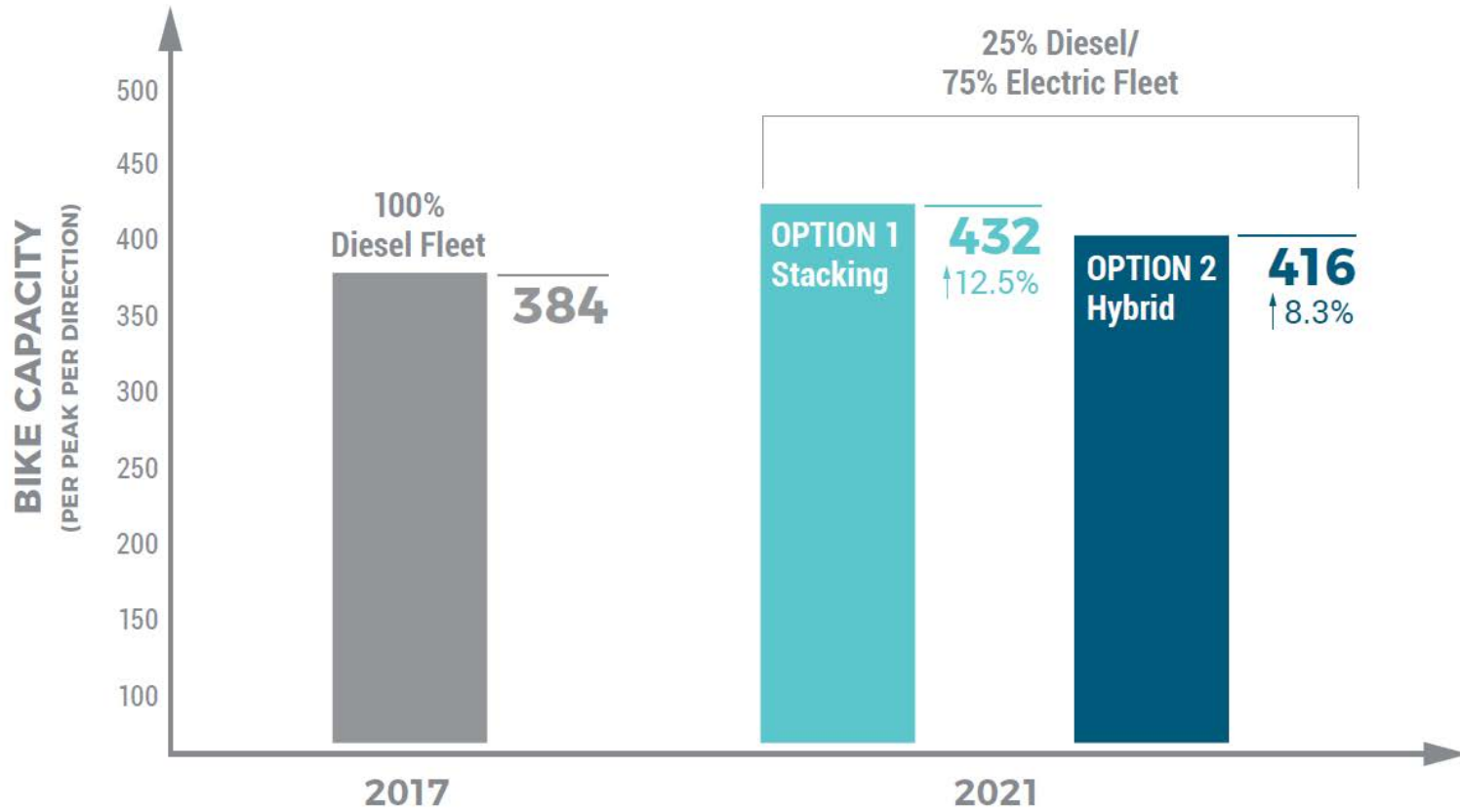


Option	Bikes per trainset	Seats per trainset	Ratio	*Percent Increase
Stacking	72	567	1:7.8	12.5%
Hybrid	68	573	1:8.4	8.3%

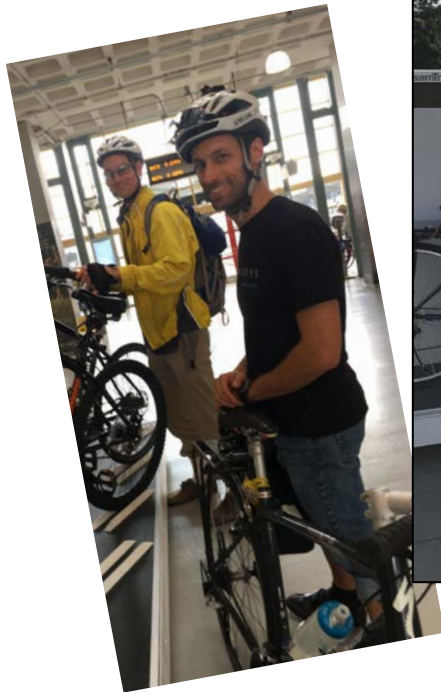


*Additional train and frequency benefits associated with PCEP results in increase from today (per peak hour, per direction)

BIKE CAPACITY



EMU Onboard Bike Storage Outreach



Station Outreach with Samples: August 8 to September 1



EMU Onboard Bike Storage Website Written Comments

- Stacked preference = 27%
 - Riders who chose the stacking option preferred it due to current capacity issues.
 - A few commented on its ability to accommodate different bike types/sizes.
- Hybrid preference = 24%
 - Riders who favored the hybrid option mostly preferred it because of easy storage.



Week of 7/23/2017 through 8/31/2017

EMU Onboard Bike Storage Website Written Comments cont.

- Other = 33%
 - Riders mentioned their inability to lift their bike.
 - Some people want a combination of both the hybrid and stacking options in different parts of the train.
- Bike theft = 16%
 - There is concern over bike theft in general and the effectiveness of cameras to prevent it.
 - A few commenters prefer to have seats in close proximity to bikes for added vigilance



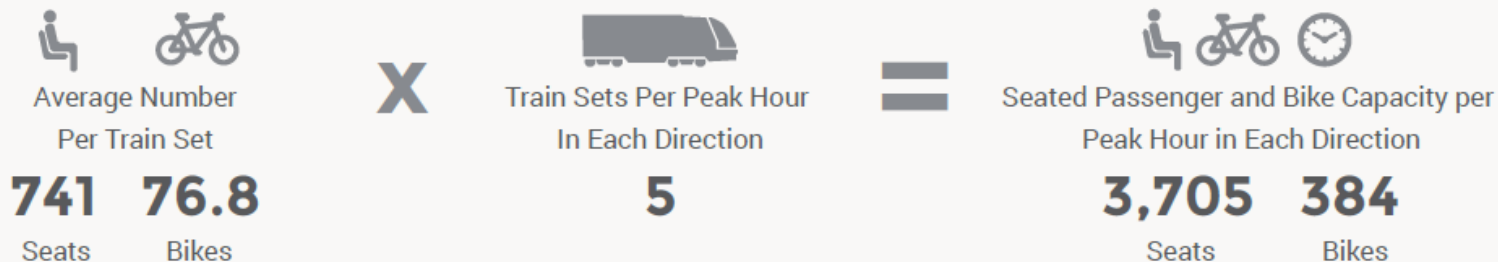
EMU Onboard Bike Storage Outreach Continued

- BAC recommends stacking option: August 24
- Bike Coalitions
 - Refined storage option details
 - Support stacking option
- Direct emails to Board and BAC
 - Over 100 received
 - Approximately 98% recommending maximum capacity

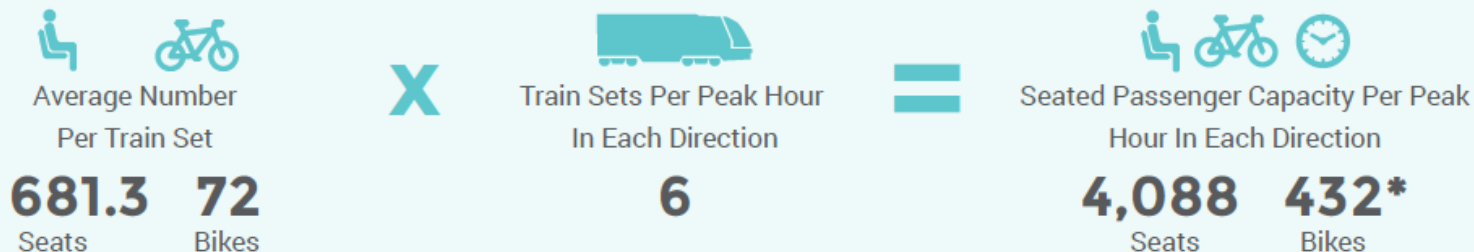


EMU Capacity

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)



- 12.5% increase in bike capacity
- 10.3% increase in seat capacity
- 31% increase in seat + standing capacity



EMU Onboard Bike Storage



Folding Bikes

- Seats cantilevered
- Can fit certain models (e.g. Brompton 23" x 22.2" x 10.6") under seats



Questions

