

SFO

San Francisco  
International  
Airport

# SFO Vehicle Emissions Reduction Initiatives



December 1, 2017





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# SFO by the Numbers

## FY 16/17

- 53.9 Million Annual Passengers
- 58 airlines
- 125 nonstop routes (46 international)
- 205,289 landings

## Direct Economic Impact @ Airport (CY 2015)

- \$7.9 Billion in business activity
- 39,000 jobs

## Land Use

- 5,200 acres total area
- 2,700 acres (Operational use)
- 2,500 acres (Natural tidelands and undeveloped land)



# Clean Vehicle Policy

- Since 2000, select categories of commercial ground transportation – including courtesy shuttles - have been incentivized to use low-emission vehicles if available, affordable, and practical
- 500 vehicles refuel with renewable CNG at competing on-Airport fueling stations
- By 2015, Airport CNG was sourced from landfills at an average carbon intensity of 30
- The on-Airport bus fleet is powered by renewable CNG
- 100 Airport-owned vehicles operate on renewable diesel
- 90% of the taxi fleet is hybrid-electric

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# Hotel Shuttle Consolidation

- In 2000, SFO established a new fee tier for hotel courtesy shuttles - triple the basic rate
- Hotels could avoid the increase if they reduced trips by one third and acquired only CNG or equivalent vehicles
- Solution: hire contractors operating larger CNG vehicles servicing multiple hotels on a single trip
- By 2007, over 50 hotels had courtesy shuttle service, up from 36. But total trips were down by one third, and the fleet was almost 100% CNG-powered
- SFO facilitated but didn't guarantee vehicle grant funding

# Electric Vehicles at SFO

- In 2003, BART extended its regional rail service to SFO, soon used by 10% of air passengers
- Also in 2003, SFO launched the Airtrain automated train system, replacing high-sulfur diesel buses
- >75% of new light-duty vehicle acquisitions for the Airport's own fleet will be battery-electric
- 40% of aircraft GSE is electric
- SFO offers the public and employees approximately 200 stalls to park and charge EVs
- We are currently scoping our future electric power needs in preparation for significant added EV demand

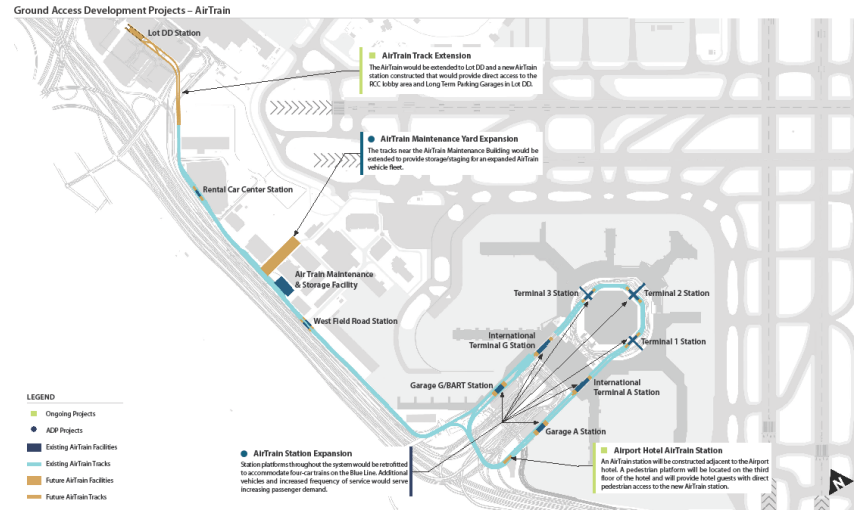
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# Airtrain Extension

- By 2020, Airtrain will extend to the Long-Term Parking Garage, allowing SFO to retire most of its CNG bus fleet
- We will shortly issue an RFP for 6 battery-electric transit buses to provide residual service to remote parking areas





# Questions?

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