

SAN FRANCISCO  
MUNICIPAL TRANSPORTATION AGENCY  
BOARD OF DIRECTORS

RESOLUTION No. 180515-080

WHEREAS, The San Francisco Municipal Transportation Agency has been one of the nation's leaders in supporting sustainable, reduced or zero emissions revenue transit vehicles; and,

WHEREAS, The SFMTA currently operates a fleet of low-emission electric hybrid vehicles which run on renewable diesel and the largest fleet of zero emissions electric trolley vehicles in North America; and,

WHEREAS, SFMTA has been aggressively pursuing and implementing the latest in reduced or zero emission technologies; and,

WHEREAS, The SFMTA has replaced its older diesel buses with cleaner, more efficient electric hybrid vehicles. Electric hybrid vehicles offer dramatically lower fuel consumption, decreased engine idle time while in service, and a substantial reduction in emissions; and,

WHEREAS, The switch from conventional diesel to diesel hybrid vehicles has reduced SFMTA's consumption of fuel by 5.4 million gallons and 82,000 tons of CO<sub>2</sub> over the 12-year life of the fleet; and,

WHEREAS, The SFMTA has taken steps toward converting its series electric hybrid vehicles to zero emissions battery buses, starting with the implementation of engine auto stop-start functionality in 54 buses which will reduce idling time and allow for vehicles to drive short distances entirely under battery power; and,

WHEREAS, While the SFMTA achieved many of the strategies in the 2004 Clean Air Plan, we cannot meet the 2020 goal of zero-emission vehicles outlined in the Plan due to lack of industry progress in fuel cell technology; and,

WHEREAS, In Fall 2018, the SFMTA will purchase 54 new electric hybrid buses with higher capacity on-board battery systems, allowing the SFMTA to run a test program to operate "Green Zones" along several electric hybrid routes: and,

WHEREAS, The "Green Zones" will be serviced by electric hybrid vehicles operating entirely on battery power with the vehicle engines off, and will encompass up to 25 percent engine off, zero emission driving daily; and,

WHEREAS, In 2019, the SFMTA intends to purchase a limited number of zero-emission battery electric buses and test them in revenue service throughout San Francisco to evaluate how they perform on crowded and hilly routes, and allow staff to evaluate the facility upgrades needed to house an all-electric fleet; and,

WHEREAS, The SFMTA will also begin a pilot program to explore the possibility of converting its existing electric hybrid vehicles into plug-in battery electric buses by replacing the hybrid diesel powertrains with battery packs in the Fall 2018; and,

WHEREAS, The battery conversion pilot program will pave the way towards a significant conversion of SFMTA's existing hybrid fleet; and,

WHEREAS, The SFMTA will conduct an assessment of each of its facilities to determine the infrastructure requirements to support a battery electric fleet; and,

WHEREAS, The SFMTA will incorporate the electric bus charging requirements into future facility planning; and,

WHEREAS, On April 30, 2018, the SFMTA, under authority delegated by the Planning Department, determined that the Zero Emission Resolution is not defined as a "project" under the California Environmental Quality Act (CEQA) pursuant Title 14 of the California Code of Regulations Sections 15060(c) and 15378(b); and,

WHEREAS, A copy of the CEQA determination is on file with the Secretary to the SFMTA Board of Directors, and is incorporated herein by reference; now, therefore, be it

RESOLVED, That the SFMTA Board of Directors hereby commits to start procuring zero emission battery buses to replace the electric hybrid vehicles by 2025, with a goal of achieving a 100% electric vehicle fleet by 2035.

I certify that the foregoing resolution was adopted by the San Francisco Municipal Transportation Agency Board of Directors at its meeting of May 15, 2018.



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Secretary to the Board of Directors  
San Francisco Municipal Transportation Agency