

1 [Support of Requirements for Installation of Electric Vehicle Chargers Ordinance File Number:
2 170202]

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4 **Resolution urging the Board of Supervisors and the Mayor to adopt File Number**
5 **170202, an Ordinance amending the Green Building Code to establish requirements for**
6 **installation of electric vehicle charger infrastructure in new buildings or buildings**
7 **undergoing major alterations (Electric Vehicle Readiness Ordinance).**

8 WHEREAS, The City and County of San Francisco has a duty to protect the natural
9 environment, the economy, and the health of its citizens; and,

10 WHEREAS, Pollutants from operation of internal combustion motor vehicles, such as
11 particulates and nitrous oxides, contribute to respiratory distress, can trigger heart attacks,
12 and increase the risk of lung cancer; and,

13 WHEREAS, The American Lung Association estimates that reduction in criteria air
14 pollutant emissions due to adoption of electric vehicles can save Californians \$13 billion in
15 health care costs per year by 2030; and,

16 WHEREAS, As a coastal city located on the tip of a peninsula, San Francisco is
17 vulnerable to sea level rise; and,

18 WHEREAS, Human activities releasing greenhouse gases into the atmosphere are
19 increasing worldwide average temperature, which contributes to melting of glaciers and
20 thermal expansion of ocean water – resulting in rising sea levels; and,

21 WHEREAS, San Francisco is already experiencing the repercussions of rising sea
22 levels that threaten the City’s shoreline and infrastructure, cause erosion, and impact
23 infrastructure during extreme tides; and,

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1 WHEREAS, increasing the adoption of electric vehicles will help San Francisco meet
2 its goals under Ordinance No. 81-08, to reduce greenhouse gas emissions citywide to 40%
3 below 1990 levels by 2025, and 80% by 2050; and,

4 WHEREAS, Electric vehicles are fueled by electricity; and,

5 WHEREAS, Electric vehicle adoption depends upon convenient access to charging,
6 and the ability to serve electric vehicles in existing buildings is commonly limited by the
7 electrical system capacity of the building; and,

8 WHEREAS, The most cost-effective time to prepare building electrical infrastructure for
9 electric vehicle charging is when electric service is installed or upgraded due to construction,
10 because workers are already on-site, infrastructure for electric vehicle charging need only pay
11 the marginal costs of increased utility service, permitting, construction project management,
12 and financing, and marginal cost is much less than full cost; and,

13 WHEREAS, Half of the electric vehicles on the road in the US are in California; and,

14 WHEREAS, The San Francisco Bay Area is a global hub of plug-in electric vehicle
15 adoption, with electric vehicles accounting for nearly 6% of new vehicle registrations in 2016;
16 and,

17 WHEREAS, California requires that by 2025 a minimum of 22% of vehicles sold in
18 California by each auto manufacturer must be Zero Emission Vehicles (“ZEVs”); and,

19 WHEREAS, California’s goal is to have 1.5 million ZEVs on the road by 2025, and
20 sales of electric vehicles to date have exceeded projections; and,

21 WHEREAS, Battery electric vehicles are the most widely available category of ZEVs
22 and account for the vast majority of sales of ZEVs; and,

23 WHEREAS, Adoption of clean transportation supports innovation in technologies such
24 as charging management and battery storage, which provide new opportunities to build upon
25 San Francisco’s strengths in supporting the clean energy economy; and,

1 WHEREAS, Electric vehicles support new possibilities for consuming clean electricity,
 2 and will provide new opportunities to balance loads on the electrical grid in order to
 3 accommodate increased supply of distributed renewable electricity resources; and,

4 WHEREAS, Mayor Edwin M. Lee and Supervisor Katy Tang introduced legislation that
 5 would amend the Green Building Code to establish requirements for installation of electric
 6 vehicle charger infrastructure in new buildings and buildings undergoing major alterations;
 7 now, therefore, be it,

8 RESOLVED, That the Commission on the Environment urges the Board of Supervisors
 9 and the Mayor to adopt File Number 170202, an ordinance to establish requirements for
 10 electric vehicle readiness in San Francisco; and, be it,

11 FUTHER RESOLVED, That the Commission on the Environment recognizes that the
 12 Electric Vehicle Readiness Ordinance will help the City and County of San Francisco meet its
 13 goal of 100% renewable energy use in San Francisco by the year 2030.

14 I hereby certify that this Resolution was adopted at the Commission on the
 15 Environment’s Meeting on March 28, 2017.

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Anthony Valdez, Commission Affairs Manager

Vote:
 Ayes:
 Noes:
 Absent: