

1 [Ordinance Requiring Smart Grid-Capable Electric Meters]

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3 **Ordinance requiring the use of smart grid-capable meters when any electric meter is**
4 **installed or replaced within the City or County of San Francisco.**

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6 Be it ordained by the People of the City and County of San Francisco:

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8 **Sec. 1. Findings.**

9 Smart grid systems that allow real-time, two-way digital communications between
10 electric utilities and their customers and across all parts of the electric distribution network,
11 can greatly improve the efficiency and reliability of electric distribution systems and facilitate
12 conservation by enabling real-time demand response pricing and distribution network
13 efficiency and reliability.

14 Smart grid systems constitute critical infrastructure that can provide disaster prevention
15 and recovery capabilities, prevent power outages, and reduce the severity and length of
16 power outages that do occur.

17 Smart grid systems will permit the City and County to take full advantage of distributed
18 generation resources such as plug-in hybrid electric vehicles, fuel cells, and solar energy
19 facilities, (including residential and enterprise rooftop solar), which will increase energy
20 efficiency, lower customer prices, stimulate innovation, create new jobs, limit greenhouse gas
21 emissions and decrease dependence on imported oil.

22 **Sec. 2. Definitions.**

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23 (a) Electric Delivery System—The power lines and related transmission and distribution
24 facilities used by an electric utility to deliver electric energy.

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1 (b) Smart Grid System—Widespread use of two-way digital information and controls
2 technology and associated equipment and software, including equipment installed on electric
3 customers' premises, utilizing electric distribution lines or utilizing other equipment or
4 technology, that provides real-time diagnostic, automated and other interactive technologies
5 that optimize the physical operation of appliances and consumer devices for metering, electric
6 distribution grid operations and status, and distribution automation through the use of
7 ubiquitous sensors, high-speed two-way communications and diagnostic software.

8 (c) Electric Meter—A device installed for purposes of measuring the quantity of electric
9 power delivered to a consumer or business electric user.

10 (d) Smart Grid-Capable Meter—An electric meter that (i) is compatible with, and
11 capable of interoperating with, a smart grid system; and (ii) has the capability to measure and
12 record, and to deliver via a smart grid system, electricity usage data to support the real-time
13 two-way functionality of a smart grid system.

14 **Section 3. Smart Grid-Capable Meters Required.**

15 As of the effective date of this ordinance, any electric meter installed within the City or
16 County of San Francisco must be a smart grid-capable meter. This requirement applies both
17 to new electric meter installations and to replacements of existing electric meters. Each such
18 smart grid-capable meter should, to the extent feasible and cost-effective, be capable of being
19 used for metering of retail water usage.

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21 APPROVED AS TO FORM:
22 Dennis Herrera, City Attorney

23 By: _____
24 ATTORNEY'S NAME
25 Deputy City Attorney

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****Michela Alioto-Pier****
BOARD OF SUPERVISORS