

AMENDED IN ASSEMBLY APRIL 21, 2014

AMENDED IN ASSEMBLY MARCH 28, 2014

CALIFORNIA LEGISLATURE—2013–14 REGULAR SESSION

ASSEMBLY BILL

No. 2529

Introduced by Assembly Member Williams

February 21, 2014

An act to add Section 25327 to the Public Resources Code, relating to energy.

LEGISLATIVE COUNSEL'S DIGEST

AB 2529, as amended, Williams. Energy: usage: plug-in equipment.

Existing law requires the State Energy Resources Conservation and Development Commission (Energy Commission), on a biennial basis, to conduct assessments and forecasts of all aspects of energy industry supply, production, transportation, delivery, and distribution. Existing law requires the Energy Commission, beginning November 1, 2003, and biennially thereafter, to adopt an integrated energy policy report containing an overview of major energy trends and issues facing the state.

Under existing law, the Public Utilities Commission has regulatory jurisdiction over the public utilities, including electrical corporations.

This bill would require the Energy Commission and the Public Utilities Commission, working jointly, to perform a baseline ~~study~~ *study, by January 1, 2016*, of energy usage by plug-in equipment, as defined, ~~in 2014 during the year 2014~~, and to develop a coordinated implementation plan to achieve by 2030 specified aggregate reductions in energy consumption by plug-in equipment from the 2014 baseline, with biennial intermediate targets. The bill would require the Energy

Commission to report on the progress towards meeting the reduction targets and update the implementation plan as a part of the integrated energy policy report.

Vote: majority. Appropriation: no. Fiscal committee: yes.
State-mandated local program: no.

The people of the State of California do enact as follows:

1 SECTION 1. (a) The Legislature finds and declares all of the
2 following:

3 (1) Energy efficiency programs and standards are essential tools
4 to help California conserve energy.

5 (2) Currently, *the various types of* plug-in equipment, such as
6 indoor and outdoor appliances, consumer and office electronics,
7 and power tools, are responsible for ~~nearly 60~~ *over 50* percent of
8 residential ~~building~~ electricity consumption *and 16 percent of*
9 *commercial electricity consumption* in California ~~and their this~~
10 ~~electricity consumption~~ *are is* projected to increase by 2030.

11 (3) California has set ambitious goals for energy efficiency in
12 buildings and lighting, but does not have quantified goals for a
13 category that represents the majority of residential ~~building~~
14 electricity consumption.

15 (4) Large and cost-effective energy savings opportunities remain
16 available in plug-in equipment ~~through a combination of incentive~~
17 ~~programs, partnerships with industry, research and development,~~
18 ~~consumer education, and efficiency standards.~~ *equipment. There*
19 *is a need to supplement appliance efficiency standards by*
20 *expanding existing incentive programs and developing other*
21 *approaches including partnerships with industry, research and*
22 *development, and consumer education.*

23 ~~(5) Challenges with the attribution of business and consumer~~
24 ~~electronics program savings to utilities and implementers are~~
25 ~~limiting the effective utilization of these programs to capture~~
26 ~~savings opportunities in residential and commercial plug-in~~
27 ~~electronics.~~

28 (5) *Market barriers, such as a lack of consumer awareness and*
29 *information on product lifetime energy costs, and split incentives*
30 *between manufacturers who make the key design decisions and*
31 *consumers who pay the electricity bill give efficiency programs a*

1 *critical role in realizing the economic potential for energy*
2 *efficiency in plug-in equipment.*

3 *(6) Challenges with the evaluation and the attribution of*
4 *program savings to utilities and implementers, as well as the focus*
5 *on short-term savings, are limiting the utilities' ability to achieve*
6 *market transformation saving opportunities that take longer to*
7 *implement and require upfront investment to yield large future*
8 *savings.*

9 (b) It is the intent of the Legislature to set a goal for plug-in
10 equipment energy consumption to ensure both of the following:

11 (1) Energy savings opportunities in support of the state's energy
12 and climate change goals are captured.

13 (2) The effective utilization of incentive programs, partnerships
14 with industry, research and development, consumer education, and
15 efficiency standards to meet the state's energy and climate goals.

16 SEC. 2. Section 25327 is added to the Public Resources Code,
17 to read:

18 25327. (a) (1) For the purposes of this section, except as
19 provided in paragraph (2), "plug-in equipment" means an electrical
20 device that plugs into a wall outlet, including, but not limited to,
21 indoor appliances, such as kitchen and laundry appliances,
22 commercial plug-in refrigeration, and security appliances; outdoor
23 appliances, such as hot ~~tubs~~ *tub* and pool ~~pumps and heaters;~~
24 ~~pumps~~; consumer and office electronics; personal care products;
25 and power tools.

26 (2) "Plug-in equipment" does not include the following:

27 (A) Servers at industrial-scale data centers located in buildings
28 whose primary function is to be a data center.

29 (B) Heating, ventilation, and cooling (HVAC) equipment.

30 (C) Built-in or portable lighting.

31 (D) Infrastructure loads connected directly to the building
32 wiring, such as Ground Fault Circuit Interrupter (GFCI) breakers
33 and outlets, smoke or carbon monoxide detectors, dimming
34 switches, doorbells, and garage openers.

35 (E) Electric vehicles.

36 (F) Medical devices, as defined in subsection (h) of Section 321
37 of Title 21 of the United States Code.

38 (b) The commission and the Public Utilities Commission,
39 working jointly, shall do all of the following:

1 (1) ~~Perform~~ *On or before January 1, 2016, perform* a baseline
2 study of energy use by plug-in equipment in *both the* residential
3 and commercial sectors of the state ~~in~~ *during the year* 2014.

4 (2) Develop a coordinated implementation ~~plan~~ *plan, in*
5 *consultation with stakeholders*, to achieve by 2030 at least a ~~30~~
6 25-percent aggregate reduction in energy consumption per
7 residential household, and ~~50~~ *a* 40-percent aggregate reduction in
8 energy consumption per square foot of commercial space, by
9 plug-in equipment in the state from the 2014 baseline determined
10 pursuant to paragraph (1), with biennial intermediate targets
11 between 2016 to 2030. *The coordinated implementation plan shall*
12 *meet all of the following requirements:*

13 (A) *Be comprised of a complementary portfolio of techniques,*
14 *applications, and practices that may include, but need not be*
15 *limited to, incentive programs, rebate programs, partnerships with*
16 *industry to promote innovation, research and development, public*
17 *outreach and education efforts, and efficiency standards.*

18 (B) *Consider costs and ratepayer protections, consistent with*
19 *Section 25000.1.*

20 (C) *Use an accurate cost-effectiveness methodology for*
21 *assessing the long-term value of efficiency savings and ensure that*
22 *benefits outweigh costs to ratepayers.*

23 (3) Work with stakeholders to address challenges that may *limit*
24 *or inhibit* the achievement of the reduction targets set forth in
25 paragraph (2), including, but not limited to, the ~~attribution of~~
26 ~~energy savings associated with business and consumer electronics~~
27 *evaluation and attribution of energy savings, and the enablement*
28 *of market transformation programs.*

29 (4) Track the implementation of the plan in meeting the
30 reduction targets annually through the Electricity Supply Analysis
31 Division of the commission and the Energy Division of the Public
32 Utilities Commission.

33 (5) *Revise the implementation plan and priorities in consultation*
34 *with stakeholders.*

35 (c) The commission shall report on the progress towards meeting
36 the reduction targets through the tracking pursuant to paragraph
37 (4) of subdivision (b) and update the implementation plan, as a

- 1 part of the integrated energy policy report required pursuant to
- 2 Section 25302.

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