

AMENDED IN ASSEMBLY JUNE 1, 2015

AMENDED IN ASSEMBLY APRIL 6, 2015

CALIFORNIA LEGISLATURE—2015–16 REGULAR SESSION

ASSEMBLY BILL

No. 33

Introduced by Assembly Member Quirk

December 1, 2014

An act to add ~~Sections~~ *Section* 38561.5 and 38561.7 to the Health and Safety Code, relating to greenhouse gases.

LEGISLATIVE COUNSEL'S DIGEST

AB 33, as amended, Quirk. California Global Warming Solutions Act of 2006: ~~Climate Change~~ *Energy Integration* Advisory Council.

The California Global Warming Solutions Act of 2006 establishes the State Air Resources Board as the state agency responsible for monitoring and regulating sources emitting greenhouse gases. ~~The act requires the state board to adopt a statewide greenhouse gas emissions limit, as defined, to be achieved by 2020 equivalent to the statewide greenhouse gas emissions levels in 1990. The act requires the state board to prepare and approve a scoping plan for achieving the maximum technologically feasible and cost-effective reductions in greenhouse gas emissions. The California Renewables Portfolio Standard Program requires the Public Utilities Commission to implement annual procurement targets for the procurement of eligible renewable energy resources for all retail sellers to achieve the targets and goals of the program.~~

This bill would establish the ~~Climate Change~~ *Energy Integration* Advisory Council in state government and would ~~assign~~ *require* the council ~~specified duties, including, among others, developing to develop~~

recommendations for inclusion in the scoping plan prepared by the state board, including, among others, an analysis of the various strategies to achieve the statewide greenhouse gas emissions limit. The bill also would require the state board to establish consistent metrics to accurately quantify reductions in greenhouse gas emissions, quantify public health benefits, and measure the cost-effectiveness of the various strategies identified by the council. necessary for the energy grid to integrate specified annual procurement targets as part of the California Renewables Portfolio Standard Program.

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. The Legislature finds and declares all of the~~
- 2 ~~following:~~
- 3 ~~(a) Climate change is a global emissions problem.~~
- 4 ~~(b) California is responsible for approximately 1 percent of the~~
- 5 ~~world's global greenhouse gas emissions and, thus, needs to~~
- 6 ~~address the problem of climate change with a global perspective.~~
- 7 ~~(c) Significant technological advances and major policy~~
- 8 ~~initiatives that can be deployed at scale in developed and~~
- 9 ~~developing countries will be necessary to transition away from~~
- 10 ~~fossil fuel as the primary fuel source to allow the developed and~~
- 11 ~~developing countries of the world to achieve low-carbon economic~~
- 12 ~~growth.~~
- 13 ~~(d) It is in the best interest of the state to ensure that greenhouse~~
- 14 ~~gas emissions reduction goals are achievable by strategies that~~
- 15 ~~other states and countries could reasonably adopt.~~
- 16 ~~(e) Demonstrating effective climate change policy can increase~~
- 17 ~~the likelihood that other states and countries will follow~~
- 18 ~~California's lead, which is necessary for the state to have a~~
- 19 ~~significant effect on the global climate change problem.~~
- 20 ~~SEC. 2.~~
- 21 ~~SECTION 1. Section 38561.5 is added to the Health and Safety~~
- 22 ~~Code, to read:~~
- 23 ~~38561.5. (a) The Climate Change Energy Integration Advisory~~
- 24 ~~Council is hereby established in state government, and it shall~~
- 25 ~~consist of all of the following: following members:~~
- 26 ~~(1) The chair of the state board, or his or her designee.~~

1 (1) *The chair of the State Energy Resources Conservation and*
2 *Development Commission, or his or her designee.*

3 (2) The president of the Public Utilities Commission, or his or
4 her designee.

5 ~~(3) The chair of the governing board~~ *president* of the California
6 Independent System Operator, or his or her designee.

7 (4) The chair of the State Water Resources Control Board, or
8 his or her designee.

9 ~~(5) The chair of the State Energy Resources Conservation and~~
10 ~~Development Commission, or his or her designee.~~

11 (5) *The chair of the state board, or his or her designee.*

12 (b) The council, as recommendations for inclusion in the scoping
13 plan developed pursuant to Section 38561, shall complete all of
14 the following:

15 (1) Develop an analysis of *the various strategies to achieve the*
16 *statewide greenhouse gas emissions limit, including, but not limited*
17 *to, all of the following:*

18 ~~(A) Strategies~~ *strategies* necessary for the energy grid to
19 integrate a 40-percent, a 50-percent, and a greater than 50-percent
20 standard as part of the California Renewables Portfolio Standard
21 Program (Article 16 (commencing with Section 399.11) of Chapter
22 2.3 of Part 1 of Division 1 of the Public Utilities Code) in order
23 to minimize and eliminate over-generation and the need for
24 curtailment, including, but not limited to, all of the following:

25 (i)

26 (A) Deepening regional coordination in the western
27 interconnection.

28 (ii)

29 (B) Increasing energy storage.

30 ~~(iii)~~

31 (C) Retrofitting existing baseload electrical generation facilities
32 in order that they may perform as peaking electrical generation
33 facilities.

34 (iv)

35 (D) Using renewable energy generation facilities as peaking
36 electrical generation facilities.

37 (v)

38 (E) Allowing for very ~~low-carbon-fossil-fuel~~ *low-carbon fossil*
39 *fuel* peaking electrical generation facilities by deploying carbon
40 capture and storage.

- 1 ~~(vi)~~
- 2 ~~(F) Encouraging demand response through both of the following:~~
- 3 ~~(Ⓐ)~~
- 4 ~~(i) Transitioning to time-of-use pricing for residential buildings.~~
- 5 ~~(Ⓑ)~~
- 6 ~~(ii) Increasing customer access to real-time or near-real-time~~
- 7 ~~energy usage data.~~
- 8 ~~(B) Strategies to increase energy efficiency in both commercial~~
- 9 ~~and residential buildings, including, but not limited to, all of the~~
- 10 ~~following:~~
- 11 ~~(i) Validating existing energy efficiency programs against actual~~
- 12 ~~energy usage data.~~
- 13 ~~(ii) Optimizing heating and cooling systems.~~
- 14 ~~(iii) Transitioning to the electrification of buildings.~~
- 15 ~~(C) Strategies to advance the transportation sector, including,~~
- 16 ~~but not limited to, all of the following:~~
- 17 ~~(i) Increasing the fuel economy of light-duty vehicles.~~
- 18 ~~(ii) Examining strategies for reducing emissions from~~
- 19 ~~heavy-duty vehicles, such as through the use of natural gas, biogas,~~
- 20 ~~and biodiesel.~~
- 21 ~~(iii) Increasing the market for low-carbon and very low-carbon~~
- 22 ~~fuels.~~
- 23 ~~(iv) Building electric vehicle infrastructure and low-carbon and~~
- 24 ~~very low-carbon vehicle infrastructure.~~
- 25 ~~(2) Develop an economic assessment using the best available~~
- 26 ~~economic models and data of the various greenhouse gas emissions~~
- 27 ~~reduction strategies required to achieve the statewide greenhouse~~
- 28 ~~gas emissions limit. *to be analyzed pursuant to paragraph (1).*~~
- 29 ~~(3) Develop an analysis of the benefits to the health, safety, and~~
- 30 ~~welfare of state residents, worker safety, the state’s environment~~
- 31 ~~and quality of life, and any other benefits associated with the~~
- 32 ~~various greenhouse gas emissions reduction strategies to achieve~~
- 33 ~~the statewide greenhouse gas emissions limit. *required to be*~~
- 34 ~~*analyzed pursuant to paragraph (1).*~~
- 35 ~~(c) The information developed pursuant to subdivision (b) is~~
- 36 ~~intended to assist in establishing state policy and does not change~~
- 37 ~~any statute, regulation, or regulatory decision.~~
- 38 ~~SEC. 3. Section 38561.7 is added to the Health and Safety~~
- 39 ~~Code, to read:~~

1 ~~38561.7. The state board shall establish consistent metrics to~~
2 ~~accurately quantify reductions in greenhouse gas emissions,~~
3 ~~quantify public health benefits, and measure the cost-effectiveness~~
4 ~~of the various strategies identified by the Climate Change Advisory~~
5 ~~Council pursuant to Section 38561.5 in order to achieve the~~
6 ~~statewide greenhouse gas emissions limit.~~

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