

AMENDMENTS TO ASSEMBLY BILL NO. 525

Amendment 1

In the heading, in line 4, after “Members” insert:

Bauer-Kahan,

Amendment 2

In the heading, in line 4, after “Bennett,” insert:

Berman,

Amendment 3

In the heading, in line 4, after “Calderon,” insert:

Chen, Irwin,

Amendment 4

In the heading, in line 6, strike out “Coauthor: Senator” and insert:

Coauthors: Senators Cortese, Laird, and

Amendment 5

On page 3, in line 1, strike out “joint agency report” and insert:

2021 SB 100 Joint Agency Report

Amendment 6

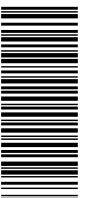
On page 3, in lines 2 and 3, strike out “demonstrated both of the following: (1) That California will need” and insert:

conducted portfolio modeling that selected

Amendment 7

On page 3, in line 4, strike out “its” and insert:

the state’s



Amendment 8

On page 3, in line 4, strike out “goals at least”, strike out line 5 and insert:

goals, finding a total reduction in total resource costs by an estimated one billion dollars (\$1,000,000,000).

Amendment 9

On page 3, in line 6, strike out “(2) That” and insert:

(d)

Amendment 10

On page 3, in line 6, strike out “will” and insert:

may

Amendment 11

On page 3, in line 6, strike out “34” and insert:

48

Amendment 12

On page 3, in line 8, strike out “140” and insert:

145

Amendment 13

On page 3, in line 10, strike out “(2017-18)”

Amendment 14

On page 3, between lines 10 and 11, insert:

(e) Diversity in energy resources and technologies lowers overall costs. Offshore wind can add resource and technology diversity to the state’s energy portfolio.

Amendment 15

On page 3, in line 11, strike out “(d)” and insert:

(f)

Amendment 16

On page 3, in line 17, strike out “(e)” and insert:

(g)

Amendment 17

On page 3, in line 21, strike out “(f)” and insert:

(h)

Amendment 18

On page 3, strike out lines 22 and 23 and insert:

congestion.

Amendment 19

On page 3, in line 24, strike out “(g)” and insert:

(i)

Amendment 20

On page 3, in line 27, strike out “(h)” and insert:

(j)

Amendment 21

On page 3, between lines 32 and 33, insert:

(k) In 2016, California initiated a collaborative process with the federal government through the formation of the Bureau of Ocean Energy Management California Intergovernmental Renewable Energy Task Force, which includes a broad public outreach process to examine potential wind leasing areas in federal waters. The federal Bureau of Ocean Energy Management identified areas in Humboldt, Morro Bay, and Diablo Canyon as the first three potential offshore wind “call areas” and issued a call for nominations of interest in 2018.

(l) The Bureau of Ocean Energy Management California Intergovernmental Renewable Energy Task Force has developed and collected important data and information relevant to the assessment of potential offshore wind energy resources, including the creation of the California Offshore Wind Energy Gateway, which assembles geospatial information on ocean wind resources, ecological and natural resources, commercial and recreational ocean uses, and community values and makes this information publicly available.

(m) Offshore wind should be developed in a manner that protects coastal and marine ecosystems. The State of California should use its authority under state programs and policies to ensure (1) avoidance, minimization, and mitigation of significant adverse impacts, and (2) monitoring and adaptive management for offshore wind projects and their associated infrastructure.

(n) The President of the United States and federal Departments of Interior, Energy, and Commerce have announced a shared goal to deploy 30,000 megawatts of offshore wind energy by 2030, employing tens of thousands of workers, protecting biodiversity, and promoting ocean co-use.

Amendment 22

On page 3, in line 38, after “(a)” insert:

(1)

Amendment 23

On page 4, in line 1, after the comma insert:

the Independent System Operator,

Amendment 24

On page 4, in lines 3 and 4, strike out “to achieve a goal of at least 10,000 megawatts of” and insert:

for

Amendment 25

On page 4, in line 5, strike out “by 2040, with an”, strike out line 6 and insert:

in federal waters.

(2) Development of the strategic plan shall incorporate, but not delay, progress to advance responsible development of offshore wind in other relevant policy venues.

Amendment 26

On page 4, in lines 8 and 9, strike out “June 1,” and insert:

December 31,

Amendment 27

On page 4, in line 15, after “findings” insert:

and recommendations

Amendment 28

On page 4, in line 16, strike out “25991.1.” and insert:

25991.2.

Amendment 29

On page 4, in line 17, strike out “development,” and insert:

development and identification of port space and infrastructure,

Amendment 30

On page 4, in line 18, strike out “findings resulting from activities undertaken” and insert:

plan developed

Amendment 31

On page 4, strike out line 19 and insert:

25991.3.

Amendment 32

On page 4, in line 21, strike out “25991.3.” and insert:

25991.4.

Amendment 33

On page 4, in line 23, strike out “25991.4.” and insert:

25991.5.

Amendment 34

On page 4, between lines 38 and 39, insert:

25991.1. (a) On or before March 1, 2022, the commission shall evaluate and quantify the maximum feasible capacity of offshore wind to achieve reliability, ratepayer, employment, and decarbonization benefits and shall establish megawatt offshore wind planning goals for 2030 and 2045.

(b) In establishing the goals pursuant to subdivision (a), the commission shall consider all of the following:

(1) The findings of the 2021 joint report issued pursuant to Section 454.53 of the Public Utilities Code.

(2) The need to develop a skilled and trained offshore wind workforce.

(3) The potential to attract supply-chain manufacturing for offshore wind components throughout the Pacific region.

(4) The need for reliable renewable energy that accommodates California’s shifting peak load.

(5) The generation profile of offshore wind off the coast of California.

(6) The need for economies of scale to reduce the costs of floating offshore wind.

(7) The need to initiate long-term transmission and infrastructure planning to facilitate delivery of offshore wind energy to Californians.

(8) The availability of federal tax incentives for offshore wind investments.

(9) The National Renewable Energy Laboratory report finding that California has 200 gigawatts of offshore wind technical power potential.

(10) The opportunity for California to participate in the federal government’s intention to deploy 30,000 megawatts of offshore wind by 2030 and to create a pathway to unlocking 110,000 megawatts by 2050.

(11) Any executive action from the Governor regarding offshore wind.

Amendment 35

On page 4, in line 39, strike out “25991.1.” and insert:

25991.2.(a)

Amendment 36

On page 4, in line 39, strike out “commission” and insert:

commission, in coordination with the California Coastal Commission, Department of Fish and Wildlife, Ocean Protection Council, and State Lands Commission,

Amendment 37

On page 4, in line 39, strike out “key”

Amendment 38

On page 4, in line 40, strike out “state” and insert:

other state, local,

Amendment 39

On page 5, in line 2, strike out “at least 10,000 megawatts of”, strike out lines 3 to 6, inclusive, and insert:

the offshore wind planning goals established pursuant to Section 25991.1, as follows:

(1) The commission shall first identify the sea space identified by the federal Bureau of Ocean Energy Management in its 2018 call for nominations, as published in the Federal Register, Volume 83, Number 203, on October 19, 2018, and any other relevant information necessary to achieve the 2030 offshore wind planning goal established pursuant to Section 25991.1.

(2) The commission, in coordination with the California Coastal Commission, Department of Fish and Wildlife, Ocean Protection Council, and State Lands Commission, shall next identify suitable sea space for a future phase of offshore wind leasing to accommodate the 2045 offshore wind planning goal established pursuant to Section 25991.1.

(b) In identifying suitable sea space, the commission shall consider all of the following:

(1) Existing data and information on offshore wind resource potential and commercial viability.

(2) Existing and necessary transmission and port infrastructure.

(3) Protection of cultural and biological resources with the goal of prioritizing least-conflict ocean areas.

(c) In fulfilling the requirements of this section, the commission shall incorporate the information developed by the Bureau of Ocean Energy Management California Intergovernmental Renewable Energy Task Force.

(d) The commission shall use the California Offshore Wind Energy Gateway to provide relevant information developed pursuant to this section to the public.

(e) The commission, in coordination with the California Coastal Commission, the Department of Fish and Wildlife, the Ocean Protection Council, the State Lands Commission, stakeholders, other state, local, and federal agencies, and the offshore wind energy industry, shall make recommendations to address potential environmental impacts and use conflicts, such as monitoring, mitigation, and adaptive management, consistent with California’s long-term renewable energy and greenhouse gas emission reduction goals.

(f) Nothing in this section is intended to modify the authority of state agencies over project-specific siting and permitting.

(g) The findings and recommendations resulting from activities undertaken pursuant to this section shall be included in the chapter of the strategic plan relating to the identification of sea space as specified in paragraph (1) of subdivision (c) of Section 25991.

Amendment 40

On page 5, in line 7, strike out “25991.2.” and insert:

25991.3.

Amendment 41

On page 5, in line 7, strike out “The” and insert:

Based on the sea spaces identified pursuant to Section 25991.2, the

Amendment 42

On page 5, in line 7, strike out “consultation” and insert:

coordination

Amendment 43

On page 5, in line 8, strike out “assess and”

Amendment 44

On page 5, in line 9, strike out “existing”

Amendment 45

On page 5, between lines 13 and 14, insert:

(b) The plan developed pursuant to subdivision (a) shall include all of the following:

Amendment 46

On page 5, strike out line 14, in line 15, strike out “include a” and insert:

(1) A

Amendment 47

On page 5, in line 18, strike out “detail” and insert:

consider

Amendment 48

On page 5, in line 19, strike out “existing” and insert:

current

Amendment 49

On page 5, in line 20, strike out “and”

Amendment 50

On page 5, in line 21, strike out “restrictions.” and insert:

restrictions, and potentially impacted natural and cultural resources.

Amendment 51

On page 5, strike out line 22, in line 23, strike out “analyze” and insert:

(2) An analysis of the

Amendment 52

On page 5, in line 23, strike out “for” and insert:

of

Amendment 53

On page 5, in line 25, strike out the first “and”

Amendment 54

On page 5, in line 26, strike out “work. The assessment shall also analyze” and insert:

work, and

Amendment 55

On page 5, strike out line 30, in line 31, strike out “consider and make recommendations” and insert:

(3) Recommendations

Amendment 56

On page 5, in line 34, strike out the second “hiring,” and insert:

hiring standards,

Amendment 57

On page 5, strike out line 36, in line 37, strike out “include consultation” and insert:

(c) In developing the plan pursuant to subdivision (a), the commission shall consult

Amendment 58

On page 5, below line 39, insert:

(d) The plan developed pursuant to this section shall be included in the chapter of the strategic plan relating to economic and workforce development and identification of port space and infrastructure as specified in paragraph (2) of subdivision (c) of Section 25991.

Amendment 59

On page 6, in line 1, strike out “25991.3.” and insert:

25991.4.

Amendment 60

On page 6, in line 4, strike out “at least 10,000 megawatts of” and insert:

the 2030 and 2045

Amendment 61

On page 6, in line 4, strike out “energy”, strike out line 5 and insert:

planning goals established pursuant to Section 25991.1.

(b) The findings resulting from activities undertaken pursuant to this section shall be included in the chapter of the strategic plan relating to transmission planning as specified in paragraph (3) of subdivision (c) of Section 25991.

Amendment 62

On page 6, strike out lines 6 to 14, inclusive, in line 15, strike out “25991.4.” and insert:

25991.5.

Amendment 63

On page 6, in line 15, strike out “(1)”

Amendment 64

On page 6, in line 16, strike out “state” and insert:

local, state, and federal

Amendment 65

On page 6, in line 16, after “agencies” insert:

and interested California Native American tribes

Amendment 66

On page 6, in line 21, strike out “(2)” and insert:

(b)

Amendment 67

On page 6, in line 22, strike out “state” and insert:

local, state,

Amendment 68

On page 6, in line 26, strike out “state” and insert:

local, state, and federal

Amendment 69

On page 6, strike out lines 33 to 37, inclusive, and insert:

(c) The working group shall provide an opportunity for stakeholder input in the development and communication of the permitting program.

(d) The findings resulting from activities undertaken pursuant to this section shall be included in the chapter of the strategic plan relating to permitting as specified in paragraph (4) of subdivision (c) of Section 25991.

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PROPOSED AMENDMENTS TO ASSEMBLY BILL NO. 525

CALIFORNIA LEGISLATURE—2021–22 REGULAR SESSION

ASSEMBLY BILL

No. 525

**Introduced by Assembly Members Chiu, Cunningham, and
Friedman**

(Principal coauthor: Senator Eggman)

**(Coauthors: Assembly Members *Bauer-Kahan*, *Bennett*, *Berman*,
Calderon, *Chen*, *Irwin*, *Quirk*, and *Ting*)**

~~(Coauthor: Senator)~~ **Coauthors: Senators *Cortese*, *Laird*, and *Wiener*)**

February 10, 2021

An act to add Chapter 14 (commencing with Section 25991) to
Division 15 of the Public Resources Code, relating to energy.

LEGISLATIVE COUNSEL'S DIGEST

AB 525, as introduced, Chiu. Energy: offshore wind generation.

The 100 Percent Clean Energy Act of 2018 established as a policy of the state that eligible renewable energy resources and zero-carbon resources supply 100% of retail sales of electricity to California end-use customers and 100% of electricity procured to serve all state agencies by December 31, 2045. The act requires the Public Utilities Commission (PUC), State Energy Resources Conservation and Development Commission (Energy Commission), and State Air Resources Board to, as part of a public process, issue a joint report to the Legislature by January 1, 2021, and every 4 years thereafter, that includes specified information relating to the implementation of the policy.

Existing law requires the PUC and the Energy Commission to undertake various actions in furtherance of meeting the state's clean energy and pollution reduction objectives.



RN2111648

Amendments 1, 2 & 3

Amendment 4

This bill would require the Energy Commission, on or before March 1, 2022, to evaluate and quantify the maximum feasible capacity of offshore wind to achieve reliability, ratepayer, employment, and decarbonization benefits and to establish offshore wind planning goals for 2030 and 2045, as specified.

The bill would require the Energy Commission, in coordination with specified agencies, to develop a strategic plan to achieve a goal of at least 10,000 megawatts of for offshore wind energy developments installed off the California coast by 2040, with an interim target of 3,000 megawatts installed by 2030, in federal waters, as specified. The bill would require the Energy Commission to submit the strategic plan to the Natural Resources Agency and the Legislature on or before June 1, December 31, 2022. The bill would impose various requirements on the Energy Commission in relation to the strategic plan and would require the strategic plan to include specified information relating to identification of sea space, economic and workforce development, transmission planning, and permitting.

The bill would require the Energy Commission, in consultation coordination with specified agencies, to work with stakeholders, state, local, and federal agencies, and the offshore wind energy industry to identify suitable sea space for wind energy areas in federal waters sufficient to accommodate the offshore wind planning goals for 2030 and 2045. The bill would require the Energy Commission, in coordination with relevant state and local agencies, to assess and develop a plan to improve existing waterfront facilities that could support a range of floating offshore wind energy development activities, and would require the PUC, in consultation with the Energy Commission, to include offshore wind energy as a resource for full consideration in the PUC's integrated resource planning process. activities. The bill would require the Energy Commission, in consultation with the PUC and Independent System Operator, to assess the transmission investments and upgrades necessary to support at least 10,000 megawatts of offshore wind energy developments by 2040, and would require that assessment to include the consideration of eligible renewable energy resource technologies, including, but not limited to, offshore wind energy, as a resource for achieving the above-described policy established in the 100 Percent Clean Energy Act of 2018. the offshore wind planning goals for 2030 and 2045. The bill would require the Energy Commission to convene a working group that includes all relevant state local, state, and federal agencies and interested California

Native American tribes to facilitate, as specified, the develop and produce guidelines, timeframes, and milestones for a permitting process for offshore wind energy facilities and associated electricity and transmission infrastructure off the coast of California. The bill would require the information described in this paragraph to be included in the strategic plan, as specified.

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

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

Page 2 1 SECTION 1. The Legislature finds and declares all of the
2 following:
3 (a) If developed and deployed at scale, the development of
4 offshore wind energy can provide economic and environmental
5 benefits to the state and the nation.
6 (b) Offshore wind energy can advance California's progress
7 toward its statutory renewable energy and climate mandates.

Page 3 1 (c) ~~The joint agency report 2021 SB 100 Joint Agency Report~~
2 issued pursuant to Section 454.53 of the Public Utilities Code
+ ~~demonstrated both of the following:~~
3 ~~(1) That California will need conducted portfolio modeling that~~
4 ~~selected at least 10 gigawatts of offshore wind energy~~
5 ~~developments to achieve its the state's climate goals at least cost.~~
+ ~~goals, finding a total reduction in total resource costs by an~~
+ ~~estimated one billion dollars (\$1,000,000,000).~~
6 ~~(2) That~~
+ ~~(d) California will may need to build at least 34 48 gigawatts~~
7 ~~of new renewable energy and energy storage developments by~~
8 ~~2030 and at least 140 145 gigawatts of new renewable energy and~~
9 ~~energy storage developments by 2045 to achieve the goals~~
10 ~~established in SB 100-(2017-18) (Chapter 312 of the Statutes of~~
+ ~~2018).~~
+ ~~(e) Diversity in energy resources and technologies lowers~~
+ ~~overall costs. Offshore wind can add resource and technology~~
+ ~~diversity to the state's energy portfolio.~~
11 ~~(d)~~
+ ~~(f) Offshore wind energy development presents an opportunity~~
12 ~~to attract investment capital and to realize community economic~~
13 ~~development and workforce development benefits in California,~~

Amendment 5
Amendment 6

Amendments 7 & 8

Amendments 9, 10 & 11

Amendment 12

Amendment 13
Amendment 14

Amendment 15

Page 3 14 including the development and preservation of a skilled and trained
15 construction workforce to carry out projects, long-term job creation,
16 and development of an offshore wind energy supply chain.
17 (e)
+ (g) Offshore wind energy can contribute to a diverse, secure,
18 reliable, and affordable renewable energy resource portfolio to
19 serve the electricity needs of California ratepayers and improve
20 air quality, particularly in disadvantaged communities.
21 (f)
+ (h) Subsea electricity transmission could reduce transmission
22 congestion and provide transmission capacity for diverse clean
23 energy development. *congestion.*
24 (g)
+ (i) With existing technology, each 1,000 megawatts of offshore
25 wind energy will require between 100 and 120 square miles of sea
26 space for development.
27 (h)
+ (j) The Ocean Protection Council's strategic plan for 2020 to
28 2025, inclusive, sets an objective for development of a commercial
29 scale offshore wind energy project in California that minimizes
30 impacts on marine biodiversity and habitat, currents and upwelling,
31 fishing, cultural resources, navigation, aesthetics and visual appeal,
32 and military operations by 2026.
+ (k) *In 2016, California initiated a collaborative process with*
+ *the federal government through the formation of the Bureau of*
+ *Ocean Energy Management California Intergovernmental*
+ *Renewable Energy Task Force, which includes a broad public*
+ *outreach process to examine potential wind leasing areas in federal*
+ *waters. The federal Bureau of Ocean Energy Management*
+ *identified areas in Humboldt, Morro Bay, and Diablo Canyon as*
+ *the first three potential offshore wind "call areas" and issued a*
+ *call for nominations of interest in 2018.*
+ (l) *The Bureau of Ocean Energy Management California*
+ *Intergovernmental Renewable Energy Task Force has developed*
+ *and collected important data and information relevant to the*
+ *assessment of potential offshore wind energy resources, including*
+ *the creation of the California Offshore Wind Energy Gateway,*
+ *which assembles geospatial information on ocean wind resources,*
+ *ecological and natural resources, commercial and recreational*

Amendment 16

Amendment 17

Amendment 18

Amendment 19

Amendment 20

Amendment 21

+ ocean uses, and community values and makes this information
+ publicly available.
+ (m) Offshore wind should be developed in a manner that protects
+ coastal and marine ecosystems. The State of California should use
+ its authority under state programs and policies to ensure (1)
+ avoidance, minimization, and mitigation of significant adverse
+ impacts, and (2) monitoring and adaptive management for offshore
+ wind projects and their associated infrastructure.
+ (n) The President of the United States and federal Departments
+ of Interior, Energy, and Commerce have announced a shared goal
+ to deploy 30,000 megawatts of offshore wind energy by 2030,
+ employing tens of thousands of workers, protecting biodiversity,
+ and promoting ocean co-use.

Page 3 33 SEC. 2. Chapter 14 (commencing with Section 25991) is added
34 to Division 15 of the Public Resources Code, to read:

35
36 CHAPTER 14. OFFSHORE WIND GENERATION

+
38 25991. (a) (1) The commission, in coordination with the
39 California Coastal Commission, the Ocean Protection Council,
40 the State Lands Commission, the Office of Planning and Research,
Page 4 1 the Governor's Office of Business and Economic Development,
2 the Independent System Operator, and the Public Utilities
3 Commission, and other relevant federal, state, and local agencies
4 as needed, shall develop a strategic plan to achieve a goal of at
5 least 10,000 megawatts of for offshore wind energy developments
6 installed off the California coast by 2040, with an interim target
+ of 3,000 megawatts installed by 2030. in federal waters.

+ (2) Development of the strategic plan shall incorporate, but not
+ delay, progress to advance responsible development of offshore
+ wind in other relevant policy venues.

7 (b) (1) The commission shall submit the strategic plan to the
8 Natural Resources Agency and the Legislature on or before June
9 1, December 31, 2022.

10 (2) The plan submitted to the Legislature pursuant to paragraph
11 (1) shall be submitted in compliance with Section 9795 of the
12 Government Code.

13 (c) The strategic plan shall include, at a minimum, the following
14 four chapters:

Amendment 22

Amendment 23

Amendment 24

Amendment 25

Amendment 26

PROPOSED AMENDMENTS

AB 525

— 6 —

Page 4 15 (1) Identification of sea space, including the findings *and*
16 *recommendations* resulting from activities undertaken pursuant to
+ Section ~~25991.1~~. 25991.2.
17 (2) Economic and workforce ~~development~~, *development and*
+ *identification of port space and infrastructure*, including the
18 ~~findings resulting from activities undertaken~~ *plan developed*
19 pursuant to Section ~~25991.2~~. 25991.3.
20 (3) Transmission planning, including the findings resulting from
21 activities undertaken pursuant to Section ~~25991.3~~. 25991.4.
22 (4) Permitting, including the findings resulting from activities
23 undertaken pursuant to Section ~~25991.4~~. 25991.5.
24 (d) (1) The strategic plan shall emphasize and prioritize
25 near-term actions, particularly related to port retrofits and
26 investments and the workforce, to accommodate the probable
27 immediate need for jobs and economic development.
28 (2) In considering port retrofits, the strategic plan shall strive
29 for compatibility with other harbor tenants and ocean users to
30 ensure that the local benefits related to offshore wind energy
31 construction complement other local industries.
32 (3) The strategic plan shall emphasize and prioritize actions that
33 will improve port infrastructure to support land-based work for
34 the local workforce.
35 (e) The development of the strategic plan regarding workforce
36 development shall include consultation with representatives of key
37 labor organizations and apprenticeship programs that would be
38 involved in dispatching and training the construction workforce.
+ 25991.1. (a) *On or before March 1, 2022, the commission*
+ *shall evaluate and quantify the maximum feasible capacity of*
+ *offshore wind to achieve reliability, ratepayer, employment, and*
+ *decarbonization benefits and shall establish megawatt offshore*
+ *wind planning goals for 2030 and 2045.*
+ (b) *In establishing the goals pursuant to subdivision (a), the*
+ *commission shall consider all of the following:*
+ (1) *The findings of the 2021 joint report issued pursuant to*
+ *Section 454.53 of the Public Utilities Code.*
+ (2) *The need to develop a skilled and trained offshore wind*
+ *workforce.*
+ (3) *The potential to attract supply-chain manufacturing for*
+ *offshore wind components throughout the Pacific region.*

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SUBSTANTIVE

Amendment 27
Amendment 28

Amendment 29

Amendment 30
Amendment 31

Amendment 32

Amendment 33

Amendment 34

- + (4) *The need for reliable renewable energy that accommodates California's shifting peak load.*
- + (5) *The generation profile of offshore wind off the coast of California.*
- + (6) *The need for economies of scale to reduce the costs of floating offshore wind.*
- + (7) *The need to initiate long-term transmission and infrastructure planning to facilitate delivery of offshore wind energy to Californians.*
- + (8) *The availability of federal tax incentives for offshore wind investments.*
- + (9) *The National Renewable Energy Laboratory report finding that California has 200 gigawatts of offshore wind technical power potential.*
- + (10) *The opportunity for California to participate in the federal government's intention to deploy 30,000 megawatts of offshore wind by 2030 and to create a pathway to unlocking 110,000 megawatts by 2050.*
- + (11) *Any executive action from the Governor regarding offshore wind.*

Page 4 39 25991.1.

- + 25991.2. (a) ~~The commission~~ *commission, in coordination with the California Coastal Commission, Department of Fish and Wildlife, Ocean Protection Council, and State Lands Commission,*
- + shall work with ~~key stakeholders, state other state, local, and~~ *key stakeholders, state other state, local, and*
- + federal agencies, and the offshore wind energy industry to identify
- + suitable sea space for wind energy areas in federal waters sufficient
- + to accommodate ~~at least 10,000 megawatts of offshore wind~~ *at least 10,000 megawatts of offshore wind*
- + ~~generation off California's coast, with a plan to assess and address~~ *generation off California's coast, with a plan to assess and address*
- + ~~environmental impacts and land use conflicts in accordance with~~ *environmental impacts and land use conflicts in accordance with*
- + ~~California's long-term renewable energy and greenhouse gas~~ *California's long-term renewable energy and greenhouse gas*
- + ~~emission reduction goals. the offshore wind planning goals~~ *emission reduction goals. the offshore wind planning goals*
- + *established pursuant to Section 25991.1, as follows:*

- + (1) *The commission shall first identify the sea space identified by the federal Bureau of Ocean Energy Management in its 2018 call for nominations, as published in the Federal Register, Volume 83, Number 203, on October 19, 2018, and any other relevant information necessary to achieve the 2030 offshore wind planning goal established pursuant to Section 25991.1.*

Amendments 35, 36 & 37

Amendment 38

Amendment 39

+ (2) *The commission, in coordination with the California Coastal*
+ *Commission, Department of Fish and Wildlife, Ocean Protection*
+ *Council, and State Lands Commission, shall next identify suitable*
+ *sea space for a future phase of offshore wind leasing to*
+ *accommodate the 2045 offshore wind planning goal established*
+ *pursuant to Section 25991.1.*
+ (b) *In identifying suitable sea space, the commission shall*
+ *consider all of the following:*
+ (1) *Existing data and information on offshore wind resource*
+ *potential and commercial viability.*
+ (2) *Existing and necessary transmission and port infrastructure.*
+ (3) *Protection of cultural and biological resources with the goal*
+ *of prioritizing least-conflict ocean areas.*
+ (c) *In fulfilling the requirements of this section, the commission*
+ *shall incorporate the information developed by the Bureau of*
+ *Ocean Energy Management California Intergovernmental*
+ *Renewable Energy Task Force.*
+ (d) *The commission shall use the California Offshore Wind*
+ *Energy Gateway to provide relevant information developed*
+ *pursuant to this section to the public.*
+ (e) *The commission, in coordination with the California Coastal*
+ *Commission, the Department of Fish and Wildlife, the Ocean*
+ *Protection Council, the State Lands Commission, stakeholders,*
+ *other state, local, and federal agencies, and the offshore wind*
+ *energy industry, shall make recommendations to address potential*
+ *environmental impacts and use conflicts, such as monitoring,*
+ *mitigation, and adaptive management, consistent with California's*
+ *long-term renewable energy and greenhouse gas emission*
+ *reduction goals.*
+ (f) *Nothing in this section is intended to modify the authority of*
+ *state agencies over project-specific siting and permitting.*
+ (g) *The findings and recommendations resulting from activities*
+ *undertaken pursuant to this section shall be included in the chapter*
+ *of the strategic plan relating to the identification of sea space as*
+ *specified in paragraph (1) of subdivision (c) of Section 25991.*
7 ~~25991.2.~~
+ 25991.3. (a) ~~The~~ *Based on the sea spaces identified pursuant*
+ *to Section 25991.2, the commission, in consultation* ~~in coordination~~
8 *with relevant state and local agencies, shall assess and develop a*
9 *plan to improve existing waterfront facilities that could support a*

Amendments 40, 41 & 42

Amendment 43
Amendment 44

Page 5 10 range of floating offshore wind energy development activities,
11 including construction and staging of foundations, manufacturing
12 of components, final assembly, and long-term operations and
13 maintenance facilities.
+ (b) *The plan developed pursuant to subdivision (a) shall include*
+ *all of the following:*
14 ~~(b) The assessment undertaken pursuant to subdivision (a) shall~~
15 ~~include a~~
+ (1) A detailed assessment of the necessary investments in
16 California seaports to support offshore wind energy activities,
17 including construction, assembly, and operations and maintenance.
18 The assessment shall ~~detail~~ *consider* the potential availability of
19 land and water acreage at each seaport, including competing and
20 ~~existing current~~ *uses*, infrastructure feasibility, access to deep
21 water, ~~and bridge height restrictions.~~ *restrictions, and potentially*
+ *impacted natural and cultural resources.*
22 ~~(e) The assessment undertaken pursuant to subdivision (a) shall~~
23 ~~analyze~~
+ (2) *An analysis of the workforce development needs for* of the
24 California offshore wind energy industry, including occupational
25 safety requirements, ~~and the need to require the use of a skilled~~
26 ~~and trained workforce to perform all work. The assessment shall~~
27 ~~also analyze work, and the need for the Division of Apprenticeship~~
28 ~~Standards to develop curriculum for in-person classroom and~~
29 ~~laboratory advanced safety training for workers.~~
30 ~~(d) The assessment undertaken pursuant to subdivision (a) shall~~
31 ~~consider and make recommendations~~
32 (3) *Recommendations* for workforce standards for offshore wind
33 energy facilities and associated infrastructure, including, but not
34 limited to, prevailing wage, skilled and trained workforce,
+ apprenticeship, local hiring, and targeted hiring, *hiring standards,*
35 that ensure sustained and equitable economic development benefits.
36 ~~(e) The assessment undertaken pursuant to subdivision (a) shall~~
37 ~~include consultation~~
+ (c) *In developing the plan pursuant to subdivision (a), the*
+ *commission shall consult* with representatives of key labor
38 organizations and apprenticeship programs that would be involved
39 in dispatching and training the construction workforce.
+ (d) *The plan developed pursuant to this section shall be included*
+ *in the chapter of the strategic plan relating to economic and*

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+ workforce development and identification of port space and
+ infrastructure as specified in paragraph (2) of subdivision (c) of
+ Section 25991.

1 ~~25991.3.~~

+ 25991.4. (a) The commission, in consultation with the Public
2 Utilities Commission and the Independent System Operator, shall
3 assess the transmission investments and upgrades necessary to
4 support ~~at least 10,000 megawatts of the 2030 and 2045 offshore~~
5 ~~wind energy developments by 2040.~~ *planning goals established*
+ pursuant to Section 25991.1.

+ (b) *The findings resulting from activities undertaken pursuant*
+ *to this section shall be included in the chapter of the strategic plan*
+ *relating to transmission planning as specified in paragraph (3) of*
+ *subdivision (c) of Section 25991.*

6 ~~(b) The assessment undertaken pursuant to subdivision (a) shall~~
7 ~~include consideration of eligible renewable energy resource~~
8 ~~technologies, including, but not limited to, offshore wind energy,~~
9 ~~as a resource for achieving the policy described in subdivision (a)~~
10 ~~of Section 454.53 of the Public Utilities Code.~~

11 ~~(c) The Public Utilities Commission, in consultation with the~~
12 ~~commission, shall include offshore wind energy as a resource for~~
13 ~~full consideration in the Public Utilities Commission's integrated~~
14 ~~resource planning process.~~

15 ~~25991.4.~~

+ 25991.5. (a) ~~(1)~~ The commission shall convene a working
16 group that includes all relevant ~~state local, state, and federal~~
+ *agencies and interested California Native American tribes* to
17 collectively develop and produce guidelines, timeframes, and
18 milestones for a coordinated, comprehensive, and efficient
19 permitting process for offshore wind energy facilities and
20 associated electricity and transmission infrastructure off the coast
+ of California.

21 ~~(2)~~

+ (b) The working group shall meet no less than once per month
22 to develop a comprehensive and efficient ~~state local, state, and~~
23 ~~federal~~ permitting program for floating offshore wind energy
24 developments in federal waters, to be incorporated into the strategic
25 plan. The program shall include a goal for the permitting
26 timeframe, clearly define ~~state local, state, and federal~~ agency
27 roles, responsibilities, and decisionmaking authority, and include

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Page 6 28 interfaces with federal agencies, including timing, sequence, and
29 coordination with federal permitting agencies, and coordination
30 between reviews under the California Environmental Quality Act
31 (Division 13 (commencing with Section 21000)) and the federal
32 National Environmental Policy Act of 1969 (42 U.S.C. Sec. 4321
+ et seq.).
33 ~~(b) The commission, in coordination with the State Air~~
34 ~~Resources Board, shall explore and identify how offshore wind~~
35 ~~energy development, to the scale identified in the strategic plan,~~
36 ~~could provide environmental and air quality benefits to the state~~
37 ~~and to disadvantaged communities.~~
+ (c) *The working group shall provide an opportunity for*
+ *stakeholder input in the development and communication of the*
+ *permitting program.*
+ (d) *The findings resulting from activities undertaken pursuant*
+ *to this section shall be included in the chapter of the strategic plan*
+ *relating to permitting as specified in paragraph (4) of subdivision*
+ *(c) of Section 25991.*

Amendment 69

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