

# STATE OF NEW YORK

S. 2992--A

A. 3876--A

2019-2020 Regular Sessions

## SENATE - ASSEMBLY

January 31, 2019

IN SENATE -- Introduced by Sens. KAMINSKY, HOYLMAN, ADDABBO, BAILEY, BENJAMIN, BIAGGI, BRESLIN, BROOKS, CARLUCCI, COMRIE, GAUGHRAN, GIANARIS, GOUNARDES, HARCKHAM, JACKSON, KAPLAN, KAVANAGH, KENNEDY, KRUEGER, LIU, MARTINEZ, MAY, MAYER, METZGER, MONTGOMERY, MYRIE, PARKER, PERSAUD, RAMOS, RIVERA, SALAZAR, SANDERS, SEPULVEDA, SERRANO, SKOUFIS, STAVISKY, THOMAS -- read twice and ordered printed, and when printed to be committed to the Committee on Environmental Conservation -- committee discharged, bill amended, ordered reprinted as amended and recommitted to said committee

IN ASSEMBLY -- Introduced by M. of A. ENGLEBRIGHT, LIFTON, FAHY, ORTIZ, CAHILL, WALKER, CARROLL, L. ROSENTHAL, THIELE, JAFFEE, SIMON, OTIS, DINOWITZ, WILLIAMS, ROZIC, ABINANTI, MOSLEY, BARRETT, STECK, GALEF, GOTTFRIED, LUPARDO, PHEFFER AMATO, DE LA ROSA, JEAN-PIERRE, COLTON, CUSICK, PEOPLES-STOKES, SEAWRIGHT, PICHARDO, WEPRIN, SIMOTAS, GLICK, FERNANDEZ, D'URSO, O'DONNELL, GRIFFIN, REYES, BURKE, SOLAGES, ROMEO, STIRPE, MAGNARELLI, EPSTEIN, TAYLOR, FALL, CRUZ, STERN, SANTABARBARA, BRONSON, BARNWELL, DAVILA, HEVESI, NIOU, HUNTER, M. G. MILLER, BENEDETTO, RODRIGUEZ, QUART, WRIGHT, HYNDMAN, CRESPO, FRONTUS, RYAN, SAYEGH, BARRON, PRETLOW, GUNTHER, RICHARDSON, RAYNOR, KIM, McMAHON, DICKENS, JACOBSON -- Multi-Sponsored by -- M. of A. DenDEKKER, LENTOL, NOLAN, PAULIN, RAMOS -- read once and referred to the Committee on Environmental Conservation -- reported and referred to the Committee on Ways and Means -- reported and referred to the Committee on Rules -- Rules Committee discharged, bill amended, ordered reprinted as amended and recommitted to the Committee on Rules

AN ACT to amend the environmental conservation law, the public service law, the public authorities law, the labor law and the community risk and resiliency act, in relation to establishing the New York state climate and community protection act

The People of the State of New York, represented in Senate and Assembly, do enact as follows:

EXPLANATION--Matter in *italics* (underscored) is new; matter in brackets [-] is old law to be omitted.

LBD05372-07-9

1 Section 1. Legislative findings and declaration. The legislature here-  
2 by enacts the "New York state climate and community protection act" and  
3 finds and declares that:

4 1. Climate change is adversely affecting economic well-being, public  
5 health, natural resources, and the environment of New York. The adverse  
6 impacts of climate change include:

7 a. an increase in the severity and frequency of extreme weather  
8 events, such as storms, flooding, and heat waves, which can cause direct  
9 injury or death, property damage, and ecological damage (e.g., through  
10 the release of hazardous substances into the environment);

11 b. rising sea levels, which exacerbate damage from storm surges and  
12 flooding, contribute to coastal erosion and saltwater intrusion, and  
13 inundate low-lying areas, leading to the displacement of or damage to  
14 coastal habitat, property, and infrastructure;

15 c. a decline in freshwater and saltwater fish populations;

16 d. increased average temperatures, which increase the demand for air  
17 conditioning and refrigeration among residents and businesses;

18 e. exacerbation of air pollution; and

19 f. an increase in the incidences of infectious diseases, asthma  
20 attacks, heart attacks, and other negative health outcomes. These  
21 impacts are having a detrimental effect on some of New York's largest  
22 industries, including agriculture, commercial shipping, forestry, tour-  
23 ism, and recreational and commercial fishing. These impacts also place  
24 additional strain on the physical infrastructure that delivers critical  
25 services to the citizens of New York, including the state's energy,  
26 transportation, stormwater, and wastewater infrastructure.

27 2. a. The severity of current climate change and the threat of addi-  
28 tional and more severe change will be affected by the actions undertaken  
29 by New York and other jurisdictions to reduce greenhouse gas emissions.  
30 According to the U.S. Global Change Research Program (USGCRP) and the  
31 Intergovernmental Panel on Climate Change (IPCC), substantial reductions  
32 in greenhouse gas emissions will be required by mid-century in order to  
33 limit global warming to no more than 2°C and ideally 1.5°C, and thus  
34 minimize the risk of severe impacts from climate change. Specifically,  
35 industrialized countries must reduce their greenhouse gas emissions by  
36 at least 80% below 1990 levels by 2050 in order to stabilize carbon  
37 dioxide equivalent concentrations at 450 parts per million--the level  
38 required to stay within the 2°C target.

39 b. On December 12, 2015, one hundred ninety-five countries at the 21st  
40 Conference of the parties of the United Nations Framework Convention on  
41 Climate Change adopted an agreement addressing greenhouse gas emissions  
42 mitigation, adaptation, and finance starting in the year 2020, known as  
43 the Paris Agreement. The Paris Agreement was adopted on November 4,  
44 2016, and is the largest concerted global effort to combat climate  
45 change to date.

46 3. Action undertaken by New York to reduce greenhouse emissions will  
47 have an impact on global greenhouse gas emissions and the rate of  
48 climate change. In addition, such action will encourage other jurisdic-  
49 tions to implement complementary greenhouse gas reduction strategies and  
50 provide an example of how such strategies can be implemented. It will  
51 also advance the development of green technologies and sustainable prac-  
52 tices within the private sector, which can have far-reaching impacts  
53 such as a reduction in the cost of renewable energy components, and the  
54 creation of jobs and tax revenues in New York.

55 4. It shall therefore be a goal of the state of New York to reduce  
56 greenhouse gas emissions from all anthropogenic sources 100% over 1990

1 levels by the year 2050, with an incremental target of at least a 40  
2 percent reduction in climate pollution by the year 2030, in line with  
3 USGCRP and IPCC projections of what is necessary to avoid the most  
4 severe impacts of climate change.

5 5. Although substantial emissions reductions are necessary to avoid  
6 the most severe impacts of climate change, complementary adaptation  
7 measures will also be needed to address those risks that cannot be  
8 avoided. Some of the impacts of climate change are already observable in  
9 New York state and the northeastern United States. Annual average  
10 temperatures are on the rise, winter snow cover is decreasing, heat  
11 waves and precipitation are intensifying, and sea levels along New  
12 York's coastline are approximately one foot higher than they were in  
13 1900. New York has also experienced an increasing number of extreme and  
14 unusual weather events, like Hurricanes Irene and Lee and the  
15 unprecedented Superstorm Sandy in 2012, which caused at least 53 deaths  
16 and \$32 billion in damage in New York state.

17 6. New York should therefore minimize the risks associated with  
18 climate change through a combination of measures to reduce statewide  
19 greenhouse gas emissions and improve the resiliency of the state with  
20 respect to the impacts and risks of climate change that cannot be  
21 avoided.

22 7. Climate change especially heightens the vulnerability of disadvan-  
23 tagged communities, which bear environmental and socioeconomic burdens as  
24 well as legacies of racial and ethnic discrimination. Actions undertaken  
25 by New York state to mitigate greenhouse gas emissions should prioritize  
26 the safety and health of disadvantaged communities, control potential  
27 regressive impacts of future climate change mitigation and adaptation  
28 policies on these communities, and prioritize the allocation of public  
29 investments in these areas.

30 8. Creating good jobs and a thriving economy is a core concern of New  
31 York state. Shaping the ongoing transition in our energy sector to  
32 ensure that it creates good jobs and protects workers and communities  
33 that may lose employment in the current transition must be key concerns  
34 of our climate policy. Setting clear standards for job quality and  
35 training standards encourages not only high-quality work but positive  
36 economic impacts.

37 9. Workers are at the front lines of climate change. Construction  
38 workers and building service workers were some of the first workers  
39 dedicated to cleaning up damage inflicted by recent storms. These work-  
40 ers were often operating in unsafe and toxic environments, cleaning up  
41 mold, and working in unstable buildings. In order to protect the health  
42 and welfare of these workers, it is in the interest of the state of New  
43 York to establish safe and healthy working conditions and proper train-  
44 ing for workers involved in climate change related activities. In addi-  
45 tion, much of the infrastructure work preparing our state for additional  
46 climate change events must happen quickly and efficiently. It is in the  
47 interest of the state to ensure labor harmony and promote efficient  
48 performance of work on climate change related work sites by requiring  
49 workers to be well-trained and adequately compensated.

50 10. Ensuring career opportunities are created and shared geograph-  
51 ically and demographically is necessary to ensure increased access to  
52 good jobs for marginalized communities while making the same neighbor-  
53 hoods more resilient. Climate change has a disproportionate impact on  
54 low-income people, women, and workers. It is in the interest of the  
55 state of New York to protect and promote the interests of these groups  
56 against the impacts of climate change and severe weather events and to

1 advance our equity goals by ensuring quality employment opportunities in  
2 safe working environments.

3 11. The complexity of the ongoing energy transition, the uneven  
4 distribution of economic opportunity, and the disproportionate cumula-  
5 tive economic and environmental burdens on communities mean that there  
6 is a strong state interest in setting a floor statewide for labor stand-  
7 ards, but allowing and encouraging individual agencies and local govern-  
8 ments to raise standards.

9 12. By exercising a global leadership role on greenhouse gas miti-  
10 gation and climate change adaptation, New York will position its econo-  
11 my, technology centers, financial institutions, and businesses to bene-  
12 fit from national and international efforts to address climate change.  
13 New York state has already demonstrated leadership in this area by  
14 undertaking efforts such as:

15 a. executive order no. 24 (2009), establishing a goal to reduce green-  
16 house gas emissions 80% by the year 2050, creating a climate action  
17 council, and calling for preparation of a climate action plan;

18 b. chapter 433 of the laws of 2009, establishing a state energy plan-  
19 ning board and requiring the board to adopt a state energy plan;

20 c. chapter 388 of the laws of 2011, directing the department of envi-  
21 ronmental conservation to promulgate rules and regulations limiting  
22 emissions of carbon dioxide by newly constructed major generating facil-  
23 ities;

24 d. the adoption of a state energy plan establishing clean energy goals  
25 for the year 2030 aimed at reducing greenhouse gas emission levels by  
26 40% from 1990 levels, producing 70% of electricity from renewable sourc-  
27 es, increasing energy efficiency from 2012 levels by 23% and the addi-  
28 tional expressed goal of reducing 100% of the electricity sector's  
29 greenhouse gas emissions by 2040;

30 e. collaboration with other states on the Regional Greenhouse Gas  
31 Initiative, and the development of a regional low carbon fuel standard;

32 f. creation of new offices and task forces to address climate change,  
33 including the New York state office of climate change, the renewable  
34 energy task force, and the sea level rise task force; and

35 g. the enactment of the Community Risk and Resiliency Act (CRRA),  
36 which requires agencies to consider sea level rise and other climate-re-  
37 lated events when implementing certain state programs.

38 This legislation will build upon these past developments by creating a  
39 comprehensive regulatory program to reduce greenhouse gas emissions that  
40 corresponds with the targets established in executive order no. 24, the  
41 state energy plan, and USGCRP and IPCC projections.

42 § 2. The environmental conservation law is amended by adding a new  
43 article 75 to read as follows:

44 ARTICLE 75

45 CLIMATE CHANGE

46 Section 75-0101. Definitions.

47 75-0103. New York state climate action council.

48 75-0105. Statewide greenhouse gas emissions report.

49 75-0107. Statewide greenhouse gas emissions limits.

50 75-0109. Promulgation of regulations to achieve statewide green-  
51 house gas emissions reductions.

52 75-0111. Climate justice working group.

53 75-0113. Value of carbon.

54 75-0115. Community air monitoring program.

55 75-0117. Investment of funds.

56 75-0119. Implementation reporting.

1 § 75-0101. Definitions.

2 For the purposes of this article the following terms shall have the  
3 following meanings:

4 1. "Allowance" means an authorization to emit, during a specified  
5 year, up to one ton of carbon dioxide equivalent.

6 2. "Carbon dioxide equivalent" means the amount of carbon dioxide by  
7 mass that would produce the same global warming impact as a given mass  
8 of another greenhouse gas over an integrated twenty-year time frame  
9 after emission.

10 3. "Co-pollutants" means hazardous air pollutants produced by green-  
11 house gas emissions sources.

12 4. "Council" means the New York state climate action council estab-  
13 lished pursuant to section 75-0103 of this article.

14 5. "Disadvantaged communities" means communities that bear burdens of  
15 negative public health effects, environmental pollution, impacts of  
16 climate change, and possess certain socioeconomic criteria, or comprise  
17 high-concentrations of low- and moderate- income households, as identi-  
18 fied pursuant to section 75-0111 of this article.

19 6. "Emissions reduction measures" means programs, measures and stand-  
20 ards, authorized pursuant to this chapter, applicable to sources or  
21 categories of sources, that are designed to reduce emissions of green-  
22 house gases.

23 7. "Greenhouse gas" means carbon dioxide, methane, nitrous oxide,  
24 hydrofluorocarbons, perfluorocarbons, sulfur hexafluoride, and any other  
25 substance emitted into the air that may be reasonably anticipated to  
26 cause or contribute to anthropogenic climate change.

27 8. "Greenhouse gas emission limit" means the maximum allowable level  
28 of statewide greenhouse gas emissions, in a specified year, expressed in  
29 tons of carbon dioxide equivalent, as determined by the department  
30 pursuant to this article.

31 9. "Greenhouse gas emission offset" means a deduction representing one  
32 metric ton of carbon dioxide equivalent emissions, reduced, avoided, or  
33 sequestered by a greenhouse gas emission offset project from a measured  
34 baseline of emissions pursuant to the statewide greenhouse gas emissions  
35 report.

36 10. "Greenhouse gas emission offset projects" means one or more  
37 projects, including:

38 a. Natural carbon sinks including but not limited to afforestation,  
39 reforestation, or wetlands restoration;

40 b. Greening infrastructure;

41 c. Restoration and sustainable management of natural and urban forests  
42 or working lands, grasslands, coastal wetlands and sub-tidal habitats;

43 d. Efforts to reduce hydrofluorocarbon refrigerant, sulfur hexafluor-  
44 ide, and other ozone depleting substance releases;

45 e. Anaerobic digesters, where energy produced is directed toward  
46 localized use;

47 f. Carbon capture and sequestration;

48 g. Ecosystem restoration; and

49 h. Other types of projects recommended by the council in consultation  
50 with the climate justice working group that provide public health and  
51 environmental benefits, and do not create burdens in disadvantaged  
52 communities.

53 11. "Greenhouse gas emission source" or "source" means any anthropo-  
54 genic source or category of anthropogenic sources of greenhouse gas  
55 emissions, determined by the department:

1 a. whose participation in the program will enable the department to  
2 effectively reduce greenhouse gas emissions; and,  
3 b. that are capable of being monitored for compliance.

4 12. "Leakage" means a reduction in emissions of greenhouse gases with-  
5 in the state that is offset by an increase in emissions of greenhouse  
6 gases outside of the state.

7 13. "Statewide greenhouse gas emissions" means the total annual emis-  
8 sions of greenhouse gases produced within the state from anthropogenic  
9 sources and greenhouse gases produced outside of the state that are  
10 associated with the generation of electricity imported into the state  
11 and the extraction and transmission of fossil fuels imported into the  
12 state. Statewide emissions shall be expressed in tons of carbon dioxide  
13 equivalents.

14 14. "Statewide greenhouse gas emissions limit" or "statewide emissions  
15 limit" means the maximum allowable level of statewide greenhouse gas  
16 emissions in a specified year, as determined by the department pursuant  
17 to this article.

18 15. "Environmental justice advisory group" shall mean the permanent  
19 environmental justice advisory group established by a chapter of the  
20 laws of two thousand nineteen amending the environmental conservation  
21 law relating to establishing a permanent environmental justice advisory  
22 group and an environmental justice interagency coordinating council, as  
23 proposed in legislative bills numbers S. 2385 and A. 1564.  
24 § 75-0103. New York state climate action council.

25 1. There is hereby established the New York state climate action coun-  
26 cil ("council") which shall consist of the following twenty-two members:

27 a. the commissioners of transportation, health, economic development,  
28 agriculture and markets, housing and community renewal, environmental  
29 conservation, labor, the chairperson of the public service commission,  
30 the presidents of the New York state energy research and development  
31 authority; New York power authority; Long Island power authority; the  
32 secretary of state, or their designees.

33 b. two non-agency expert members appointed by the governor;

34 c. three members to be appointed by the temporary president of the  
35 senate;

36 d. three members to be appointed by the speaker of the assembly;

37 e. one member to be appointed by the minority leader of the senate;

38 and

39 f. one member to be appointed by the minority leader of the assembly.

40 2. The at large members shall include at all times individuals with  
41 expertise in issues relating to climate change mitigation and/or adapta-  
42 tion, such as environmental justice, labor, public health and regulated  
43 industries.

44 3. Council members shall receive no compensation for their services  
45 but shall be reimbursed for actual and necessary expenses incurred in  
46 the performance of their duties.

47 4. The co-chairpersons of the council shall be the commissioner of  
48 environmental conservation and the president of the New York state ener-  
49 gy research and development authority or their designee.

50 5. Each member of the council shall be entitled to one vote. The coun-  
51 cil's approval and adoption of the final scoping plan pursuant to this  
52 section, and any subsequent interim updates thereto, shall require a  
53 supermajority of the council. No action may be taken by the council  
54 unless there is a quorum, which shall at all times be a majority of the  
55 members of the council.

1 6. Any vacancies on the council shall be filled in the manner provided  
2 for the initial appointment.

3 7. The council shall convene advisory panels requiring special exper-  
4 tise and, at a minimum, shall establish advisory panels on transporta-  
5 tion, energy intensive and trade-exposed industries, land-use and local  
6 government, energy efficiency and housing, power generation, and agri-  
7 culture and forestry. The purpose of the advisory panels shall be to  
8 provide recommendations to the council on specific topics, in its prepa-  
9 ration of the scoping plan, and interim updates to the scoping plan, and  
10 in fulfilling the council's ongoing duties.

11 a. Each advisory panel shall be chaired by the relevant agency head or  
12 his or her designee. The council may convene and dissolve additional  
13 advisory panels, in its sole discretion, and pursuant to the require-  
14 ments herein.

15 b. Advisory panels shall be comprised of no fewer than five voting  
16 members. The council shall elect advisory panel members, and such  
17 membership shall at all times represent individuals with direct involve-  
18 ment or expertise in matters to be addressed by the advisory panels  
19 pursuant to this section.

20 c. Advisory panels shall work directly with the council on the prepa-  
21 ration of the scoping plan pursuant to this section. Each advisory panel  
22 shall coordinate with the environmental justice advisory group and  
23 climate justice working group.

24 d. All agencies of the state or subdivisions thereof may, at the  
25 request of any such advisory panel or the council, provide the advisory  
26 panel with such facilities, assistance, and data as will enable advisory  
27 panels to carry out their powers and duties.

28 8. The council shall convene a just transition working group. The  
29 working group shall be chaired by the commissioner of labor and the  
30 president of the New York state energy research and development authori-  
31 ty and shall consist of no less than thirteen, but no more than seven-  
32 teen members and shall include the commissioners of housing and communi-  
33 ty renewal, the chair of the department of public service,  
34 representatives of environmental justice communities and representatives  
35 of labor organizations, clean energy developers and at least five repre-  
36 sentatives of distinct energy-intensive industries. The just transition  
37 working group shall:

38 a. advise the council on issues and opportunities for workforce devel-  
39 opment and training related to energy efficiency measures, renewable  
40 energy and other clean energy technologies, with specific focus on  
41 training and workforce opportunities for disadvantaged communities, and  
42 segments of the population that may be underrepresented in the clean  
43 energy workforce such as veterans, women and formerly incarcerated  
44 persons;

45 b. identify energy-intensive industries and related trades and identi-  
46 fy sector specific impacts of the state's current workforce and avenues  
47 to maximize the skills and expertise of New York state workers in the  
48 new energy economy;

49 c. identify sites of electric generating facilities that may be closed  
50 as a result of a transition to a clean energy sector and the issues and  
51 opportunities presented by reuse of those sites;

52 d. with respect to potential for greenhouse gas emission limits devel-  
53 oped by the department of environmental conservation pursuant to this  
54 article, advise the council on the potential impacts of carbon leakage  
55 risk on New York state industries and local host communities, including

1 the impact of any potential carbon reduction measures on the competi-  
2 tiveness of New York state business and industry;

3 e. advise the council and conduct stakeholder outreach on any other  
4 workforce matters directed by the council; and

5 f. at a time frame determined by the council, prepare and publish  
6 recommendations to the council on how to address: issues and opportu-  
7 nities related to the energy-intensive and trade-exposed entities; work-  
8 force development for trade-exposed entities, disadvantaged communities  
9 and underrepresented segments of the population; measures to minimize  
10 the carbon leakage risk and minimize anti-competitiveness impacts of any  
11 potential carbon policies and energy sector mandates.

12 g. The just transitions working group is hereby authorized and  
13 directed to conduct a study of and report on:

14 i. The number of jobs created to counter climate change, which shall  
15 include but not be limited to the energy sector, building sector, trans-  
16 portation sector, and working lands sector;

17 ii. The projection of the inventory of jobs needed and the skills and  
18 training required to meet the demand of jobs to counter climate change;  
19 and

20 iii. Workforce disruption due to community transitions from a low  
21 carbon economy.

22 9. The department and NYSERDA New York State energy research and  
23 development authority shall provide the council with such facilities,  
24 assistance and data as will enable the council to carry out its powers  
25 and duties. Additionally, all other agencies of the state or subdivi-  
26 sions thereof may, at the request of the co-chairpersons, provide the  
27 council with such facilities, assistance, and data as will enable the  
28 council to carry out its powers and duties.

29 10. The council shall consult with the climate justice working group  
30 established in section 75-0111 of this article, the department of state  
31 utility intervention unit, and the federally designated electric bulk  
32 system operator.

33 11. The council shall on or before two years of the effective date of  
34 this article, prepare and approve a scoping plan outlining the recommen-  
35 dations for attaining the statewide greenhouse gas emissions limits in  
36 accordance with the schedule established in section 75-0107 of this  
37 article which shall inform the state energy planning board's adoption of  
38 a state energy plan in accordance with section 6-104 of the energy law.  
39 The first state energy plan issued subsequent to completion of the scop-  
40 ing plan required by this section shall incorporate the recommendations  
41 of the council.

42 12. The draft scoping plan shall be developed in consultation with the  
43 environmental justice advisory group, and the climate justice working  
44 group established pursuant to section 75-0111 of this article and other  
45 stakeholders.

46 a. The council shall hold at least six regional public comment hear-  
47 ings on the draft scoping plan, including three meetings in the upstate  
48 region and three meetings in the downstate region, and shall allow at  
49 least one hundred twenty days for the submission of public comment.

50 b. The council shall provide meaningful opportunities for public  
51 comment from all segments of the population who will be impacted by the  
52 plan, including persons living in disadvantaged communities as identi-  
53 fied pursuant to section 75-0111 of this article.

54 c. On or before thirty months of the effective date of this article,  
55 the council shall submit the final scoping plan to the governor, the



1 speaker of the assembly and the temporary president of the senate and  
2 post such plan on its website.

3 13. The scoping plan shall identify and make recommendations on regu-  
4 latory measures and other state actions that will ensure the attainment  
5 of the statewide greenhouse gas emissions limits established pursuant to  
6 section 75-0107 of this article. The measures and actions considered in  
7 such scoping plan shall at a minimum include:

8 a. Performance-based standards for sources of greenhouse gas emis-  
9 sions, including but not limited to sources in the transportation,  
10 building, industrial, commercial, and agricultural sectors.

11 b. Measures to reduce emissions from the electricity sector by  
12 displacing fossil-fuel fired electricity with renewable electricity or  
13 energy efficiency.

14 c. Land-use and transportation planning measures aimed at reducing  
15 greenhouse gas emissions from motor vehicles.

16 d. Measures to achieve long-term carbon sequestration and/or promote  
17 best management practices in land use, agriculture and forestry.

18 e. Measures to achieve six gigawatts of distributed solar energy  
19 capacity installed in the state by two thousand twenty-five, nine giga-  
20 watts of offshore wind capacity installed by two thousand thirty-five, a  
21 statewide energy efficiency goal of one hundred eighty-five trillion  
22 British thermal units energy reduction from the two thousand twenty-five  
23 forecast; and three gigawatts of statewide energy storage capacity by  
24 two thousand thirty.

25 f. Measures to promote the beneficial electrification of personal and  
26 freight transport and other strategies to reduce greenhouse gas emis-  
27 sions from the transportation sector.

28 g. Measures to achieve reductions in energy use in existing residen-  
29 tial or commercial buildings, including the beneficial electrification  
30 of water and space heating in buildings, establishing appliance effi-  
31 ciency standards, strengthening building energy codes, requiring annual  
32 building energy benchmarking, disclosing energy efficiency in home  
33 sales, and expanding the ability of state facilities to utilize perform-  
34 ance contracting.

35 h. Recommendations to aid in the transition of the state workforce and  
36 the rapidly emerging clean energy industry.

37 i. Measures to achieve healthy forests that support clean air and  
38 water, biodiversity, and sequester carbon.

39 j. Measures to limit the use of chemicals, substances or products that  
40 contribute to global climate change when released to the atmosphere, but  
41 are not intended for end-use combustion.

42 k. Mechanisms to limit emission leakage as defined in subdivision  
43 eleven of section 75-0101 of this article.

44 l. Verifiable, enforceable and voluntary emissions reduction measures.

45 14. In developing such plan the council shall:

46 a. Consider all relevant information pertaining to greenhouse gas  
47 emissions reduction programs in states in the United States Climate  
48 Alliance, as well as other states, regions, localities, and nations.

49 b. Evaluate, using the best available economic models, emission esti-  
50 mation techniques and other scientific methods, the total potential  
51 costs and potential economic and non-economic benefits of the plan for  
52 reducing greenhouse gases, and make such evaluation publicly available.  
53 In conducting this evaluation, the council shall quantify:

54 i. The economic and social benefits of greenhouse gas emissions  
55 reductions, taking into account the value of carbon, established by the  
56 department pursuant to section 75-0113 of this article, any other tools

1 that the council deems useful and pertinent for this analysis, and any  
2 environmental, economic and public health co-benefits (such as the  
3 reduction of co-pollutants and the diversification of energy sources);  
4 and

5 ii. The costs of implementing proposed emissions reduction measures,  
6 and the emissions reductions that the council anticipates achieving  
7 through these measures.

8 c. Take into account the relative contribution of each source or  
9 source category to statewide greenhouse gas emissions, and the potential  
10 for adverse effects on small businesses, and recommend a de minimis  
11 threshold of greenhouse gas emissions below which emission reduction  
12 requirements will not apply.

13 d. Identify measures to maximize reductions of both greenhouse gas  
14 emissions and co-pollutants in disadvantaged communities as identified  
15 pursuant to section 75-0111 of this article.

16 15. The council shall update its plan for achieving the statewide  
17 greenhouse gas emissions limits at least once every five years and shall  
18 make such updates available to the governor, the speaker of the assembly  
19 and the temporary president of the senate and post such updates on its  
20 website.

21 16. The council shall identify existing climate change mitigation and  
22 adaptation efforts at the federal, state, and local levels and may make  
23 recommendations regarding how such policies may improve the state's  
24 efforts.

25 17. The council shall maintain a website that includes public access  
26 to the scoping plan and greenhouse gas limit information.  
27 § 75-0105. Statewide greenhouse gas emissions report.

28 1. No later than one year after the effective date of this article,  
29 and each year thereafter, the department shall issue a report on state-  
30 wide greenhouse gas emissions, expressed in tons of carbon dioxide  
31 equivalents, from all greenhouse gas emission sources in the state,  
32 including the relative contribution of each type of greenhouse gas and  
33 each type of source to the statewide total.

34 2. The statewide greenhouse gas emissions report shall be a comprehen-  
35 sive evaluation, informed by a variety of data, including but not limit-  
36 ed to:

37 a. information relating to the use of fossil fuels by sector, includ-  
38 ing for electricity generation, transportation, heating, and other  
39 combustion purposes;

40 b. information relating to fugitive and vented emissions from systems  
41 associated with the production, processing, transport, distribution,  
42 storage, and consumption of fossil fuels, including natural gas;

43 c. information relating to emissions from non-fossil fuel sources,  
44 including, but not limited to, garbage incinerators, biomass combustion,  
45 landfills and landfill gas generators, and anaerobic digesters;

46 d. information relating to emissions associated with manufacturing,  
47 chemical production, cement plants, and other processes that produce  
48 non-combustion emissions; and

49 e. information from sources that may be required to participate in the  
50 registration and reporting system pursuant to subdivision four of this  
51 section.

52 3. The statewide greenhouse gas emissions report shall also include an  
53 estimate of greenhouse gas emissions associated with the generation of  
54 imported electricity and with the extraction and transmission of fossil  
55 fuels imported into the state which shall be counted as part of the  
56 statewide total.

1 4. Within one year after the effective date of this article, the  
2 department shall consider establishing a mandatory registry and report-  
3 ing system from individual sources to obtain data on greenhouse gas  
4 emissions exceeding a particular threshold. If established, such regis-  
5 try and reporting system shall apply a consistent reporting threshold to  
6 ensure the unbiased collection of data.

7 5. The statewide greenhouse gas emissions report shall also include an  
8 estimate of what the statewide greenhouse gas emissions level was in  
9 1990.

10 6. The statewide greenhouse gas emissions report shall utilize best  
11 available science and methods of analysis, including the comparison and  
12 reconciliation of emission estimates from all sources, fuel consumption,  
13 field data, and peer-reviewed research.

14 7. The statewide greenhouse gas emissions report shall clearly explain  
15 the methodology and analysis used in the department's determination of  
16 greenhouse gas emissions and shall include a detailed explanation of any  
17 changes in methodology or analysis, adjustments made to prior estimates,  
18 as needed, and any other information necessary to establish a scientif-  
19 ically credible account of change.

20 8. The department shall hold at least two public hearings to seek  
21 public input regarding the methodology and analysis used in the determi-  
22 nation of statewide greenhouse gas emissions, and periodically thereaft-  
23 er.

24 § 75-0107. Statewide greenhouse gas emissions limits.

25 1. No later than one year after the effective date of this article,  
26 the department shall, pursuant to rules and regulations promulgated  
27 after at least one public hearing, establish a statewide greenhouse gas  
28 emissions limit as a percentage of 1990 emissions, as estimated pursuant  
29 to section 75-0105 of this article, as follows:

30 a. 2030: 60% of 1990 emissions.

31 b. 2040: 35% of 1990 emissions.

32 c. 2050: 15% of 1990 emissions.

33 2. Greenhouse gas emission limits shall be measured in units of carbon  
34 dioxide equivalents and identified for each individual type of green-  
35 house gas.

36 3. In order to ensure the most accurate determination feasible, the  
37 department shall utilize the best available scientific, technological,  
38 and economic information on greenhouse gas emissions and consult with  
39 the council, stakeholders, and the public in order to ensure that all  
40 emissions are accurately reflected in its determination of 1990 emis-  
41 sions levels.

42 4. In order to comply with the statewide greenhouse gas emissions  
43 limits promulgated pursuant to this section, a source may utilize the  
44 alternative compliance mechanism established pursuant to subdivision  
45 four of section 75-0109 of this article. The use of such mechanism shall  
46 be in accordance with the provisions of that subdivision.

47 § 75-0109. Promulgation of regulations to achieve statewide greenhouse  
48 gas emissions reductions.

49 1. No later than three years after the effective date of this article,  
50 the department, after public workshops and consultation with the coun-  
51 cil, the environmental justice advisory group, and the climate justice  
52 working group established pursuant to section 75-0111 of this article,  
53 representatives of regulated entities, community organizations, environ-  
54 mental groups, health professionals, labor unions, municipal corpo-  
55 rations, trade associations and other stakeholders, shall, after no less  
56 than two public hearings, promulgate rules and regulations to ensure

1 compliance with the statewide emissions reduction limits and work with  
2 other state agencies and authorities to promulgate regulations required  
3 by section ten of the chapter of the laws of two thousand nineteen that  
4 added this article.

5 2. The regulations promulgated by the department pursuant to this  
6 section shall:

7 a. Ensure that the aggregate emissions of greenhouse gases from green-  
8 house gas emission sources will not exceed the statewide greenhouse gas  
9 emissions limits established in section 75-0107 of this article.

10 b. Include legally enforceable emissions limits, performance stand-  
11 ards, or measures or other requirements to control emissions from green-  
12 house gas emission sources.

13 c. Reflect, in substantial part, the findings of the scoping plan  
14 prepared pursuant to section 75-0103 of this article.

15 d. Include measures to reduce emissions from greenhouse gas emission  
16 sources that have a cumulatively significant impact on statewide green-  
17 house gas emissions, such as internal combustion vehicles that burn  
18 gasoline or diesel fuel and boilers or furnaces that burn oil or natural  
19 gas.

20 3. In promulgating these regulations, the department shall:

21 a. Design and implement all regulations in a manner that seeks to be  
22 equitable, to minimize costs and to maximize the total benefits to New  
23 York, and encourages early action to reduce greenhouse gas emissions.

24 b. Ensure that greenhouse gas emissions reductions achieved are real,  
25 permanent, quantifiable, verifiable, and enforceable by the department.

26 c. Ensure that activities undertaken to comply with the regulations do  
27 not result in a net increase in co-pollutant emissions or otherwise  
28 disproportionately burden disadvantaged communities as identified pursu-  
29 ant to section 75-0111 of this article.

30 d. Prioritize measures to maximize net reductions of greenhouse gas  
31 emissions and co-pollutants in disadvantaged communities as identified  
32 pursuant to section 75-0111 of this article and encourage early action  
33 to reduce greenhouse gas emissions and co-pollutants.

34 e. Minimize leakage.

35 4. a. The department may establish an alternative compliance mechanism  
36 to be used by sources subject to greenhouse gas emissions limits to  
37 achieve compliance with their greenhouse gas emissions limits.

38 b. The use of such mechanism shall account for not greater than  
39 fifteen percent of statewide greenhouse gas emissions estimated as a  
40 percentage of nineteen ninety emissions pursuant to section 75-0105 of  
41 this article, provided that the use of this mechanism must offset a  
42 quantity greater than or equal to the greenhouse gases emitted. The  
43 offset of greenhouse gas emissions shall not result in disadvantaged  
44 communities having to bear a disproportionate burden of environmental  
45 impacts.

46 c. The department shall verify that greenhouse gas emission offset  
47 projects authorized pursuant to this subdivision represent greenhouse  
48 gas equivalent emission reductions or carbon sequestration that are  
49 real, additional, verifiable, enforceable, and permanent.

50 d. Any greenhouse gas emissions offset project shall comply with all  
51 of the requirements of this subdivision.

52 e. The department shall establish an application process that, at a  
53 minimum, requires a source to sufficiently demonstrate that compliance  
54 with the greenhouse gas emissions limits is not technologically feasi-  
55 ble, and that the source has reduced emissions to the maximum extent  
56 practicable. After an initial four year period, the department shall

1 review the participation of a source in this mechanism, and make a  
2 determination as to the source's continued need for an alternative  
3 compliance, considering the extent to which the source is utilizing the  
4 best available technology standards.

5 f. Sources in the electric generation sector shall not be eligible to  
6 participate in such mechanism.

7 g. The following types of projects shall be prohibited:

8 i. waste-to-energy projects, including incineration and pyrolysis; and

9 ii. biofuels used for energy or transportation purposes.

10 h. Any greenhouse gas emission offset project approved by the depart-  
11 ment shall:

12 i. be designed to provide a discernable benefit to the environment  
13 rather than to the source;

14 ii. be located in the same county, and within twenty-five linear  
15 miles, of the source of emissions, to the extent practicable;

16 iii. enhance the conditions of the ecosystem or geographic area  
17 adversely affected; and

18 iv. substantially reduce or prevent the generation or release of  
19 pollutants through source reduction.

20 i. A greenhouse gas emission offset project shall not be approved by  
21 the department where the project:

22 i. is required pursuant to any local, state or federal law, regu-  
23 lation, or administrative or judicial order;

24 ii. contains measures which the source would have undertaken anyway  
25 within the next five years;

26 iii. contributes to environmental research at a college or university;  
27 or

28 iv. is a study or assessment without a commitment to implement the  
29 results.

30 j. In approving greenhouse gas emission offset projects, the depart-  
31 ment shall prioritize projects that maximize public health and environ-  
32 mental benefits within the state and especially localized benefits in  
33 disadvantaged communities, defined pursuant to section 75-0111 of this  
34 article.

35 k. The department shall establish a public registry of greenhouse gas  
36 emission offset projects approved pursuant to this subdivision.

37 l. Prior to the inclusion of any alternative compliance mechanism in  
38 the regulations, to the extent feasible and in the furtherance of  
39 achieving the statewide greenhouse gas emissions limit, the department  
40 shall do all of the following:

41 i. consult with the council, the environmental justice advisory group,  
42 and the climate justice working group;

43 ii. consider the potential for direct, indirect, and cumulative emis-  
44 sion impacts from this mechanism, including localized impacts in disad-  
45 vantaged communities as identified pursuant to section 75-0111 of this  
46 article;

47 iii. design the alternative compliance mechanism to prevent any  
48 increase in the emissions of co-pollutants; and

49 iv. maximize additional environmental, public health, and economic  
50 benefits for the state and for disadvantaged communities identified  
51 pursuant to section 75-0111 of this article, as appropriate.

52 § 75-0111. Climate justice working group.

53 1. There is hereby created, no later than six months after the effec-  
54 tive date of this article, a "climate justice working group". Such work-  
55 ing group will be comprised of representatives from: environmental  
56 justice communities, the department, the department of health, the New

1 York state energy and research development authority, and the department  
2 of labor.

3 a. Environmental justice community representatives shall be members of  
4 communities of color, low-income communities, and communities bearing  
5 disproportionate pollution and climate change burdens, or shall be  
6 representatives of community-based organizations with experience and a  
7 history of advocacy on environmental justice issues, and shall include  
8 at least three representatives from New York city communities, three  
9 representatives from rural communities, and three representatives from  
10 upstate urban communities.

11 b. The working group, in consultation with the department, the depart-  
12 ments of health and labor, the New York state energy and research devel-  
13 opment authority, and the environmental justice advisory group, will  
14 establish criteria to identify disadvantaged communities for the  
15 purposes of co-pollutant reductions, greenhouse gas emissions  
16 reductions, regulatory impact statements, and the allocation of invest-  
17 ments related to this article.

18 c. Disadvantaged communities shall be identified based on geographic,  
19 public health, environmental hazard, and socioeconomic criteria, which  
20 shall include but are not limited to:

21 i. areas burdened by cumulative environmental pollution and other  
22 hazards that can lead to negative public health effects;

23 ii. areas with concentrations of people that are of low income, high  
24 unemployment, high rent burden, low levels of home ownership, low levels  
25 of educational attainment, or members of groups that have historically  
26 experienced discrimination on the basis of race or ethnicity; and

27 iii. areas vulnerable to the impacts of climate change such as flood-  
28 ing, storm surges, and urban heat island effects.

29 2. Before finalizing the criteria for identifying disadvantaged commu-  
30 nities and identifying disadvantaged communities pursuant to subdivision  
31 one of this section, the department shall publish draft criteria and a  
32 draft list of disadvantaged communities and make such information avail-  
33 able on its website.

34 a. The department shall hold at least six regional public hearings on  
35 the draft criteria and the draft list of disadvantaged communities,  
36 including three meetings in the upstate region and three meetings in the  
37 downstate region, and shall allow at least one hundred twenty days for  
38 the submission of public comment.

39 b. The department shall also ensure that there are meaningful opportu-  
40 nities for public comment for all persons who will be impacted by the  
41 criteria, including persons living in areas that may be identified as  
42 disadvantaged communities under the proposed criteria.

43 3. The group will meet no less than annually to review the criteria  
44 and methods used to identify disadvantaged communities and may modify  
45 such methods to incorporate new data and scientific findings. The  
46 climate justice working group shall review identities of disadvantaged  
47 communities and modify such identities as needed.

48 § 75-0113. Value of carbon.

49 1. No later than one year after the effective date of this article,  
50 the department, in consultation with the New York state energy research  
51 and development authority, shall establish a social cost of carbon for  
52 use by state agencies, expressed in terms of dollars per ton of carbon  
53 dioxide equivalent.

54 2. The social cost of carbon shall serve as a monetary estimate of the  
55 value of not emitting a ton of greenhouse gas emissions. As determined  
56 by the department, the social cost of carbon may be based on marginal

1 greenhouse gas abatement costs or on the global economic, environmental,  
2 and social impacts of emitting a marginal ton of greenhouse gas emis-  
3 sions into the atmosphere, utilizing a range of appropriate discount  
4 rates, including a rate of zero.

5 3. In developing the social cost of carbon, the department shall  
6 consider prior or existing estimates of the social cost of carbon issued  
7 or adopted by the federal government, appropriate international bodies,  
8 or other appropriate and reputable scientific organizations.

9 § 75-0115. Community air monitoring program.

10 1. For purposes of this section, the following definitions and related  
11 provisions shall apply:

12 a. "Community air monitoring system" means advanced sensing monitoring  
13 equipment that measures and records air pollutant concentrations in the  
14 ambient air at or near sensitive receptor locations in disadvantaged  
15 communities.

16 b. "Disadvantaged community" means a community identified as disadvan-  
17 tagged pursuant to the criteria set forth in section 75-0111 of this  
18 article.

19 c. "Sensitive receptors" includes hospitals, schools and day care  
20 centers, and such other locations as the department may determine.

21 2. a. On or before October first, two thousand twenty-one, the depart-  
22 ment shall prepare, in consultation with the climate justice working  
23 group, a program demonstrating community air monitoring systems.

24 b. The program shall identify the highest priority locations in disad-  
25 vantaged communities around the state to deploy community air monitoring  
26 systems, which shall be communities with potentially high exposure  
27 burdens for toxic air contaminants and criteria air pollutants. The  
28 program shall be undertaken in no less than four communities statewide  
29 with regional consideration.

30 c. The department shall publish the air quality data produced by the  
31 community air monitoring systems deployed pursuant to this section on  
32 its website as it becomes available.

33 3. On or before June first, two thousand twenty-three, the department  
34 shall prepare, in consultation with the climate justice working group, a  
35 strategy to reduce emissions of toxic air contaminants and criteria air  
36 pollutants in disadvantaged communities affected by a high cumulative  
37 exposure burden. The strategy shall include criteria for the development  
38 of community emission reduction programs. The criteria presented in the  
39 strategy shall include, but are not limited to, the following:

40 a. an assessment and identification of communities with high cumula-  
41 tive exposure burdens for toxic air contaminants and criteria air pollu-  
42 tants.

43 b. a methodology for assessing and identifying the contributing sourc-  
44 es or categories of sources, including, but not limited to, stationary  
45 and mobile sources, and an estimate of their relative contribution to  
46 elevated exposure to air pollution in impacted communities identified  
47 pursuant to paragraph a of this subdivision.

48 c. an assessment of the existing and available measures for reducing  
49 emissions from the contributing sources or categories of sources identi-  
50 fied pursuant to paragraph b of this subdivision.

51 4. a. Based on the assessment and identification of disadvantaged  
52 communities with high cumulative exposure burdens for toxic air contam-  
53 inants and criteria air pollutants completed pursuant to paragraph a of  
54 subdivision three of this section, the department shall select disadvan-  
55 tagged communities around the state for preparation of community emis-

1 sions reduction programs. The department may select additional locations  
2 annually thereafter, as appropriate.

3 b. The department shall have the authority to adopt regulations estab-  
4 lishing programs to achieve emissions reductions for the locations  
5 selected using the most cost-effective measures identified pursuant to  
6 paragraph c of subdivision three of this section.

7 § 75-0117. Investment of funds.

8 The department, in consultation with the New York state energy  
9 research and development authority, shall establish a goal of investing,  
10 in a manner that will benefit disadvantaged communities identified  
11 pursuant to section 75-0111 of this article, no less than forty percent  
12 of any funds collected pursuant to any alternative compliance mechanism  
13 authorized pursuant to this article, any funds authorized by the public  
14 service commission to be collected solely for and directed to the New  
15 York state research and development authority, and any funds collected  
16 by the New York state energy research and development authority from the  
17 auction or sale of carbon dioxide emission allowances allocated by the  
18 department; provided however, such investments shall be no less than  
19 thirty-five percent of any such funds. Such funds shall be invested, in  
20 a manner consistent with the purposes of this article, including, but  
21 not limited to increased access to renewable energy, energy efficiency,  
22 weatherization, zero- and low-emission transportation, and adaptation  
23 opportunities. The department and authority shall consult with the  
24 climate justice working group in developing and carrying out such  
25 investments.

26 § 75-0119. Implementation reporting.

27 1. The department shall, not less than every four years, publish a  
28 report which shall include recommendations regarding the implementation  
29 of greenhouse gas reduction measures.

30 2. The report shall, at minimum, include:

31 a. Whether the state is on track to meet the statewide greenhouse gas  
32 emissions limits established in section 75-0107 of this article.

33 b. An assessment of existing regulations and whether modifications are  
34 needed to ensure fulfillment of the statewide greenhouse gas emissions  
35 limits.

36 c. An overview of social benefits from the regulations or other meas-  
37 ures, including reductions in greenhouse gas emissions and copollutants,  
38 diversification of energy sources, and other benefits to the economy,  
39 environment, and public health.

40 d. An overview of compliance costs for regulated entities and for the  
41 department and other state agencies.

42 e. Whether regulations or other greenhouse gas reduction measures  
43 undertaken are equitable, minimize costs and maximize the total benefits  
44 to the state, and encourage early action.

45 f. Whether activities undertaken to comply with state regulations  
46 disproportionately burden disadvantaged communities as identified pursu-  
47 ant to section 75-0111 of this article.

48 g. An assessment of local benefits and impacts of any reductions in  
49 co-pollutants related to reductions in statewide and local greenhouse  
50 gas emissions.

51 h. An assessment of disadvantaged communities' access to or community  
52 ownership of the services and commodities identified in section eight of  
53 the chapter of the laws of two thousand nineteen which added this arti-  
54 cle.



1 i. Whether entities that have voluntarily reduced their greenhouse gas  
2 emissions prior to the implementation of this article receive appropri-  
3 ate credit for early voluntary reductions.

4 j. Recommendations for future regulatory and policy action.

5 3. In preparing this report, the department shall, at a minimum,  
6 consult with the council, and the climate justice working group estab-  
7 lished in section 75-0111 of this article.

8 4. The report shall be published and posted on the department's  
9 website.

10 § 3. Paragraphs f and g of subdivision 1 of section 54-1523 of the  
11 environmental conservation law, as added by section 5 of part U of chap-  
12 ter 58 of the laws of 2016, are amended and a new paragraph h is added  
13 to read as follows:

14 f. enabling communities to become certified under the climate smart  
15 communities program, including by developing natural resources invento-  
16 ries, right sizing of municipal fleets and developing climate adaptation  
17 strategies; ~~and~~

18 g. climate change adaptation planning and supporting studies, includ-  
19 ing but not limited to vulnerability assessment and risk analysis of  
20 municipal drinking water, wastewater, and transportation infrastruc-  
21 ture~~[-]~~; and

22 h. to establish and implement easily-replicated renewable energy  
23 projects, including solar arrays, heat pumps and wind turbines in public  
24 low-income housing in suburban, urban and rural areas.

25 § 4. The public service law is amended by adding a new section 66-p to  
26 read as follows:

27 § 66-p. Establishment of a renewable energy program. 1. As used in  
28 this section:

29 (a) "load serving entity" means any entity that secures energy to  
30 serve the electrical energy requirements of end-use customers in New  
31 York state;

32 (b) "prevailing rate of wages" shall have the same meaning as such  
33 term is defined in paragraph a of subdivision five of section two  
34 hundred twenty of the labor law; and

35 (c) "renewable energy systems" means systems that generate electricity  
36 or thermal energy through use of the following technologies: solar ther-  
37 mal, photovoltaics, wind, hydroelectric, geothermal electric, geothermal  
38 ground source heat, tidal energy, wave energy, ocean thermal, offshore  
39 wind and fuel cells which do not utilize a fossil fuel resource in the  
40 process of generating electricity.

41 2. No later than July first, two thousand twenty, the commission shall  
42 establish a program to require that a minimum of seventy percent of the  
43 statewide electric generation secured by load serving entities to meet  
44 the electrical energy requirements of all end-use customers in New York  
45 state in two thousand thirty shall be generated by renewable energy  
46 systems.

47 The commission shall set annual minimum percentage levels of electric-  
48 ity generated by renewable energy systems and delivered to end-use  
49 customers in New York state for each year of the program, provided that  
50 the program achieve the following incremental minimum percentage levels:

51 (a) thirty-eight percent by two thousand twenty-two;

52 (b) forty-six percent by two thousand twenty-four;

53 (c) fifty-four percent by two thousand twenty-six;

54 (d) sixty-two percent by two thousand twenty-eight; and

55 (e) seventy percent by two thousand thirty.

1 3. No later than July first, two thousand twenty-one and every two  
2 years thereafter, the commission shall, after notice and provision for  
3 the opportunity to comment, issue a comprehensive review of the program  
4 established pursuant to this section. The commission shall determine,  
5 among other matters: (a) progress in meeting the overall annual and  
6 incremental targets for deployment of renewable energy systems; (b)  
7 distribution of systems by size and load zone; and (c) annual funding  
8 commitments and expenditures. The commission shall evaluate the annual  
9 and incremental targets established pursuant to subdivision two of this  
10 section and determine whether the annual and incremental targets should  
11 be accelerated, increased or extended, taking into consideration load  
12 modifications associated with, but not limited to, energy efficiency  
13 measures and the electrification of transportation, heating systems and  
14 industrial processes.

15 4. The commission may temporarily suspend or modify the obligations  
16 under such program provided that the commission, after conducting a  
17 hearing as provided in section twenty of this chapter, makes a finding  
18 that the program impedes the provision of safe and adequate electric  
19 service or that there is a significant increase in arrears or service  
20 disconnections that the commission determines is related to the program.

21 5. Every contractor employed pursuant to this section, not otherwise  
22 required to pay laborers, workers or mechanics the prevailing rate of  
23 wages pursuant to article eight of the labor law, shall pay employees  
24 under contract for the development of renewable energy systems rated at  
25 two hundred fifty kilowatts or more, a wage of not less than the  
26 prevailing rate of wages for such work in the locality where such  
27 installation occurs. This requirement shall be in effect for the dura-  
28 tion of the receipt by the contractor of the incentives established  
29 pursuant to this section and in no event shall such requirement extend  
30 beyond the availability of such incentives. Every contractor subject to  
31 the provisions of this subdivision shall maintain payroll records in  
32 accordance with section two hundred twenty of the labor law.

33 6. No later than July first, two thousand twenty-four, the commission  
34 shall establish programs to require the procurement by the state's load  
35 serving entities of at least:

36 (a) nine gigawatts of offshore wind electric generation by two thou-  
37 sand thirty-five;

38 (b) six gigawatts of distributed photovoltaic solar generation by two  
39 thousand twenty-five;

40 (c) three gigawatts of statewide energy storage capacity by two thou-  
41 sand thirty; and

42 (d) one hundred eighty-five trillion British thermal units of end-use  
43 energy savings below the two thousand twenty-five energy-use forecast.

44 7. In the allocation of ratepayer funds for clean energy, direct the  
45 energy research and development authority and investor owned utilities  
46 to develop and report metrics for energy savings and clean energy market  
47 penetration in the low and moderate income market and in disadvantaged  
48 communities, and post such information on the website.

49 § 5. Section 1005 of the public authorities law is amended by adding a  
50 new subdivision 28 to read as follows:

51 28. Renewable energy program. As deemed feasible and advisable by the  
52 trustees, no later than July first, two thousand twenty, the authority  
53 shall secure energy to serve the electrical energy requirements of its  
54 end-use customers in accordance with the renewable energy program as set  
55 forth and defined in section sixty-six-p of the public service law.

1 § 6. Sections 1020-kk, 1020-ll and 1020-ll of the public authorities  
2 law, 1020-kk and 1020-ll as renumbered by chapter 520 of the laws of  
3 2018, and 1020-ll as renumbered by chapter 415 of the laws of 2017, are  
4 renumbered sections 1020-xx, 1020-yy and 1020-zz and a new section  
5 1020-kk is added to read as follows:

6 § 1020-kk. Renewable energy program. The authority and all load serv-  
7 ing entities that secure energy to serve the electrical energy require-  
8 ments of end-use customers in its service territory shall comply with  
9 the renewable energy program as set forth and defined in section sixty-  
10 six-p of the public service law.

11 § 6-a. Subdivision 1 of section 1020-s of the public authorities law,  
12 as amended by chapter 415 of the laws of 2017, is amended to read as  
13 follows:

14 1. The rates, services and practices relating to the electricity  
15 generated by facilities owned or operated by the authority shall not be  
16 subject to the provisions of the public service law or to regulation by,  
17 or the jurisdiction of, the public service commission, except to the  
18 extent (a) article seven of the public service law applies to the siting  
19 and operation of a major utility transmission facility as defined there-  
20 in, (b) article ten of such law applies to the siting of a generating  
21 facility as defined therein, (c) section eighteen-a of such law provides  
22 for assessment for certain costs, property or operations, (d) to the  
23 extent that the department of public service reviews and makes recommen-  
24 dations with respect to the operations and provision of services of, and  
25 rates and budgets established by, the authority pursuant to section  
26 three-b of such law, [~~and~~] (e) that section seventy-four of the public  
27 service law applies to qualified energy storage systems within the  
28 authority's jurisdiction and (f) that section sixty-six-p of the public  
29 service law applies to the authority and load serving entities that  
30 secure energy to serve the electrical energy requirements of end-use  
31 customers within the authority's jurisdiction.

32 § 7. The labor law is amended by adding a new article 8-B to read as  
33 follows:

#### 34 ARTICLE 8-B

#### 35 LABOR AND JOB STANDARDS AND WORKER PROTECTION

#### 36 Section 228. Labor and job standards and worker protection.

37 § 228. Labor and job standards and worker protection. 1. All state  
38 agencies involved in implementing the New York state climate and commu-  
39 nity protection act shall assess and implement strategies to increase  
40 employment opportunities and improve job quality. Within one hundred  
41 twenty days of the effective date of this section, all state agencies,  
42 offices, authorities, and divisions shall report to the legislature on:  
43 a. steps they will take to ensure compliance with this section; and  
44 b. regulations necessary to ensure that they prioritize the statewide  
45 goal of creating good jobs and increasing employment opportunities.

46 2. In considering and issuing permits, licenses, regulations,  
47 contracts, and other administrative approvals and decisions pursuant to  
48 the New York state climate and community protection act, all state agen-  
49 cies, offices, authorities, and divisions shall apply the following  
50 labor, training, and job quality standards to the following project  
51 types: public work; projects in receipt of more than one hundred thou-  
52 sand dollars in total financial assistance; or to projects with a total  
53 value of more than ten million dollars; and privately-financed projects  
54 on public property.

55 a. the payment of no less than prevailing wages for all employees in  
56 construction and building, consistent with article eight of the this

1 chapter, and building services, consistent with article nine of this  
2 chapter;

3 b. the inclusion of contract language requiring contractors to estab-  
4 lish labor harmony policies; dispute resolution mechanisms; prevailing  
5 wage compliance; safety policies; workers compensation insurance  
6 (including review of contractor experience rating and other factors);  
7 and apprenticeship program appropriate for crafts employed. Procurement  
8 rules should encourage bundling of small contracts and projects to  
9 improve the efficiency of compliance;

10 c. apprenticeship utilization:

11 i. that all contractors and subcontractors, including those that  
12 participate in power purchase agreements, energy performance contracts,  
13 or other similar programs, participate in apprenticeship programs in the  
14 trades in which they are performing work;

15 ii. maximum use of apprentices as per department of labor approved  
16 ratios;

17 iii. encouragement of affiliated pre-apprentice direct entry programs,  
18 including but not limited to EJM Construction Skills; NYC Helmets to  
19 Hardhats, and Nontraditional Employment for Women (NEW) for the recruit-  
20 ment of local and/or disadvantaged workers;

21 iv. existing workforce development programs, including those at the  
22 New York state energy research and development authority, should be made  
23 to conform to these standards.

24 3. The commissioner, the fiscal officer and other relevant agencies  
25 shall promulgate such regulations as are necessary to implement and  
26 administer compliance with the provisions of this section. The depart-  
27 ment and the fiscal officer shall coordinate with organized labor and  
28 local and county level governments to implement a system to track  
29 compliance, accept reports of non-compliance for enforcement action, and  
30 report annually on the adoption of these standards to the legislature  
31 starting one year from the effective date of this section.

32 a. For the purposes of this section, "fiscal officer" shall mean the  
33 industrial commissioner, except for construction and building service  
34 work performed by or on behalf of a city, in which case "fiscal officer"  
35 shall mean the comptroller or other analogous officer of such city.

36 b. The provisions of the contract by the recipient of financial  
37 assistance pertaining to prevailing wages are to be considered a  
38 contract for the benefit of construction and building service workers,  
39 upon which such workers shall have the right to maintain action for the  
40 difference between the prevailing wage rate of pay, benefits, and paid  
41 leave and the rates of pay, benefits, and paid leave actually received  
42 by them, and including attorney's fees.

43 c. i. Where a recipient of financial assistance contracts building  
44 service work to a building service contractor, the contractor is held to  
45 the same obligations with respect to prevailing wages as the recipient.  
46 The recipient must include terms establishing this obligation within any  
47 contract signed with a contractor.

48 ii. Where a recipient of financial assistance contracts for  
49 construction, excavation, demolition, rehabilitation, repair, reno-  
50 vation, alteration or improvement to a subcontractor, the subcontractor  
51 is held to the same obligations with respect to prevailing wages as the  
52 recipient. The recipient must include terms establishing this obligation  
53 within any contract signed with a subcontractor.

54 4. For the purposes of this section "financial assistance" means any  
55 provision of public funds to any person, individual, proprietorship,  
56 partnership, joint venture, corporation, limited liability company,

1 trust, association, organization, or other entity that receives finan-  
2 cial assistance, or any assignee or successor in interest of real prop-  
3 erty improved or developed with financial assistance, for economic  
4 development within the state, including but not limited to cash payments  
5 or grants, bond financing, tax abatements or exemptions, including but  
6 not limited to abatements or exemptions from real property, mortgage  
7 recording, sales, and use taxes, or the difference between any payments  
8 in lieu of taxes and the amount of real property or other taxes that  
9 would have been due if the property were not exempted from such taxes,  
10 tax increment financing, filing fee waivers, energy cost reductions,  
11 environmental remediation costs, write-downs in the market value of  
12 buildings or land, or the cost of capital improvements related to real  
13 property for which the state would not pay absent the development  
14 project, and includes both discretionary and as of right assistance. The  
15 provisions of this section shall only apply to projects receiving more  
16 than one hundred thousand dollars in total financial assistance, or to  
17 projects with a total project value of more than ten million dollars.

18 5. The commissioner shall evaluate whether there are additional stand-  
19 ards that could be applied to increase wage and benefit standards or to  
20 encourage a safe, well-trained, and adequately compensated workforce.

21 6. Nothing set forth in this section shall be construed to impede,  
22 infringe, or diminish the rights and benefits which accrue to employees  
23 through bona fide collective bargaining agreements, or otherwise dimin-  
24 ish the integrity of the existing collective bargaining relationship.

25 7. Nothing set forth in this section shall preclude a local government  
26 from setting additional standards that expand on these state-wide stand-  
27 ards.

28 § 8. Report on barriers to, and opportunities for, community ownership  
29 of services and commodities in disadvantaged communities. 1. On or  
30 before two years of the effective date of this act, the department of  
31 environmental conservation, with input from relevant state agencies, the  
32 environmental justice advisory group as defined in section 75-0101 of  
33 the environmental conservation law, the climate justice working group as  
34 defined in section 75-0111 of the environmental conservation law and  
35 Climate Action Council established in article 75 of the environmental  
36 conservation law, and following at least two public hearings, shall  
37 prepare a report on barriers to, and opportunities for, access to or  
38 community ownership of the following services and commodities in disad-  
39 vantaged communities as identified in article 75 of the environmental  
40 conservation law:

- 41 a. Distributed renewable energy generation.
- 42 b. Energy efficiency and weatherization investments.
- 43 c. Zero-emission and low-emission transportation options.
- 44 d. Adaptation measures to improve the resilience of homes and local  
45 infrastructure to the impacts of climate change including but not limit-  
46 ed to microgrids.
- 47 e. Other services and infrastructure that can reduce the risks associ-  
48 ated with climate-related hazards, including but not limited to:
  - 49 i. Shelters and cool rooms during extreme heat events;
  - 50 ii. Shelters during flooding events; and
  - 51 iii. Medical treatment for asthma and other conditions that could be  
52 exacerbated by climate-related events.

53 2. The report, which shall be submitted to the governor, the speaker  
54 of the assembly and the temporary president of the senate and posted on  
55 the department of environmental conservation website, shall include

1 recommendations on how to increase access to the services and commod-  
2 ities.

3 3. The department of environmental conservation shall amend the scop-  
4 ing plan for statewide greenhouse gas emissions reductions in accordance  
5 with the recommendations included in the report.

6 § 9. Climate change actions by state agencies. 1. All state agencies  
7 shall assess and implement strategies to reduce their greenhouse gas  
8 emissions.

9 2. In considering and issuing permits, licenses, and other administra-  
10 tive approvals and decisions, including but not limited to the execution  
11 of grants, loans, and contracts, all state agencies, offices, authori-  
12 ties, and divisions shall consider whether such decisions are inconsis-  
13 tent with or will interfere with the attainment of the statewide green-  
14 house gas emissions limits established in article 75 of the  
15 environmental conservation law. Where such decisions are deemed to be  
16 inconsistent with or will interfere with the attainment of the statewide  
17 greenhouse gas emissions limits, each agency, office, authority, or  
18 division shall provide a detailed statement of justification as to why  
19 such limits/criteria may not be met, and identify alternatives or green-  
20 house gas mitigation measures to be required where such project is  
21 located.

22 3. In considering and issuing permits, licenses, and other administra-  
23 tive approvals and decisions, including but not limited to the execution  
24 of grants, loans, and contracts, pursuant to article 75 of the environ-  
25 mental conservation law, all state agencies, offices, authorities, and  
26 divisions shall not disproportionately burden disadvantaged communities  
27 as identified pursuant to subdivision 5 of section 75-0101 of the envi-  
28 ronmental conservation law. All state agencies, offices, authorities,  
29 and divisions shall also prioritize reductions of greenhouse gas emis-  
30 sions and co-pollutants in disadvantaged communities as identified  
31 pursuant to such subdivision 5 of section 75-0101 of the environmental  
32 conservation law.

33 § 10. Authorization for other state agencies to promulgate greenhouse  
34 gas emissions regulations. 1. The public service commission, the New  
35 York state energy research and development authority, the department of  
36 health, the department of transportation, the department of state, the  
37 department of economic development, the department of agriculture and  
38 markets, the department of financial services, the office of general  
39 services, the division of housing and community renewal, the public  
40 utility authorities established pursuant to titles 1, 1-A, 1-B, 11,  
41 11-A, 11-B, 11-C and 11-D of article 5 of the public authorities law and  
42 any other state agency shall promulgate regulations to contribute to  
43 achieving the statewide greenhouse gas emissions limits established in  
44 article 75 of the environmental conservation law. Provided, however, any  
45 such regulations shall not limit the department of environmental conser-  
46 vation's authority to regulate and control greenhouse gas emissions  
47 pursuant to article 75 of the environmental conservation law.

48 § 11. Chapter 355 of the laws of 2014, constituting the community risk  
49 and resiliency act, is amended by adding two new sections 17-a and 17-b  
50 to read as follows:

51 § 17-a. The department of environmental conservation shall take  
52 actions to promote adaptation and resilience, including:

53 (a) actions to help state agencies and other entities assess the  
54 reasonably foreseeable risks of climate change on any proposed projects,  
55 taking into account issues such as: sea level rise, tropical and extra-  
56 tropical cyclones, storm surges, flooding, wind, changes in average and

1 peak temperatures, changes in average and peak precipitation, public  
2 health impacts, and impacts on species and other natural resources.

3 (b) identifying the most significant climate-related risks, taking  
4 into account the probability of occurrence, the magnitude of the poten-  
5 tial harm, and the uncertainty of the risk.

6 (c) measures that could mitigate significant climate-related risks, as  
7 well as a cost-benefit analysis and implementation of such measures.

8 § 17-b. Major permits for the regulatory programs of subdivision three  
9 of section 70-0107 of the environmental conservation law shall require  
10 applicants to demonstrate that future physical climate risk has been  
11 considered. In reviewing such information the department may require the  
12 applicant to mitigate significant risks to public infrastructure and/or  
13 services, private property not owned by the applicant, adverse impacts  
14 on disadvantaged communities, and/or natural resources in the vicinity  
15 of the project.

16 § 12. Nothing in this act shall limit the existing authority of a  
17 state entity to adopt and implement greenhouse gas emissions reduction  
18 measures.

19 § 13. Nothing in this act shall relieve any person, entity, or public  
20 agency of compliance with other applicable federal, state, or local laws  
21 or regulations, including state air and water quality requirements, and  
22 other requirements for protecting public health or the environment.

23 § 14. Review under this act may be had in a proceeding under article  
24 78 of the civil practice law and rules at the instance of any person  
25 aggrieved.

26 § 15. Severability. If any word, phrase, clause, sentence, paragraph,  
27 section, or part of this act shall be adjudged by any court of competent  
28 jurisdiction to be invalid, such judgement shall not affect, impair, or  
29 invalidate the remainder thereof, but shall be confined in its operation  
30 to the word, phrase, clause, sentence, paragraph, section, or part ther-  
31 eof directly involved in the controversy in which such judgement shall  
32 have been rendered.

33 § 16. This act shall take effect on the same date and in the same  
34 manner as a chapter of the laws of 2019, amending the environmental  
35 conservation law, relating to establishing a permanent environmental  
36 justice advisory group and an environmental justice interagency coordi-  
37 nating council, as proposed in legislative bills numbers S. 2385 and A.  
38 1564, takes effect; provided further, the provisions of section seven of  
39 this act shall take effect on the one hundred eightieth day after it  
40 shall have become a law and shall apply to any grants, loans, and  
41 contracts and financial assistance awarded or renewed on or after such  
42 effective date.