

111TH CONGRESS  
1ST SESSION

# S. 598

To amend the Energy Policy and Conservation Act to improve appliance standards, and for other purposes.

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IN THE SENATE OF THE UNITED STATES

MARCH 16, 2009

Mr. BINGAMAN (for himself and Ms. MURKOWSKI) introduced the following bill; which was read twice and referred to the Committee on Energy and Natural Resources

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## A BILL

To amend the Energy Policy and Conservation Act to improve appliance standards, and for other purposes.

1 *Be it enacted by the Senate and House of Representa-*  
2 *tives of the United States of America in Congress assembled,*

3 **SECTION 1. SHORT TITLE; TABLE OF CONTENTS.**

4 (a) **SHORT TITLE.**—This Act may be cited as the  
5 “Appliance Standards Improvement Act of 2009”.

6 (b) **TABLE OF CONTENTS.**—The table of contents of  
7 this Act is as follows:

- Sec. 1. Short title; table of contents.
- Sec. 2. Test procedure petition process.
- Sec. 3. Energy Star program.
- Sec. 4. Petition for amended standards.
- Sec. 5. Portable light fixtures.
- Sec. 6. GU-24 base lamps.

Sec. 7. Study of compliance with energy standards for appliances.  
 Sec. 8. Study of direct current electricity supply in certain buildings.  
 Sec. 9. Motor market assessment and commercial awareness program.

1 **SEC. 2. TEST PROCEDURE PETITION PROCESS.**

2 (a) CONSUMER PRODUCTS OTHER THAN AUTO-  
 3 MOBILES.—Section 323(b)(1) of the Energy Policy and  
 4 Conservation Act (42 U.S.C. 6293(b)(1)) is amended—

5 (1) in subparagraph (A)(i), by striking  
 6 “amend” and inserting “publish in the Federal Reg-  
 7 ister amended”; and

8 (2) by adding at the end the following:

9 “(B) PETITIONS.—

10 “(i) IN GENERAL.—In the case of any  
 11 covered product, any person may petition  
 12 the Secretary to conduct a rulemaking—

13 “(I) to prescribe a test procedure  
 14 for the covered product; or

15 “(II) to amend the test proce-  
 16 dures applicable to the covered prod-  
 17 uct to more accurately or fully comply  
 18 with paragraph (3).

19 “(ii) DETERMINATION.—The Sec-  
 20 retary shall—

21 “(I) not later than 90 days after  
 22 the date of receipt of the petition,  
 23 publish the petition in the Federal  
 24 Register; and

1                   “(II) not later than 180 days  
2                   after the date of receipt of the peti-  
3                   tion, grant or deny the petition.

4                   “(iii) BASIS.—The Secretary shall  
5                   grant a petition if the Secretary finds that  
6                   the petition contains evidence that, assum-  
7                   ing no other evidence was considered, pro-  
8                   vides an adequate basis for determining  
9                   that an amended test method would more  
10                  accurately or fully comply with paragraph  
11                  (3).

12                  “(iv) EFFECT ON OTHER REQUIRE-  
13                  MENTS.—The granting of a petition by the  
14                  Secretary under this subparagraph shall  
15                  create no presumption with respect to the  
16                  determination of the Secretary that the  
17                  proposed test procedure meets the require-  
18                  ments of paragraph (3).

19                  “(v) RULEMAKING.—

20                  “(I) IN GENERAL.—Except as  
21                  provided in subclause (II), not later  
22                  than the end of the 18-month period  
23                  beginning on the date of granting a  
24                  petition, the Secretary shall publish  
25                  an amended test method or a deter-

1                   mination not to amend the test meth-  
2                   od.

3                   “(II) EXTENSION.—The Sec-  
4                   retary may extend the period de-  
5                   scribed in subclause (I) for 1 addi-  
6                   tional year.

7                   “(III) DIRECT FINAL RULE.—  
8                   The Secretary may adopt a consensus  
9                   test procedure in accordance with the  
10                  direct final rule procedure established  
11                  under section 325(p)(4).”.

12               (b) CERTAIN INDUSTRIAL EQUIPMENT.—Section 343  
13 of the Energy Policy and Conservation Act (42 U.S.C.  
14 6314) is amended—

15               (1) in subsection (a), by striking paragraph (1)  
16               and inserting the following:

17               “(1) AMENDMENT AND PETITION PROCESS.—

18               “(A) IN GENERAL.—At least once every 7  
19               years, the Secretary shall review test procedures  
20               for all covered equipment and—

21               “(i) publish in the Federal Register  
22               amended test procedures with respect to  
23               any covered equipment, if the Secretary  
24               determines that amended test procedures

1 would more accurately or fully comply with  
2 paragraphs (2) and (3); or

3 “(ii) publish notice in the Federal  
4 Register of any determination not to  
5 amend a test procedure.

6 “(B) PETITIONS.—

7 “(i) IN GENERAL.—In the case of any  
8 class or category of covered equipment,  
9 any person may petition the Secretary to  
10 conduct a rulemaking—

11 “(I) to prescribe a test procedure  
12 for the covered equipment; or

13 “(II) to amend the test proce-  
14 dures applicable to the covered equip-  
15 ment to more accurately or fully com-  
16 ply with paragraphs (2) and (3).

17 “(ii) DETERMINATION.—The Sec-  
18 retary shall—

19 “(I) not later than 90 days after  
20 the date of receipt of the petition,  
21 publish the petition in the Federal  
22 Register; and

23 “(II) not later than 180 days  
24 after the date of receipt of the peti-  
25 tion, grant or deny the petition.

1           “(iii) BASIS.—The Secretary shall  
2 grant a petition if the Secretary finds that  
3 the petition contains evidence that, assum-  
4 ing no other evidence was considered, pro-  
5 vides an adequate basis for determining  
6 that an amended test method would more  
7 accurately promote energy or water use ef-  
8 ficiency.

9           “(iv) EFFECT ON OTHER REQUIRE-  
10 MENTS.—The granting of a petition by the  
11 Secretary under this paragraph shall cre-  
12 ate no presumption with respect to the de-  
13 termination of the Secretary that the pro-  
14 posed test procedure meets the require-  
15 ments of paragraphs (2) and (3).

16           “(v) RULEMAKING.—

17           “(I) IN GENERAL.—Except as  
18 provided in subclause (II), not later  
19 than the end of the 18-month period  
20 beginning on the date of granting a  
21 petition, the Secretary shall publish  
22 an amended test method or a deter-  
23 mination not to amend the test meth-  
24 od.

1                   “(II) EXTENSION.—The Sec-  
2                   retary may extend the period de-  
3                   scribed in subclause (I) for 1 addi-  
4                   tional year.

5                   “(III) DIRECT FINAL RULE.—  
6                   The Secretary may adopt a consensus  
7                   test procedure in accordance with the  
8                   direct final rule procedure established  
9                   under section 325(p).”;

10                   (2) by striking subsection (c); and

11                   (3) by redesignating subsections (d) and (e) as  
12                   subsections (c) and (d), respectively.

13 **SEC. 3. ENERGY STAR PROGRAM.**

14                   (a) DIVISION OF RESPONSIBILITIES.—Section  
15                   324A(b) of the Energy Policy and Conservation Act (42  
16                   U.S.C. 6294a(b)) is amended—

17                   (1) by striking “Responsibilities” and inserting  
18                   the following:

19                   “(1) IN GENERAL.—Responsibilities”; and

20                   (2) by adding at the end the following:

21                   “(2) UPDATE.—Not later than 180 days after  
22                   the date of enactment of this paragraph, the Sec-  
23                   retary and the Administrator shall update the agree-  
24                   ments described in paragraph (1), including agree-  
25                   ments on provisions that provide—

1           “(A) a clear delineation of the roles and  
2 responsibilities of each agency that is based on  
3 the resources and areas of expertise of each  
4 agency;

5           “(B) a formal process for high-level deci-  
6 sionmaking that allows each agency to make  
7 specific programmatic decisions based on the  
8 program approaches of each agency;

9           “(C) a facilitated annual planning meeting  
10 that establishes strategic priorities and goals  
11 for the coming year;

12           “(D) a prescribed course of action to work  
13 through differences and disagreements;

14           “(E) a facilitated biannual program review  
15 conducted by a third-party that—

16           “(i) incorporates an assessment of  
17 program progress, partner acceptance, the  
18 achievement of program goals, and future  
19 strategic planning; and

20           “(ii) is evaluated by the Council on  
21 Environmental Quality, which shall ap-  
22 praise the findings in the review and work  
23 with the agencies to resolve any negative  
24 findings; and



1           “(F) a sunset date for the new agreement  
2           and a timetable for establishing future agree-  
3           ments based on priorities at that time.”.

4           (b) DUTIES.—Section 324A(c) of the Energy Policy  
5 and Conservation Act (42 U.S.C. 6294a(c)) is amended—

6           (1) in paragraph (6), by striking “and” after  
7           the semicolon at the end;

8           (2) in paragraph (7), by striking the period at  
9           the end and inserting a semicolon; and

10          (3) by adding at the end the following:

11          “(8)(A) review each product category—

12           “(i) at least once every 3 years; or

13           “(ii) when market share for an Energy  
14           Star product category reaches 35 percent;

15          “(B) based on the review—

16           “(i) update and publish the Energy Star  
17           product criteria for the category; or

18           “(ii) publish a finding that no update is  
19           justified with the explanation for the finding;  
20           and

21          “(C) during the initial review for each product  
22          category, establish an alternative market share to  
23          trigger subsequent reviews, based on product-specific  
24          technology and market attributes;

1           “(9) require a demonstration of compliance  
2 with the Energy Star criteria by qualified products,  
3 except that—

4           “(A) the demonstration shall be conducted  
5 in accordance with appropriate methods deter-  
6 mined for each product type by the Secretary or  
7 the Administrator of the Environmental Protec-  
8 tion Agency (as appropriate), including—

9           “(i) third-party verification;

10           “(ii) third-party certification;

11           “(iii) purchase and testing of products  
12 from the market; or

13           “(iv) other verified testing and compli-  
14 ance approaches; and

15           “(B) the Secretary or Administrator may  
16 exempt specific types of products from the re-  
17 quirements of this subparagraph if the Sec-  
18 retary or Administrator finds that—

19           “(i) the benefits to the Energy Star  
20 program of verifying product performance  
21 are substantially exceeded by the burdens;  
22 or

23           “(ii) there are no benefits to the En-  
24 ergy Star program; and

1           “(10) develop and publish standardized building  
2           energy audit methods.”.

3           (c) FUNDING.—Section 324A of the Energy Policy  
4           and Conservation Act (42 U.S.C. 6294a) is amended by  
5           adding at the end the following:

6           “(e) AUTHORIZATION OF APPROPRIATIONS.—There  
7           are authorized to be appropriated to carry out this sec-  
8           tion—

9                   “(1) to the Department of Energy \$25,000,000  
10           for each fiscal year; and

11                   “(2) to the Environmental Protection Agency  
12           \$100,000,000 for each fiscal year.”.

13   **SEC. 4. PETITION FOR AMENDED STANDARDS.**

14           Section 325(n) of the Energy Policy and Conserva-  
15           tion Act (42 U.S.C. 6295(n)) is amended—

16                   (1) by redesignating paragraph (3) as para-  
17           graph (5); and

18                   (2) by inserting after paragraph (2) the fol-  
19           lowing:

20                   “(3) NOTICE OF DECISION.—Not later than  
21           180 days after the date of receiving a petition, the  
22           Secretary shall publish in the Federal Register a no-  
23           tice of, and explanation for, the decision of the Sec-  
24           retary to grant or deny the petition.

1           “(4) NEW OR AMENDED STANDARDS.—Not  
2 later than 3 years after the date of granting a peti-  
3 tion for new or amended standards, the Secretary  
4 shall publish in the Federal Register—

5                   “(A) a final rule that contains the new or  
6 amended standards; or

7                   “(B) a determination that no new or  
8 amended standards are necessary.”.

9 **SEC. 5. PORTABLE LIGHT FIXTURES.**

10       (a) DEFINITIONS.—Section 321 of the Energy Policy  
11 and Conservation Act (42 U.S.C. 6291) is amended by  
12 adding at the end the following:

13           “(67) ART WORK LIGHT FIXTURE.—The term  
14 ‘art work light fixture’ means a light fixture de-  
15 signed only to be mounted directly to an art work  
16 and for the purpose of illuminating that art work.

17           “(68) LED LIGHT ENGINE.—The term ‘LED  
18 light engine’ or ‘LED light engine with integral heat  
19 sink’ means a subsystem of an LED light fixture  
20 that—

21                   “(A) includes 1 or more LED components,  
22 including—

23                           “(i) an LED driver power source with  
24 electrical and mechanical interfaces; and

1                   “(ii) an integral heat sink to provide  
2                   thermal dissipation; and

3                   “(B) may be designed to accept additional  
4                   components that provide aesthetic, optical, and  
5                   environmental control.

6                   “(69) LED LIGHT FIXTURE.—The term ‘LED  
7                   light fixture’ means a complete lighting unit con-  
8                   sisting of—

9                   “(A) an LED light source with 1 or more  
10                  LED lamps or LED light engines; and

11                  “(B) parts—

12                   “(i) to distribute the light;

13                   “(ii) to position and protect the light  
14                  source; and

15                   “(iii) to connect the light source to  
16                  electrical power.

17                  “(70) LIGHT FIXTURE.—The term ‘light fix-  
18                  ture’ means a product designed to provide light that  
19                  includes—

20                   “(A) at least 1 lamp socket; and

21                   “(B) parts—

22                   “(i) to distribute the light;

23                   “(ii) position and protect 1 or more  
24                  lamps; and

1                   “(iii) to connect 1 or more lamps to a  
2                   power supply.

3                   “(71) PORTABLE LIGHT FIXTURE.—

4                   “(A) IN GENERAL.—The term ‘portable  
5                   light fixture’ means a light fixture that has a  
6                   flexible cord and an attachment plug for con-  
7                   nection to a nominal 120-volt circuit that—

8                   “(i) allows the user to relocate the  
9                   product without any rewiring; and

10                   “(ii) typically can be controlled with a  
11                   switch located on the product or the power  
12                   cord of the product.

13                   “(B) EXCLUSIONS.—The term ‘portable  
14                   light fixture’ does not include—

15                   “(i) direct plug-in night lights, sun or  
16                   heat lamps, medical or dental lights, port-  
17                   able electric hand lamps, signs or commer-  
18                   cial advertising displays, photographic  
19                   lamps, germicidal lamps, or light fixtures  
20                   for marine use or for use in hazardous lo-  
21                   cations (as those terms are defined in  
22                   ANSI/NFPA 70 of the National Electrical  
23                   Code); or

24                   “(ii) decorative lighting strings, deco-  
25                   rative lighting outfits, or electric candles or

1 candelabra without lamp shades that are  
2 covered by Underwriter Laboratories (UL)  
3 standard 588, ‘Seasonal and Holiday Dec-  
4 orative Products’.”.

5 (b) COVERAGE.—

6 (1) IN GENERAL.—Section 322(a) of the En-  
7 ergy Policy and Conservation Act (42 U.S.C.  
8 6292(a)) is amended—

9 (A) by redesignating paragraph (20) as  
10 paragraph (21); and

11 (B) by inserting after paragraph (19) the  
12 following:

13 “(20) Portable light fixtures.”.

14 (2) CONFORMING AMENDMENTS.—Section  
15 325(l) of the Energy Policy and Conservation Act  
16 (42 U.S.C. 6295(l)) is amended by striking “para-  
17 graph (19)” each place it appears in paragraphs (1)  
18 and (2) and inserting “paragraph (21)”.

19 (c) TEST PROCEDURES.—Section 323(b) of the En-  
20 ergy Policy and Conservation Act (42 U.S.C. 6293(b)) is  
21 amended by adding at the end the following:

22 “(19) LED FIXTURES AND LED LIGHT EN-  
23 GINES.—Test procedures for LED fixtures and LED  
24 light engines shall be based on Illuminating Engi-  
25 neering Society of North America test procedure

1 LM-79, Approved Method for Electrical and Photo-  
2 metric Testing of Solid-State Lighting Devices.”.

3 (d) STANDARDS.—Section 325 of the Energy Policy  
4 and Conservation Act (42 U.S.C. 6295) is amended—

5 (1) by redesignating subsection (ii) as sub-  
6 section (kk); and

7 (2) by inserting after subsection (hh) the fol-  
8 lowing:

9 “(ii) PORTABLE LIGHT FIXTURES.—

10 “(1) IN GENERAL.—Subject to paragraphs (2)  
11 and (3), portable light fixtures manufactured on or  
12 after January 1, 2012, shall meet 1 or more of the  
13 following requirements:

14 “(A) Be a fluorescent light fixture that  
15 meets the requirements of the Energy Star Pro-  
16 gram for Residential Light Fixtures, Version  
17 4.2.

18 “(B) Be equipped with only 1 or more  
19 GU-24 line-voltage sockets and not be rated for  
20 use with incandescent lamps of any type, as de-  
21 fined in ANSI standards.

22 “(C) Be an LED light fixture or a light  
23 fixture with an LED light engine and comply  
24 with the following minimum requirements:



1           “(i) Minimum light output: 200  
2 lumens (initial).

3           “(ii) Minimum LED light engine effi-  
4 cacy: 40 lumens/watt installed in fixtures  
5 that meet the minimum light fixture effi-  
6 cacy of 29 lumens/watt or, alternatively, a  
7 minimum LED light engine efficacy of 60  
8 lumens/watt for fixtures that do not meet  
9 the minimum light fixture efficacy of 29  
10 lumens/watt.

11           “(iii) All portable fixtures shall have a  
12 minimum LED light fixture efficacy of 29  
13 lumens/watt and a minimum LED light  
14 engine efficacy of 60 lumens/watt by Janu-  
15 ary 1, 2016.

16           “(iv) Color Correlated Temperature  
17 (CCT): 2700K through 4200K.

18           “(v) Minimum Color Rendering Index  
19 (CRI): 75.

20           “(vi) Power factor equal to or greater  
21 than 0.70.

22           “(vii) Portable luminaries that have  
23 internal power supplies shall have zero  
24 standby power when the luminaire is  
25 turned off.

1                   “(viii) LED light sources shall deliver  
2                   at least 70 percent of initial lumens for at  
3                   least 25,000 hours.

4                   “(D)(i) Be equipped with an ANSI-des-  
5                   ignated E12, E17, or E26 screw-based socket  
6                   and be prepackaged and sold together with 1  
7                   screw-based compact fluorescent lamp or screw-  
8                   based LED lamp for each screw-based socket  
9                   on the portable light fixture.

10                  “(ii) The compact fluorescent or LED  
11                  lamps prepackaged with the light fixture shall  
12                  be fully compatible with any light fixture con-  
13                  trols incorporated into the light fixture (for ex-  
14                  ample, light fixtures with dimmers shall be  
15                  packed with dimmable lamps).

16                  “(iii) Compact fluorescent lamps pre-  
17                  packaged with light fixtures shall meet the re-  
18                  quirements of the Energy Star Program for  
19                  CFLs Version 4.0.

20                  “(iv) Screw-based LED lamps shall comply  
21                  with the minimum requirements described in  
22                  subparagraph (C).

23                  “(E) Be equipped with 1 or more single-  
24                  ended, non-screw based halogen lamp sockets  
25                  (line or low voltage), a dimmer control or high-

1 low control, and be rated for a maximum of 100  
2 watts.

3 “(2) REVIEW.—

4 “(A) REVIEW.—The Secretary shall review  
5 the criteria and standards established under  
6 paragraph (1) to determine if revised standards  
7 are technologically feasible and economically  
8 justified.

9 “(B) COMPONENTS.—The review shall in-  
10 clude consideration of whether—

11 “(i) a separate compliance procedure  
12 is still needed for halogen fixtures de-  
13 scribed in subparagraph (E) and, if nec-  
14 essary, what an appropriate standard for  
15 halogen fixtures shall be;

16 “(ii) the specific technical criteria de-  
17 scribed in subparagraphs (A), (C), and  
18 (D)(iii) should be modified; and

19 “(iii) certain fixtures should be ex-  
20 empted from the light fixture efficacy  
21 standard as of January 1, 2016, because  
22 the fixtures are primarily decorative in na-  
23 ture (as defined by the Secretary) and,  
24 even if exempted, are likely to be sold in  
25 limited quantities.

1 “(C) TIMING.—

2 “(i) DETERMINATION.—Not later  
3 than January 1, 2014, the Secretary shall  
4 publish amended standards, or a deter-  
5 mination that no amended standards are  
6 justified, under this subsection.

7 “(ii) STANDARDS.—Any standards  
8 under this subsection take effect on Janu-  
9 ary 1, 2016.

10 “(3) ART WORK LIGHT FIXTURES.—Art work  
11 light fixtures manufactured on or after January 1,  
12 2012, shall—

13 “(A) comply with paragraph (1); or

14 “(B)(i) contain only ANSI-designated E12  
15 screw-based line-voltage sockets;

16 “(ii) have not more than 3 sockets;

17 “(iii) be controlled with an integral high/  
18 low switch;

19 “(iv) be rated for not more than 25 watts  
20 if fitted with 1 socket; and

21 “(v) be rated for not more than 15 watts  
22 per socket if fitted with 2 or 3 sockets.

23 “(4) EXCEPTION FROM PREEMPTION.—Not-  
24 withstanding section 327, Federal preemption shall  
25 not apply to a regulation concerning portable light

1 fixtures adopted by the California Energy Commis-  
2 sion on or before January 1, 2014.”.

3 **SEC. 6. GU-24 BASE LAMPS.**

4 (a) DEFINITIONS.—Section 321 of the Energy Policy  
5 and Conservation Act (42 U.S.C. 6291) (as amended by  
6 section 5(a)) is amended by adding at the end the fol-  
7 lowing:

8 “(72) GU-24.—The term ‘GU-24’” means the  
9 designation of a lamp socket, based on a coding sys-  
10 tem by the International Electrotechnical Commis-  
11 sion, under which—

12 “(A) ‘G’ indicates a holder and socket type  
13 with 2 or more projecting contacts, such as pins  
14 or posts;

15 “(B) ‘U’ distinguishes between lamp and  
16 holder designs of similar type that are not  
17 interchangeable due to electrical or mechanical  
18 requirements; and

19 “(C) 24 indicates the distance in millime-  
20 ters between the electrical contact posts.

21 “(73) GU-24 ADAPTOR.—

22 “(A) IN GENERAL.—The term ‘GU-24  
23 Adaptor’ means a 1-piece device, pig-tail, wiring  
24 harness, or other such socket or base attach-  
25 ment that—

1                   “(i) connects to a GU-24 socket on 1  
2                   end and provides a different type of socket  
3                   or connection on the other end; and

4                   “(ii) does not alter the voltage.

5                   “(B) EXCLUSION.—The term ‘GU-24  
6                   Adaptor’ does not include a fluorescent ballast  
7                   with a GU-24 base.

8                   “(74) GU-24 BASE LAMP.—‘GU-24 base lamp’  
9                   means a light bulb designed to fit in a GU-24 sock-  
10                  et.”.

11                  (b) STANDARDS.—Section 325 of the Energy Policy  
12                  and Conservation Act (42 U.S.C. 6295) (as amended by  
13                  section 5(d)) is amended by inserting after subsection (ii)  
14                  the following:

15                  “(jj) GU-24 BASE LAMPS.—

16                         “(1) IN GENERAL.—A GU-24 base lamp shall  
17                         not be an incandescent lamp as defined by ANSI.

18                         “(2) GU-24 ADAPTORS.—GU-24 adaptors shall  
19                         not adapt a GU-24 socket to any other line voltage  
20                         socket.”.

21                  **SEC. 7. STUDY OF COMPLIANCE WITH ENERGY STANDARDS**

22                                 **FOR APPLIANCES.**

23                  (a) IN GENERAL.—The Secretary of Energy shall  
24                  conduct a study of the degree of compliance with energy  
25                  standards for appliances, including an investigation of

1 compliance rates and options for improving compliance,  
2 including enforcement.

3 (b) REPORT.—Not later than 18 months after the  
4 date of enactment of this Act, the Secretary shall submit  
5 to the appropriate committees of Congress a report de-  
6 scribing the results of the study, including any rec-  
7 ommendations.

8 **SEC. 8. STUDY OF DIRECT CURRENT ELECTRICITY SUPPLY**  
9 **IN CERTAIN BUILDINGS.**

10 (a) IN GENERAL.—The Secretary of Energy shall  
11 conduct a study—

12 (1) of the costs and benefits (including signifi-  
13 cant energy efficiency, power quality, and other  
14 power grid, safety, and environmental benefits) of  
15 requiring high-quality, direct current electricity sup-  
16 ply in certain buildings; and

17 (2) to determine, if the requirement described  
18 in paragraph (1) is imposed, what the policy and  
19 role of the Federal Government should be in real-  
20 izing those benefits.

21 (b) REPORT.—Not later than 1 year after the date  
22 of enactment of this Act, the Secretary shall submit to  
23 the appropriate committees of Congress a report describ-  
24 ing the results of the study, including any recommenda-  
25 tions.

1 **SEC. 9. MOTOR MARKET ASSESSMENT AND COMMERCIAL**  
2 **AWARENESS PROGRAM.**

3 (a) FINDINGS.—Congress finds that—

4 (1) electric motor systems account for about  
5 half of the electricity used in the United States;

6 (2) electric motor energy use is determined by  
7 both the efficiency of the motor and the system in  
8 which the motor operates;

9 (3) Federal Government research on motor end  
10 use and efficiency opportunities is more than a dec-  
11 ade old; and

12 (4) the Census Bureau has discontinued collec-  
13 tion of data on motor and generator importation,  
14 manufacture, shipment, and sales.

15 (b) DEFINITIONS.—In this section:

16 (1) DEPARTMENT.—The term “Department”  
17 means the Department of Energy.

18 (2) INTERESTED PARTIES.—The term “inter-  
19 ested parties” includes—

20 (A) trade associations;

21 (B) motor manufacturers;

22 (C) motor end users;

23 (D) electric utilities; and

24 (E) individuals and entities that conduct  
25 energy efficiency programs.



1           (3) SECRETARY.—The term “Secretary” means  
2           the Secretary of Energy, in consultation with inter-  
3           ested parties.

4           (c) ASSESSMENT.—The Secretary shall conduct an  
5           assessment of electric motors and the electric motor mar-  
6           ket in the United States that shall—

7           (1) include important subsectors of the indus-  
8           trial and commercial electric motor market (as de-  
9           termined by the Secretary), including—

10           (A) the stock of motors and motor-driven  
11           equipment;

12           (B) efficiency categories of the motor pop-  
13           ulation; and

14           (C) motor systems that use drives, servos,  
15           and other control technologies;

16           (2) characterize and estimate the opportunities  
17           for improvement in the energy efficiency of motor  
18           systems by market segment, including opportunities  
19           for—

20           (A) expanded use of drives, servos, and  
21           other control technologies;

22           (B) expanded use of process control,  
23           pumps, compressors, fans or blowers, and mate-  
24           rial handling components; and

1 (C) substitution of existing motor designs  
2 with existing and future advanced motor de-  
3 signs, including electronically commutated per-  
4 manent magnet, interior permanent magnet,  
5 and switched reluctance motors; and

6 (3) develop an updated profile of motor system  
7 purchase and maintenance practices, including sur-  
8 veying the number of companies that have motor  
9 purchase and repair specifications, by company size,  
10 number of employees, and sales.

11 (d) RECOMMENDATIONS; UPDATE.—Based on the as-  
12 sessment conducted under subsection (c), the Secretary  
13 shall—

14 (1) develop—

15 (A) recommendations to update the de-  
16 tailed motor profile on a periodic basis;

17 (B) methods to estimate the energy sav-  
18 ings and market penetration that is attributable  
19 to the Save Energy Now Program of the De-  
20 partment; and

21 (C) recommendations for the Director of  
22 the Census Bureau on market surveys that  
23 should be undertaken in support of the motor  
24 system activities of the Department; and

1           (2) prepare an update to the Motor Master+  
2           program of the Department.

3           (e) PROGRAM.—Based on the assessment, rec-  
4           ommendations, and update required under subsections (c)  
5           and (d), the Secretary shall establish a proactive, national  
6           program targeted at motor end-users and delivered in co-  
7           operation with interested parties to increase awareness  
8           of—

9           (1) the energy and cost-saving opportunities in  
10          commercial and industrial facilities using higher effi-  
11          ciency electric motors;

12          (2) improvements in motor system procurement  
13          and management procedures in the selection of high-  
14          er efficiency electric motors and motor-system com-  
15          ponents, including drives, controls, and driven equip-  
16          ment; and

17          (3) criteria for making decisions for new, re-  
18          placement, or repair motor and motor system com-  
19          ponents.

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