

111TH CONGRESS
1ST SESSION

S. 598

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

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

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.

○