

109<sup>TH</sup> CONGRESS  
1<sup>ST</sup> SESSION

# H. R. 955

To amend the Clean Air Act to establish an inventory, registry, and information system of United States greenhouse gas emissions to inform the public and private sectors concerning, and encourage voluntary reductions in, greenhouse gas emissions, and for other purposes.

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## IN THE HOUSE OF REPRESENTATIVES

FEBRUARY 17, 2005

Mr. OLVER (for himself and Mr. GILCREST) introduced the following bill;  
which was referred to the Committee on Energy and Commerce

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## A BILL

To amend the Clean Air Act to establish an inventory, registry, and information system of United States greenhouse gas emissions to inform the public and private sectors concerning, and encourage voluntary reductions in, greenhouse gas emissions, 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.**

4       This Act may be cited as the “National Greenhouse  
5       Gas Emissions Inventory Act of 2005”.

6       **SEC. 2. FINDINGS AND PURPOSE.**

7       (a) FINDINGS.—Congress finds the following:

1           (1) Human activities have caused rapid in-  
2           creases in atmospheric concentrations of carbon di-  
3           oxide and other greenhouse gases in the last century.

4           (2) According to the Intergovernmental Panel  
5           on Climate Change and the National Research  
6           Council—

7                   (A) the Earth has warmed in the last cen-  
8                   tury; and

9                   (B) the majority of the observed warming  
10                  is attributable to human activities, including  
11                  fossil fuel-generated carbon dioxide emissions.

12           (3) Despite the fact that many uncertainties in  
13           climate science remain, the potential impacts from  
14           human-induced climate change pose a substantial  
15           risk that should be managed in a responsible man-  
16           ner.

17           (4) To begin to manage climate change risks,  
18           public and private entities will need a comprehen-  
19           sive, accurate inventory, registry, and information  
20           system of the sources and quantities of United  
21           States greenhouse gas emissions.

22           (5) Assurances that early action to reduce  
23           greenhouse gases will not be penalized in any future  
24           emission reduction program would encourage more

1 companies and other entities to make investments to  
2 reduce those emissions.

3 (6) The United States has ratified the  
4 UNFCCC (United Nations Framework Convention  
5 on Climate Change), which states, in part, “the Par-  
6 ties to the Convention are to implement policies with  
7 the aim of returning to their 1990 levels anthropo-  
8 genic emissions of carbon dioxide and other green-  
9 house gases.

10 (7) According to the Department of Energy’s  
11 Energy Information Administration, United States  
12 anthropogenic greenhouse gas emissions increased  
13 by 13.4 percent between 1990 and 2003.

14 (8) Global climate change poses a significant  
15 threat to national security, the American economy,  
16 public health and welfare, and the global environ-  
17 ment.

18 (b) PURPOSE.—The purpose of this Act is to estab-  
19 lish a mandatory greenhouse gas inventory, registry, and  
20 information system that—

21 (1) is complete, consistent, transparent, and ac-  
22 curate;

23 (2) will create accurate data that can be used  
24 by public and private entities to design efficient and

1 effective greenhouse gas emission reduction strate-  
2 gies;

3 (3) will encourage greenhouse gas emission re-  
4 ductions; and

5 (4) will avoid penalizing early action to reduce  
6 emissions by providing assurances that any future  
7 emission reduction program—

8 (A) will not assign emissions control re-  
9 sponsibility by reference to an entity’s emissions  
10 during a baseline period; or

11 (B) if a baseline period is used will not use  
12 a period ending later than the first year for  
13 which emissions reporting is required under this  
14 Act.

15 **SEC. 3. GREENHOUSE GAS EMISSIONS.**

16 The Clean Air Act (42 U.S.C. 1701 et seq.) is amend-  
17 ed by adding at the end the following:

18 **“TITLE VII—GREENHOUSE GAS**  
19 **EMISSIONS**

“Sec. 701. Definitions.

“Sec. 702. National greenhouse gas emissions information system.

“Sec. 703. Reporting.

“Sec. 704. National greenhouse gas emissions inventory.

“Sec. 705. Regulations.

20 **“SEC. 701. DEFINITIONS.**

21 “In this title:

22 “(1) **CARBON DIOXIDE EQUIVALENT.**—The  
23 term ‘carbon dioxide equivalent’ means, for each

1 greenhouse gas, the amount of each such greenhouse  
2 gas that makes the same contribution to global  
3 warming as one metric ton of carbon dioxide.

4 “(2) DIRECT EMISSIONS.—The term ‘direct  
5 emissions’ means greenhouse gas emissions from  
6 sources that are owned or controlled by the report-  
7 ing entity

8 “(3) DOE LISTED PRODUCT.—The term ‘DOE  
9 listed product’ means a product for which the Sec-  
10 retary of Energy has published a final rule estab-  
11 lishing a standard for energy conservation, energy  
12 efficiency, maximum energy use, thermal efficiency,  
13 fuel utilization efficiency, or energy consumption, or  
14 any similar standard, including standards authorized  
15 under section 325 of the Energy Policy and Con-  
16 servation Act of 1975 (42 U.S.C. 6295).

17 “(4) EMISSIONS.—The term ‘emissions’ in-  
18 cludes any of the following:

19 “(A) Stationary combustion source emis-  
20 sions, which are emitted as a result of combus-  
21 tion of fuels in stationary equipment such as  
22 boilers, furnaces, burners, turbines, heaters, in-  
23 cinerators, engines, flares, and other similar  
24 sources.

1           “(B) Process emissions, which consist of  
2           emissions from chemical or physical processes  
3           other than combustion.

4           “(C) Fugitive emissions, which consist of  
5           intentional and unintentional emissions from  
6           equipment leaks such as joints, seals, packing,  
7           and gaskets, or from piles, pits, cooling towers,  
8           and other similar sources.

9           “(D) Mobile source emissions, which are  
10          emitted as a result of combustion of fuels in  
11          transportation equipment such as automobiles,  
12          trucks, trains, airplanes, and vessels.

13          “(5) ENTITY.—The term ‘entity’ means a per-  
14          son (including a firm, a corporation, an association,  
15          a partnership, a Federal, state, or local govern-  
16          mental agency or any other public or private entity)  
17          located in or operating in the United States.

18          “(6) FACILITY.—The term ‘facility’ means all  
19          sources located on any one or more of contiguous or  
20          adjacent property or properties under common own-  
21          ership or control of the same entity.

22          “(7) GREENHOUSE GAS.—The term ‘greenhouse  
23          gas’ means—

24                  “(A) carbon dioxide;

25                  “(B) methane;

1 “(C) nitrous oxide;

2 “(D) hydrofluorocarbons;

3 “(E) perfluorocarbons;

4 “(F) sulfur hexafluoride; and

5 “(G) any other chemical or physical sub-  
6 stance not controlled under title VI of this Act  
7 which is emitted into the air and which the Ad-  
8 ministrator determines, by rule, may reasonably  
9 be anticipated to cause or contribute to global  
10 warming.

11 “(8) GREENHOUSE GAS EMISSIONS.—The term  
12 ‘greenhouse gas emissions’ means emissions of a  
13 greenhouse gas from any source located in the  
14 United States.

15 “(9) GREENHOUSE GAS EMISSIONS RECORD.—  
16 The term ‘greenhouse gas emissions record’ means  
17 all of the greenhouse gas reports submitted by an  
18 entity under this title, including any adjustments to  
19 such data under section 703(c).

20 “(10) GREENHOUSE GAS REPORT.—The term  
21 ‘greenhouse gas report’ means an annual list of—

22 “(A) the direct greenhouse gas emissions  
23 of a reporting entity,

24 “(B) the indirect greenhouse gas emissions  
25 of a reporting entity,

1           “(C) greenhouse gas emissions from prod-  
2           ucts manufactured or imported by the reporting  
3           entity,

4           “(D) emissions of greenhouse gases manu-  
5           factured or imported by the reporting entity,  
6           and

7           “(E) greenhouse gas emissions from the  
8           combustion of fossil fuels distributed by the re-  
9           porting entity

10          and the sources of those emissions.

11          “(11) INDIRECT EMISSIONS.—The term ‘indi-  
12          rect emissions’ means greenhouse gas emissions—

13               “(A) associated with the production of  
14               electricity, heat, or steam acquired or purchased  
15               by the reporting entity, and

16               “(B) that are the consequence of activities  
17               of reporting entity but are emitted by sources  
18               owned or controlled by an entity other than the  
19               reporting entity.

20          “(12) NATIONAL GREENHOUSE GAS EMISSIONS  
21          INFORMATION SYSTEM.—The term ‘national green-  
22          house gas emissions information system’ means the  
23          information system established under section 702(a).

24          “(13) NATIONAL GREENHOUSE GAS EMISSIONS  
25          INVENTORY.—The term ‘national greenhouse gas



1 emissions inventory’ means the national inventory of  
2 greenhouse gas emissions established under section  
3 704.

4 “(14) PROJECT REDUCTION.—The term  
5 ‘project reduction’ means—

6 “(A) a greenhouse gas emission reduction  
7 achieved by carrying out a greenhouse gas  
8 emission reduction project in the United States,  
9 provided that the emissions reduction did not  
10 occur at a source included in the greenhouse  
11 gas report of any reporting entity; and

12 “(B) sequestration achieved by carrying  
13 out a sequestration project in the United  
14 States, provided that the sequestration did not  
15 occur at a site included in the greenhouse gas  
16 report of any reporting entity.

17 “(15) REPORTING ENTITY.—The term ‘report-  
18 ing entity’ means an entity that reports to the Ad-  
19 ministrator under section 703.

20 “(16) SEQUESTRATION.—The term ‘sequestra-  
21 tion’ means the capture, long-term separation, isola-  
22 tion, or removal of greenhouse gases from the at-  
23 mosphere, including through a biological or geologic  
24 method such as reforestation or an underground res-  
25 ervoir.

1           “(17) SOURCE.—The term ‘source’ means any  
2 building, structure, installation, unit, point, oper-  
3 ation, vehicle, land area, or other item that emits or  
4 may emit a greenhouse gas.

5           “(18) VERIFICATION.—The term ‘verification’  
6 means the objective and independent assessment of  
7 whether a greenhouse gas report submitted by a re-  
8 porting entity accurately reflects the greenhouse gas  
9 impact of the reporting entity.

10 **“SEC. 702. NATIONAL GREENHOUSE GAS EMISSIONS INFOR-**  
11 **MATION SYSTEM.**

12           “(a) ESTABLISHMENT.—In consultation with the  
13 Secretary of Commerce, the Secretary of Agriculture, the  
14 Secretary of Energy, States, the private sector, and non-  
15 governmental organizations concerned with establishing  
16 standards for reporting of greenhouse gas emissions, the  
17 Administrator shall establish and administer a national  
18 greenhouse gas emissions information system to collect in-  
19 formation reported under section 703(a), including a na-  
20 tional greenhouse gas reduction registry to collect infor-  
21 mation reported under section 703(a)(7).

22           “(b) SUBMISSION TO CONGRESS OF DRAFT DE-  
23 SIGN.—Not later than 180 days after the date of enact-  
24 ment of this title, the Administrator shall submit to Con-

1 gress a draft design of the national greenhouse gas emis-  
2 sions information system.

3       “(c) AVAILABILITY OF DATA TO THE PUBLIC.—The  
4 Administrator shall publish all information in the national  
5 greenhouse gas emissions information system through the  
6 website of the Environmental Protection Agency, except  
7 in any case in which publishing the information would dis-  
8 close information vital to national security. Emission data,  
9 including data relating to project reductions, shall have  
10 the same meaning as in section 114 of title I of this Act  
11 and regulations promulgated thereunder prior to the date  
12 of enactment of this title.

13       “(d) RELATIONSHIP TO OTHER GREENHOUSE GAS  
14 DATABASES.—To the extent practicable, the Adminis-  
15 trator shall ensure coordination between the national  
16 greenhouse gas emissions information system and existing  
17 and developing Federal and State greenhouse gas data-  
18 bases and registries. Nothing in this title shall alter any  
19 existing requirements for reporting of greenhouse gas  
20 emissions data or other data relevant to calculating such  
21 emissions.

22       “(e) INTEGRATION WITH OTHER ENVIRONMENTAL  
23 INFORMATION.—To the extent practicable, the Adminis-  
24 trator shall integrate information in the national green-

1 house gas emissions information system with other envi-  
2 ronmental information managed by the Administrator.

3 **“SEC. 703. REPORTING.**

4 “(a) MANDATORY REPORTING OF GREENHOUSE GAS  
5 EMISSIONS.—

6 “(1) IN GENERAL.—Not later than April 30 of  
7 each year after the date of enactment of this title,  
8 in accordance with this paragraph and the regula-  
9 tions promulgated under section 705, each entity  
10 that exceeds the threshold for reporting in para-  
11 graph (2) shall submit to the Administrator, for in-  
12 clusion in the national greenhouse gas emissions in-  
13 formation system, the greenhouse gas report of the  
14 entity with respect to the preceding calendar year.  
15 Once an entity has exceeded the threshold for re-  
16 porting, it shall continue to submit reports for sub-  
17 sequent years.

18 “(2) THRESHOLD FOR REPORTING.—(A) An  
19 entity shall submit a report under paragraph (1) for  
20 greenhouse gas emissions if in the relevant calendar  
21 year—

22 “(i) one of the following exceeds 10,000  
23 metric tons of carbon dioxide equivalent:

24 “(I) The total direct emissions of the  
25 entity.

1                   “(II) The total indirect emissions of  
2                   the reporting entity.

3                   “(III) The total emissions from the  
4                   combustion of fossil fuels distributed by  
5                   the entity.

6                   “(IV) The total quantity of green-  
7                   house gases manufactured or imported by  
8                   the reporting entity, or

9                   “(ii) the entity either—

10                   “(I) is a major industrial manufac-  
11                   turer or importer of motor vehicles, or

12                   “(II) manufactures or imports DOE  
13                   listed products.

14                   “(B) Farms shall not be required to submit re-  
15                   ports under this section.

16                   “(C) An entity that owns more than 250,000  
17                   acres of timberland shall report on the carbon stock  
18                   of such land as provided in paragraph (4)(E) of this  
19                   subsection.

20 The Administrator may adjust the 10,000 metric ton  
21 threshold set forth in this paragraph to a higher threshold  
22 if the Administrator determines that the reports under  
23 this paragraph at such higher threshold will include at  
24 least 90 percent of greenhouse gas emissions.

25                   “(3) REQUIRED ELEMENTS.—

1           “(A) SEPARATE REPORTING.—Each green-  
2 house gas report submitted under paragraph  
3 (1) shall include and separately quantify each  
4 of the following:

5                   “(i) All direct emissions of greenhouse  
6 gases.

7                   “(ii) All indirect emissions of green-  
8 house gases.

9                   “(iii) All emissions of greenhouse  
10 gases from motor vehicles manufactured or  
11 imported by the entity.

12                   “(iv) All emissions of greenhouse  
13 gases from DOE listed products manufac-  
14 tured or imported by the reporting entity.

15                   “(v) All emissions of greenhouse gases  
16 from the combustion of fossil fuels distrib-  
17 uted by the entity.

18                   “(vi) All emissions of greenhouse  
19 gases manufactured or imported by the re-  
20 porting entity.

21           “(B) OTHER REPORTING REQUIRE-  
22 MENTS.—Each greenhouse gas report under  
23 paragraph (1)—

24                   “(i) shall express greenhouse gas  
25 emissions in metric tons of each such

1 greenhouse gas and in metric tons of the  
2 carbon dioxide equivalent of each green-  
3 house gas;

4 “(ii) shall be reported on an entity  
5 wide basis and on a facility wide basis;

6 “(iii) shall specify the sources of di-  
7 rect emissions at each facility included in  
8 the greenhouse gas report;

9 “(iv) in the case of a reporting entity  
10 that owns more than 250,000 acres of  
11 timberland, shall include estimates, by  
12 State, of the timber and carbon stocks of  
13 such land, which estimates shall be up-  
14 dated at least every 5 years; and

15 “(v) to the maximum extent prac-  
16 ticable, shall be reported electronically to  
17 the Administrator in such form as the Ad-  
18 ministrator may require.

19 “(4) METHOD OF REPORTING OF ENTITY WIDE  
20 EMISSIONS, PRODUCTION, OR IMPORTATION.—Under  
21 paragraph (1)(C), entity wide emissions, production,  
22 or importation of greenhouse gases shall be reported  
23 on the bases of financial control and equity share in  
24 a manner consistent with the financial reporting  
25 practices of the entity. If ownership or control of a

1 facility (or portion thereof) whose emissions were in-  
2 cluded in a prior report under this section is trans-  
3 ferred to another entity, then any entity subse-  
4 quently having ownership or control of such facility  
5 shall submit a greenhouse gas report regarding the  
6 transferred facility, even if such entity does not oth-  
7 erwise exceed the threshold for reporting under  
8 paragraph (2).

9 “(5) VOLUNTARY REPORTING OF EARLIER  
10 EMISSIONS.—Any entity may submit to the Adminis-  
11 trator, for inclusion in the national greenhouse gas  
12 emissions information system, a greenhouse gas re-  
13 port for the entity with respect to one or more years  
14 prior to 2005, provided that such report substan-  
15 tially meets the data quality requirements for re-  
16 ports required for 2005 and thereafter.

17 “(6) VOLUNTARY REPORTING BY OTHER ENTI-  
18 TIES.—Any entity that does not exceed the threshold  
19 for reporting under paragraph (2) may elect to sub-  
20 mit a greenhouse gas report under paragraph (1).  
21 Such an entity shall be a reporting entity from that  
22 time forward.

23 “(7) VOLUNTARY REPORTING OF PROJECT RE-  
24 DUCTIONS.—Any entity may voluntarily submit to  
25 the Administrator, for inclusion in a registry main-



1       tained within the national greenhouse gas informa-  
2       tion system, a report with respect to the preceding  
3       calendar year on any project reductions, provided  
4       that the emissions or sequestrations associated with  
5       such project reductions are not included in the  
6       greenhouse gas emissions report submitted to the  
7       Administrator by any reporting entity. The reporting  
8       entity shall demonstrate that the project and its re-  
9       ported reductions or sequestrations would not have  
10      occurred anyway in the business-as-usual case, and  
11      shall account for any changes in emissions outside  
12      boundaries of the project. Each report shall provide  
13      such further information on the emission reduction  
14      or carbon sequestration project as required by regu-  
15      lations promulgated by the Administrator under sec-  
16      tion 705(e). If the project reductions are associated  
17      with a farm or forestland owned or operated by an  
18      entity, the entity shall account for all emissions and  
19      reductions on all farmland or forestland under own-  
20      ership or control of the entity.

21           “(8) VOLUNTARY REPORTING OF OTHER INDI-  
22      RECT PRODUCT EMISSIONS.—Any entity may volun-  
23      tarily submit to the Administrator, for inclusion in  
24      a registry maintained within the national greenhouse  
25      gas information system, a report with respect to any

1 calendar year on indirect emissions from any prod-  
2 uct manufactured by that entity for which a report  
3 is not required under clause (iii) of subsection  
4 (a)(3)(A).

5 “(b) ADJUSTMENT FACTORS.—

6 “(1) CALCULATION CHANGES AND ERRORS.—

7 The greenhouse gas emissions record of a reporting  
8 entity for preceding years shall be adjusted for—

9 “(A) changes in calculation methodologies;

10 or

11 “(B) errors that significantly affect the  
12 quantity of greenhouse gases in the greenhouse  
13 gas emissions record.

14 “(2) EXPLANATIONS OF ADJUSTMENTS.—A re-

15 porting entity shall explain, in a statement included  
16 in the greenhouse gas report of the reporting entity  
17 for a year—

18 “(A) any significant adjustment in the  
19 greenhouse gas emissions record of the report-  
20 ing entity; and

21 “(B) any significant change between the  
22 greenhouse gas emissions record for the pre-  
23 ceding year and the greenhouse gas emissions  
24 reported for the current year.

1       “(c) QUANTIFICATION AND VERIFICATION PROTO-  
2 COLS AND TOOLS.—

3               “(1) IN GENERAL.—The Administrator, and the  
4 Secretary of Commerce, the Secretary of Agri-  
5 culture, and the Secretary of Energy shall jointly  
6 work with the States, the private sector, and non-  
7 governmental organizations to develop—

8                       “(A) protocols for quantification and  
9 verification of greenhouse gas emissions;

10                      “(B) electronic methods for quantification  
11 and reporting of greenhouse gas emissions, in-  
12 cluding a mechanism by which a reporting enti-  
13 ty may, at its option, electronically transfer in-  
14 formation from its data system to the national  
15 greenhouse gas emissions information system;  
16 and

17                      “(C) greenhouse gas accounting and re-  
18 porting standards.

19               “(2) BEST PRACTICES.—The protocols and  
20 methods developed under paragraph (1) shall con-  
21 form, to the maximum extent practicable, to the best  
22 practice protocols that have the greatest support of  
23 experts in the field.

24               “(3) INCORPORATION INTO REGULATIONS.—  
25 The Administrator shall incorporate the protocols

1 developed under paragraph (1)(A) into the regula-  
2 tions promulgated under subsections (c), (d), and (e)  
3 of section 705.

4 “(4) OUTREACH PROGRAM.—The Adminis-  
5 trator, the Secretary of Commerce, the Secretary of  
6 Agriculture, and the Secretary of Energy shall joint-  
7 ly conduct an outreach program to provide informa-  
8 tion to all reporting entities and the public on the  
9 protocols and methods developed under this sub-  
10 section.

11 “(d) VERIFICATION.—

12 “(1) PROVISION OF INFORMATION BY REPORT-  
13 ING ENTITIES.—Each reporting entity shall provide  
14 information sufficient for the Administrator to  
15 verify, in accordance with greenhouse gas accounting  
16 and reporting standards developed under subsection  
17 (c)(1)(C), that the greenhouse gas report of the re-  
18 porting entity has been accurately reported.

19 “(2) INDEPENDENT THIRD-PARTY  
20 VERIFICATION.—A reporting entity may—

21 “(A) obtain independent third-party  
22 verification; and

23 “(B) present the results of the third-party  
24 verification to the Administrator for consider-

1           ation by the Administrator in carrying out  
2           paragraph (1).

3           “(3) CERTIFICATION OF REPORTS.—Each re-  
4           port submitted by a reporting entity shall include an  
5           appropriate certification, signed by a senior official  
6           with management responsibility for the person or  
7           persons completing the report, regarding the accu-  
8           racy and completeness of the report.

9           “(e) ENFORCEMENT.—The Administrator may bring  
10          a civil action in United States district court against an  
11          entity that fails to comply with a requirement of this sec-  
12          tion, or a regulation promulgated under section 705, to  
13          impose a civil penalty of not more than \$25,000 for each  
14          day that the failure to comply continues.

15       **“SEC. 704. NATIONAL GREENHOUSE GAS EMISSIONS INVEN-**  
16   **TORY.**

17           “(a) IN GENERAL.—Not later than April 30 of each  
18          year after the date of enactment of this title, the Adminis-  
19          trator shall publish a national greenhouse gas emissions  
20          inventory that includes—

21                   “(1) comprehensive estimates of the quantity of  
22                   United States greenhouse gas emissions for the sec-  
23                   ond preceding calendar year, including—

1           “(A) for each greenhouse gas, an estimate  
2           of the quantity of emissions contributed by each  
3           key source category;

4           “(B) a detailed analysis of trends in the  
5           quantity, composition, and sources of United  
6           States greenhouse gas emissions; and

7           “(C) a detailed explanation of the method-  
8           ology used in developing the national green-  
9           house gas emissions inventory; and

10          “(2) a detailed analysis of the information re-  
11         ported to the national greenhouse gas emissions in-  
12         formation system and the national greenhouse gas  
13         registry.

14         If total direct emissions reported in a given year are re-  
15         duced in comparison with the amount reported in the pre-  
16         ceding year, the analysis referred to in paragraph (2) shall  
17         include a detailed assessment of what proportion of such  
18         reduction is a consequence of activities by entities that re-  
19         ported reductions in indirect emissions.

20          “(b) ENERGY STAR COMPARISONS.—The Adminis-  
21         trator shall include in the analysis under subsection (a)(2)  
22         a comparison of the indirect emissions associated with  
23         each manufactured product for which a report is required  
24         under clause (iii) of section 703(a)(3)(A) and the indirect

1 emissions of comparable products entitled to the Adminis-  
2 trator’s Energy Star label.

3 **“SEC. 705. REGULATIONS.**

4 “(a) IN GENERAL.—The Administrator may promul-  
5 gate such regulations as are necessary to carry out this  
6 title.

7 “(b) BEST PRACTICES.—In developing regulations  
8 under this section, the Administrator shall seek to leverage  
9 leading protocols for the measurement, accounting, report-  
10 ing, and verification of greenhouse gas emissions.

11 “(c) NATIONAL GREENHOUSE GAS EMISSIONS IN-  
12 FORMATION SYSTEM.—Not later than one year after the  
13 date of enactment of this title, the Administrator shall  
14 promulgate such regulations as are necessary to establish  
15 the national greenhouse gas emissions information system.

16 “(d) MANDATORY REPORTING REQUIREMENTS.—  
17 Not later than one year after the date of enactment of  
18 this title, the Administrator shall promulgate such regula-  
19 tions as are necessary to implement the mandatory report-  
20 ing requirements under section 703(a)(1).

21 “(e) VOLUNTARY REPORTING PROVISIONS.—Not  
22 later than two years after the date of enactment of this  
23 title, the Administrator shall promulgate such regulations  
24 and issue such guidance as are necessary to implement

1 the voluntary reporting provisions under paragraphs (5)  
2 through (7) of section 703(a).

3 “(f) ADJUSTMENT FACTORS.—Not later than two  
4 years after the date of enactment of this title, the Admin-  
5 istrator shall promulgate such regulations as are necessary  
6 to implement the adjustment factors under section  
7 703(b).”.

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