

**(2) Administration**

The Secretary shall, in consultation with the Secretary of Transportation and the Administrator, establish requirements for applications for grants under this section, including reporting of data to be summarized for dissemination to grantees and the public, including safety, vehicle, and component performance, and vehicle and component life cycle costs.

**(3) Priority**

In making awards under this subsection, the Secretary shall—

(A) give priority consideration to applications that—

(i) encourage early widespread use of vehicles described in paragraph (1); and

(ii) are likely to make a significant contribution to the advancement of the production of the vehicles in the United States; and

(B) ensure, to the maximum extent practicable, that the program established under this subsection includes a variety of applications, manufacturers, and end-uses.

**(4) Reporting**

The Secretary shall require a grant recipient under this subsection to submit to the Secretary, on an annual basis, data relating to safety, vehicle performance, life cycle costs, and emissions of vehicles demonstrated under the grant, including emissions of greenhouse gases.

**(5) Cost sharing**

Section 16352 of this title shall apply to a grant made under this subsection.

**(6) Authorization of appropriations**

There is authorized to be appropriated to carry out this subsection \$90,000,000 for each of fiscal years 2008 through 2012, of which not less than  $\frac{1}{3}$  of the total amount appropriated shall be available each fiscal year to make grants to local and municipal governments.

**(c) Near-term transportation sector electrification program****(1) In general**

Not later than 1 year after December 19, 2007, the Secretary, in consultation with the Secretary of Transportation and the Administrator, shall establish a program to provide grants for the conduct of qualified electric transportation projects.

**(2) Priority**

In providing grants under this subsection, the Secretary shall give priority to large-scale projects and large-scale aggregators of projects.

**(3) Cost sharing**

Section 16352 of this title shall apply to a grant made under this subsection.

**(4) Authorization of appropriations**

There is authorized to be appropriated to carry out this subsection \$95,000,000 for each of fiscal years 2008 through 2013.

**(d) Education program****(1) In general**

The Secretary shall develop a nationwide electric drive transportation technology education program under which the Secretary shall provide—

(A) teaching materials to secondary schools and high schools; and

(B) assistance for programs relating to electric drive system and component engineering to institutions of higher education.

**(2) Electric vehicle competition**

The program established under paragraph (1) shall include a plug-in hybrid electric vehicle competition for institutions of higher education, which shall be known as the “Dr. Andrew Frank Plug-In Electric Vehicle Competition”.

**(3) Engineers**

In carrying out the program established under paragraph (1), the Secretary shall provide financial assistance to institutions of higher education to create new, or support existing, degree programs to ensure the availability of trained electrical and mechanical engineers with the skills necessary for the advancement of—

(A) plug-in electric drive vehicles; and

(B) other forms of electric drive transportation technology vehicles.

**(4) Authorization of appropriations**

There are authorized to be appropriated such sums as may be necessary to carry out this subsection.

(Pub. L. 110–140, title I, §131, Dec. 19, 2007, 121 Stat. 1508.)

## EFFECTIVE DATE

Section effective on the date that is 1 day after Dec. 19, 2007, see section 1601 of Pub. L. 110–140, set out as a note under section 1824 of Title 2, The Congress.

**§ 17012. Advanced battery loan guarantee program****(a) Establishment of program**

The Secretary shall establish a program to provide guarantees of loans by private institutions for the construction of facilities for the manufacture of advanced vehicle batteries and battery systems that are developed and produced in the United States, including advanced lithium ion batteries and hybrid electrical system and component manufacturers and software designers.

**(b) Requirements**

The Secretary may provide a loan guarantee under subsection (a) to an applicant if—

(1) without a loan guarantee, credit is not available to the applicant under reasonable terms or conditions sufficient to finance the construction of a facility described in subsection (a);

(2) the prospective earning power of the applicant and the character and value of the security pledged provide a reasonable assurance of repayment of the loan to be guaranteed in accordance with the terms of the loan; and

(3) the loan bears interest at a rate determined by the Secretary to be reasonable, taking into account the current average yield on outstanding obligations of the United States with remaining periods of maturity comparable to the maturity of the loan.

**(c) Criteria**

In selecting recipients of loan guarantees from among applicants, the Secretary shall give preference to proposals that—

- (1) meet all applicable Federal and State permitting requirements;
- (2) are most likely to be successful; and
- (3) are located in local markets that have the greatest need for the facility.

**(d) Maturity**

A loan guaranteed under subsection (a) shall have a maturity of not more than 20 years.

**(e) Terms and conditions**

The loan agreement for a loan guaranteed under subsection (a) shall provide that no provision of the loan agreement may be amended or waived without the consent of the Secretary.

**(f) Assurance of repayment**

The Secretary shall require that an applicant for a loan guarantee under subsection (a) provide an assurance of repayment in the form of a performance bond, insurance, collateral, or other means acceptable to the Secretary in an amount equal to not less than 20 percent of the amount of the loan.

**(g) Guarantee fee**

The recipient of a loan guarantee under subsection (a) shall pay the Secretary an amount determined by the Secretary to be sufficient to cover the administrative costs of the Secretary relating to the loan guarantee.

**(h) Full faith and credit**

The full faith and credit of the United States is pledged to the payment of all guarantees made under this section. Any such guarantee made by the Secretary shall be conclusive evidence of the eligibility of the loan for the guarantee with respect to principal and interest. The validity of the guarantee shall be incontestable in the hands of a holder of the guaranteed loan.

**(i) Reports**

Until each guaranteed loan under this section has been repaid in full, the Secretary shall annually submit to Congress a report on the activities of the Secretary under this section.

**(j) Authorization of appropriations**

There are authorized to be appropriated such sums as are necessary to carry out this section.

**(k) Termination of authority**

The authority of the Secretary to issue a loan guarantee under subsection (a) terminates on the date that is 10 years after December 19, 2007. (Pub. L. 110-140, title I, §135, Dec. 19, 2007, 121 Stat. 1513.)

EFFECTIVE DATE

Section effective on the date that is 1 day after Dec. 19, 2007, see section 1601 of Pub. L. 110-140, set out as a note under section 1824 of Title 2, The Congress.

**§ 17013. Advanced technology vehicles manufacturing incentive program**

**(a) Definitions**

In this section:

**(1) Advanced technology vehicle**

The term “advanced technology vehicle” means an ultra efficient vehicle or a light duty vehicle that meets—

(A) the Bin 5 Tier II emission standard established in regulations issued by the Administrator of the Environmental Protection Agency under section 202(i) of the Clean Air Act (42 U.S.C. 7521(i)), or a lower-numbered Bin emission standard;

(B) any new emission standard in effect for fine particulate matter prescribed by the Administrator under that Act (42 U.S.C. 7401 et seq.); and

(C) at least 125 percent of the average base year combined fuel economy for vehicles with substantially similar attributes.

**(2) Combined fuel economy**

The term “combined fuel economy” means—

(A) the combined city/highway miles per gallon values, as reported in accordance with section 32904 of title 49; and

(B) in the case of an electric drive vehicle with the ability to recharge from an off-board source, the reported mileage, as determined in a manner consistent with the Society of Automotive Engineers recommended practice for that configuration or a similar practice recommended by the Secretary.

**(3) Engineering integration costs**

The term “engineering integration costs” includes the cost of engineering tasks relating to—

(A) incorporating qualifying components into the design of advanced technology vehicles; and

(B) designing tooling and equipment and developing manufacturing processes and material suppliers for production facilities that produce qualifying components or advanced technology vehicles.

**(4) Qualifying components**

The term “qualifying components” means components that the Secretary determines to be—

(A) designed for advanced technology vehicles; and

(B) installed for the purpose of meeting the performance requirements of advanced technology vehicles.

**(5) Ultra efficient vehicle**

The term “ultra efficient vehicle” means a fully closed compartment vehicle designed to carry at least 2 adult passengers that achieves—

(A) at least 75 miles per gallon while operating on gasoline or diesel fuel;

(B) at least 75 miles per gallon equivalent while operating as a hybrid electric-gasoline or electric-diesel vehicle; or

(C) at least 75 miles per gallon equivalent while operating as a fully electric vehicle.

**(b) Advanced vehicles manufacturing facility**

The Secretary shall provide facility funding awards under this section to automobile manu-