

## AMENDMENTS

2014—Subsec. (c)(2)(A). Pub. L. 113-79 substituted “section 8102(b)” for “section 8102(h)(1)”.

**§ 16254. Regional bioeconomy development grants**

**(a) In general**

Using amounts made available under subsection (g), the Secretary of Agriculture (referred to in this section as the “Secretary”) shall make available on a competitive basis grants to eligible entities described in subsection (b) for the purposes described in subsection (c).

**(b) Eligible entities**

An entity eligible for a grant under this section is any regional bioeconomy development association, agricultural or energy trade association, or Land Grant institution that—

- (1) proposes to use the grant for the purposes described in subsection (c); and
- (2) has not previously received a grant under this section.

**(c) Regional bioeconomy development association grant purposes**

A grant made under this section shall be used to support and promote the growth and development of the bioeconomy within the region served by the eligible entity, through coordination, education, outreach, and other endeavors by the eligible entity.

**(d) Matching funds**

**(1) In general**

Grant recipients shall provide matching non-Federal funds equal to the amount of the grant received.

**(2) Expenditure**

Matching funds shall be expended in advance of grant funding, so that for every dollar of grant that is advanced, an equal amount of matching funds shall have been funded prior to submitting the request for reimbursement.

**(e) Administration**

The Secretary shall establish such administrative requirements for grants under this section, including requirements for applications for the grants, as the Secretary considers appropriate.

**(f) Amount**

A grant made under this section shall not exceed \$500,000.

**(g) Authorizations of appropriations**

There are authorized to be appropriated to make grants under this section—

- (1) \$1,000,000 for fiscal year 2006; and
- (2) such sums as are necessary for each of fiscal years 2007 through 2015.

(Pub. L. 109-58, title IX, §945, Aug. 8, 2005, 119 Stat. 882.)

**§ 16255. Preprocessing and harvesting demonstration grants**

**(a) In general**

The Secretary of Agriculture (referred to in this section as the “Secretary”) shall make

grants available on a competitive basis to enterprises owned by agricultural producers, for the purposes of demonstrating cost-effective, cellulosic biomass innovations in—

- (1) preprocessing of feedstocks, including cleaning, separating and sorting, mixing or blending, and chemical or biochemical treatments, to add value and lower the cost of feedstock processing at a biorefinery; or
- (2) 1-pass or other efficient, multiple crop harvesting techniques.

**(b) Limitations on grants**

**(1) Number of grants**

Not more than 5 demonstration projects per fiscal year shall be funded under this section.

**(2) Non-Federal cost share**

The non-Federal cost share of a project under this section shall be not less than 20 percent, as determined by the Secretary.

**(c) Condition of grant**

To be eligible for a grant for a project under this section, a recipient of a grant or a participating entity shall agree to use the material harvested under the project—

- (1) to produce ethanol; or
- (2) for another energy purpose, such as the generation of heat or electricity.

**(d) Authorization for appropriations**

There is authorized to be appropriated to carry out this section \$5,000,000 for each of fiscal years 2006 through 2010.

(Pub. L. 109-58, title IX, §946, Aug. 8, 2005, 119 Stat. 883.)

**§ 16256. Education and outreach**

**(a) In general**

The Secretary of Agriculture shall establish, within the Department of Agriculture or through an independent contracting entity, a program of education and outreach on biobased fuels and biobased products consisting of—

- (1) training and technical assistance programs for feedstock producers to promote producer ownership, investment, and participation in the operation of processing facilities; and
- (2) public education and outreach to familiarize consumers with the biobased fuels and biobased products.

**(b) Authorization of appropriations**

There is authorized to be appropriated to carry out this section \$1,000,000 for each of fiscal years 2006 through 2010.

(Pub. L. 109-58, title IX, §947, Aug. 8, 2005, 119 Stat. 883.)

PART E—NUCLEAR ENERGY

**§ 16271. Nuclear energy**

**(a) In general**

The Secretary shall conduct programs of civilian nuclear energy research, development, demonstration, and commercial application, including activities described in this part. Programs under this part shall take into consideration the following objectives:

(1) Enhancing nuclear power's viability as part of the United States energy portfolio.

(2) Providing the technical means to reduce the likelihood of nuclear proliferation.

(3) Maintaining a cadre of nuclear scientists and engineers.

(4) Maintaining National Laboratory and university nuclear programs, including their infrastructure.

(5) Supporting both individual researchers and multidisciplinary teams of researchers to pioneer new approaches in nuclear energy, science, and technology.

(6) Developing, planning, constructing, acquiring, and operating special equipment and facilities for the use of researchers.

(7) Supporting technology transfer and other appropriate activities to assist the nuclear energy industry, and other users of nuclear science and engineering, including activities addressing reliability, availability, productivity, component aging, safety, and security of nuclear power plants.

(8) Reducing the environmental impact of nuclear energy-related activities.

**(b) Authorization of appropriations for core programs**

There are authorized to be appropriated to the Secretary to carry out nuclear energy research, development, demonstration, and commercial application activities, including activities authorized under this part, other than those described in subsection (c)—

- (1) \$330,000,000 for fiscal year 2007;
- (2) \$355,000,000 for fiscal year 2008; and
- (3) \$495,000,000 for fiscal year 2009.

**(c) Nuclear infrastructure and facilities**

There are authorized to be appropriated to the Secretary to carry out activities under section 16275 of this title—

- (1) \$135,000,000 for fiscal year 2007;
- (2) \$140,000,000 for fiscal year 2008; and
- (3) \$145,000,000 for fiscal year 2009.

**(d) Allocations**

From amounts authorized under subsection (a), the following sums are authorized:

- (1) For activities under section 16273 of this title—
  - (A) \$150,000,000 for fiscal year 2007;
  - (B) \$155,000,000 for fiscal year 2008; and
  - (C) \$275,000,000 for fiscal year 2009.
- (2) For activities under section 16274 of this title—
  - (A) \$43,600,000 for fiscal year 2007;
  - (B) \$50,100,000 for fiscal year 2008; and
  - (C) \$56,000,000 for fiscal year 2009.
- (3) For activities under section 16277 of this title, \$6,000,000 for each of fiscal years 2007 through 2009.

**(e) Limitation**

None of the funds authorized under this section may be used to decommission the Fast Flux Test Facility.

(Pub. L. 109–58, title IX, §951, Aug. 8, 2005, 119 Stat. 884.)

**§ 16272. Nuclear energy research programs**

**(a) Nuclear Energy Research Initiative**

The Secretary shall carry out a Nuclear Energy Research Initiative for research and development related to nuclear energy.

**(b) Nuclear Energy Systems Support Program**

The Secretary shall carry out a Nuclear Energy Systems Support Program to support research and development activities addressing reliability, availability, productivity, component aging, safety, and security of existing nuclear power plants.

**(c) Nuclear Power 2010 Program**

**(1) In general**

The Secretary shall carry out a Nuclear Power 2010 Program, consistent with recommendations of the Nuclear Energy Research Advisory Committee of the Department in the report entitled “A Roadmap to Deploy New Nuclear Power Plants in the United States by 2010” and dated October 2001.

**(2) Administration**

The Program shall include—

(A) use of the expertise and capabilities of industry, institutions of higher education, and National Laboratories in evaluation of advanced nuclear fuel cycles and fuels testing;

(B) consideration of a variety of reactor designs suitable for both developed and developing nations;

(C) participation of international collaborators in research, development, and design efforts, as appropriate; and

(D) encouragement for participation by institutions of higher education and industry.

**(d) Generation IV Nuclear Energy Systems Initiative**

**(1) In general**

The Secretary shall carry out a Generation IV Nuclear Energy Systems Initiative to develop an overall technology plan for and to support research and development necessary to make an informed technical decision about the most promising candidates for eventual commercial application.

**(2) Administration**

In conducting the Initiative, the Secretary shall examine advanced proliferation-resistant and passively safe reactor designs, including designs that—

(A) are economically competitive with other electric power generation plants;

(B) have higher efficiency, lower cost, and improved safety compared to reactors in operation on August 8, 2005;

(C) use fuels that are proliferation resistant and have substantially reduced production of high-level waste per unit of output; and

(D) use improved instrumentation.

**(e) Reactor production of hydrogen**

The Secretary shall carry out research to examine designs for high-temperature reactors capable of producing large-scale quantities of hydrogen.