

(4) new highly active, selective, and durable electrolyzer catalysts and electro-catalysts that—

(A) greatly reduce or eliminate the need for platinum group metals; and

(B) enable electrolysis of complex mixtures with impurities, including seawater;

(5) modular electrolyzers for distributed energy systems and the bulk-power system (as defined in section 8240(a) of title 16);

(6) low-cost membranes or electrolytes and separation materials that are durable in the presence of impurities or seawater;

(7) improved component design and material integration, including with respect to electrodes, porous transport layers and bipolar plates, and balance-of-system components, to allow for scale-up and domestic manufacturing of electrolyzers at a high volume;

(8) clean hydrogen storage technologies;

(9) technologies that integrate hydrogen production with—

(A) clean hydrogen compression and drying technologies;

(B) clean hydrogen storage; and

(C) transportation or stationary systems; and

(10) integrated systems that combine hydrogen production with renewable power or nuclear power generation technologies, including hybrid systems with hydrogen storage.

(f) Grants, contracts, cooperative agreements

(1) Grants

In carrying out the program, the Secretary shall award grants, on a competitive basis, to eligible entities for projects that the Secretary determines would provide the greatest progress toward achieving the goal of the program described in subsection (c).

(2) Contracts and cooperative agreements

In carrying out the program, the Secretary may enter into contracts and cooperative agreements with eligible entities and Federal agencies for projects that the Secretary determines would further the purpose of the program described in subsection (b).

(3) Eligibility; applications

(A) In general

The eligibility of an entity to receive a grant under paragraph (1), to enter into a contract or cooperative agreement under paragraph (2), or to receive funding for a demonstration project under subsection (d) shall be determined by the Secretary.

(B) Applications

An eligible entity desiring to receive a grant under paragraph (1), to enter into a contract or cooperative agreement under paragraph (2), or to receive funding for a demonstration project under subsection (d) shall submit to the Secretary an application at such time, in such manner, and containing such information as the Secretary may require.

(g) Authorization of appropriations

There is authorized to be appropriated to the Secretary to carry out the program \$1,000,000,000

for the period of fiscal years 2022 through 2026, to remain available until expended.

(Pub. L. 109–58, title VIII, §816, as added Pub. L. 117–58, div. D, title III, §40314(2), Nov. 15, 2021, 135 Stat. 1013.)

Editorial Notes

PRIOR PROVISIONS

A prior section 816 of Pub. L. 109–58 was renumbered section 821 and is classified to section 16165 of this title.

Statutory Notes and Related Subsidiaries

WAGE RATE REQUIREMENTS

For provisions relating to rates of wages to be paid to laborers and mechanics on projects for construction, alteration, or repair work funded under div. D or an amendment by div. D of Pub. L. 117–58, including authority of Secretary of Labor, see section 18851 of this title.

§ 16161e. Laboratory management

(a) In general

The National Energy Technology Laboratory, the Idaho National Laboratory, and the National Renewable Energy Laboratory shall continue to work in a crosscutting manner to carry out the programs established under sections 16161a and 16161c of this title.

(b) Coordination; clearinghouse

In carrying out subsection (a), the National Energy Technology Laboratory shall—

(1) coordinate with—

(A) the Idaho National Laboratory, the National Renewable Energy Laboratory, and other National Laboratories in a cross-cutting manner;

(B) institutions of higher education;

(C) research institutes;

(D) industrial researchers; and

(E) international researchers; and

(2) act as a clearinghouse to collect information from, and distribute information to, the National Laboratories and other entities described in subparagraphs (B) through (E) of paragraph (1).

(Pub. L. 109–58, title VIII, §817, as added Pub. L. 117–58, div. D, title III, §40314(2), Nov. 15, 2021, 135 Stat. 1014.)

Statutory Notes and Related Subsidiaries

WAGE RATE REQUIREMENTS

For provisions relating to rates of wages to be paid to laborers and mechanics on projects for construction, alteration, or repair work funded under div. D or an amendment by div. D of Pub. L. 117–58, including authority of Secretary of Labor, see section 18851 of this title.

§ 16162. Technology transfer

In carrying out this subchapter, the Secretary shall carry out programs that—

(1) provide for the transfer of critical hydrogen and fuel cell technologies to the private sector;

(2) accelerate wider application of those technologies in the global market;

(3) foster the exchange of generic, nonproprietary information; and