

(ii) the use of electricity, biofuels, hydrogen, or other alternative fuels to produce process heat; and

(iii) the use of demand response; and

(D) identify current and potential future industrial clusters in which multiple firms and facilities in a defined geographic area share the costs and benefits of infrastructure for clean manufacturing, such as—

(i) hydrogen generation, production, transport, use, and storage infrastructure; and

(ii) carbon dioxide capture, transport, use, and storage infrastructure.

(3) Residential Energy Consumption Survey

With respect to the Residential Energy Consumption Survey, the Administrator shall—

(A) implement measures to provide more detailed representations of data by—

(i) geographic area, including by State (for each State);

(ii) building type, including multi-family buildings;

(iii) household income;

(iv) location in a rural area; and

(v) other demographic characteristics, as determined by the Administrator; and

(B) report measures of—

(i) household electrical service capacity;

(ii) access to utility demand-side management programs and bill credits;

(iii) characteristics of the energy mix used to generate electricity in different regions; and

(iv) the household energy burden for households—

(I) in different geographic areas;

(II) by electricity, heating, and other end-uses; and

(III) with different demographic characteristics that correlate with increased household energy burden, including—

(aa) having a low household income;

(bb) being a minority household;

(cc) residing in manufactured or multifamily housing;

(dd) being in a fixed or retirement income household;

(ee) residing in rental housing; and

(ff) other factors, as determined by the Administrator.

(Pub. L. 117-58, div. D, title IV, § 40413, Nov. 15, 2021, 135 Stat. 1042.)

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.

§ 18774. Data collection on electric vehicle integration with the electricity grids

(a) In general

Not later than 1 year after November 15, 2021, the Administrator shall develop and implement

measures to expand data collection with respect to electric vehicle integration with the electricity grids.

(b) Sources of data

The sources of the data collected pursuant to subsection (a) may include—

(1) host-owned or charging-network-owned electric vehicle charging stations;

(2) aggregators of charging-network electricity demand;

(3) electric utilities offering managed-charging programs;

(4) individual, corporate, or public owners of electric vehicles; and

(5) balancing authority analyses of—

(A) transformer loading congestion; and

(B) distribution-system congestion.

(c) Consultation and coordination

In carrying out subsection (a), the Administrator may consult and enter into agreements with other institutions having relevant data and data collection capabilities, such as—

(1) the Secretary of Transportation;

(2) the Secretary;

(3) the Administrator of the Environmental Protection Agency;

(4) States or State agencies; and

(5) private entities.

(Pub. L. 117-58, div. D, title IV, § 40414, Nov. 15, 2021, 135 Stat. 1043.)

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.

§ 18775. Plan for the modeling and forecasting of demand for minerals used in the energy sector

(a) Plan

(1) In general

Not later than 180 days after November 15, 2021, the Administrator, in coordination with the Director of the United States Geological Survey, shall develop a plan for the modeling and forecasting of demand for energy technologies, including for energy production, transmission, or storage purposes, that use minerals that are or could be designated as critical minerals.

(2) Inclusions

The plan developed under paragraph (1) shall identify—

(A) the type and quantity of minerals consumed, delineated by energy technology;

(B) existing markets for manufactured energy-producing, energy-transmission, and energy-storing equipment; and

(C) emerging or potential markets for new energy-producing, energy-transmission, and energy-storing technologies entering commercialization.

(b) Metrics

The plan developed under subsection (a)(1) shall produce forecasts of energy technology demand—

(1) over the 1-year, 5-year, and 10-year periods beginning on the date on which development of the plan is completed;

(2) by economic sector; and

(3) according to any other parameters that the Administrator, in collaboration with the Secretary of the Interior, acting through the Director of the United States Geological Survey, determines are needed for the Annual Critical Minerals Outlook.

(c) Collaboration

The Administrator shall develop the plan under subsection (a)(1) in consultation with—

(1) the Secretary with respect to the possible trajectories of emerging energy-producing and energy-storing technologies; and

(2) the Secretary of the Interior, acting through the Director of the United States Geological Survey—

(A) to ensure coordination;

(B) to avoid duplicative effort; and

(C) to align the analysis of demand with data and analysis of where the minerals are produced, refined, and subsequently processed into materials and parts that are used to build energy technologies.

(Pub. L. 117-58, div. D, title IV, § 40415, Nov. 15, 2021, 135 Stat. 1044.)

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.

§ 18776. Expansion of international energy data

(a) In general

Not later than 1 year after November 15, 2021, the Administrator shall implement measures to expand and improve the international energy data resources of the Energy Information Administration in order to understand—

(1) the production and use of energy in various countries;

(2) changing patterns of energy use internationally;

(3) the relative costs and environmental impacts of energy production and use internationally; and

(4) plans for or construction of major energy facilities or infrastructure.

(b) Requirements

In carrying out subsection (a), the Administrator shall—

(1) work with, and leverage the data resources of, the International Energy Agency;

(2) include detail on energy consumption by fuel, economic sector, and end use within countries for which data are available;

(3) collect relevant measures of energy use, including—

(A) cost; and

(B) emissions intensity; and

(4) provide tools that allow for straightforward country-to-country comparisons of

energy production and consumption across economic sectors and end uses.

(Pub. L. 117-58, div. D, title IV, § 40416, Nov. 15, 2021, 135 Stat. 1045.)

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.

§ 18777. Harmonization of efforts and data

Not later than 1 year after November 15, 2021, the Administrator shall establish a system to harmonize, to the maximum extent practicable and consistent with data integrity—

(1) the data collection efforts of the Administrator, including any data collection required under this subchapter, with the data collection efforts of—

(A) the Environmental Protection Agency, as the Administrator determines to be appropriate;

(B) other relevant Federal agencies, as the Administrator determines to be appropriate; and

(C) State or regional energy credit registries, as the Administrator determines to be appropriate;

(2) the data collected under this subchapter, including the operating data on electricity generation collected under section 18772(a) of this title, with data collected by the entities described in subparagraphs (A) through (C) of paragraph (1), including any measurements of greenhouse gas and other pollutant emissions collected by the Environmental Protection Agency, as the Administrator determines to be appropriate; and

(3) the efforts of the Administrator to identify and report relevant impacts, opportunities, and patterns with respect to energy use, including the identification of community-level economic and environmental impacts required under section 18773(b)(1)(C) of this title, with the efforts of the Environmental Protection Agency and other relevant Federal agencies, as determined by the Administrator, to identify similar impacts, opportunities, and patterns.

(Pub. L. 117-58, div. D, title IV, § 40419, Nov. 15, 2021, 135 Stat. 1047.)

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.