

- (H) expanding Regional Transmission Organization balancing authorities;
- (I) improvements in real-time—
  - (i) accuracy of locational marginal prices; and
  - (ii) signals to flexible demand; and
- (J) disruptions to grid operations, including disruptions caused by cyber sources, physical sources, extreme weather events, or other sources.

**(d) Distribution system operations**

**(1) In general**

Not later than 1 year after November 15, 2021, the Administrator shall establish a system to provide to the public timely data on the operations of load-serving entities in the electricity grids of the United States.

**(2) Requirements**

**(A) In general**

In carrying out paragraph (1), the Administrator shall—

(i) not less frequently than annually, provide data on—

(I) the delivered generation resource mix for each load-serving entity; and

(II) the distributed energy resources operating within each service area of a load-serving entity;

(ii) harmonize the data on delivered generation resource mix described in clause (i)(I) with measurements of greenhouse gas emissions collected by the Environmental Protection Agency;

(iii) to the maximum extent practicable, disseminate the data described in clause (i)(I) and the harmonized data described in clause (ii) on a real-time basis; and

(iv) provide historical data, beginning with the earliest calendar year practicable, but not later than calendar year 2020, on the delivered generation resource mix described in clause (i)(I).

**(B) Data on the delivered generation resource mix**

In collecting the data described in subparagraph (A)(i)(I), the Administrator shall—

(i) use existing voluntary industry methodologies, including reporting protocols, databases, and emissions and energy use tracking software that provide consistent, timely, and accessible carbon emissions intensity rates for delivered electricity;

(ii) consider that generation and transmission entities may provide data on behalf of load-serving entities;

(iii) to the extent that the Administrator determines necessary, and in a manner designed to protect confidential information, require each load-serving entity to submit additional information as needed to determine the delivered generation resource mix of the load-serving entity, including financial or contractual agreements for power and generation resource type attributes with respect to power owned by or retired by the load-serving entity; and

(iv) for any portion of the generation resource mix of a load-serving entity that is otherwise unaccounted for, develop a methodology to assign to the load-serving entity a share of the otherwise unaccounted for resource mix of the relevant balancing authority.

(Pub. L. 117–58, div. D, title IV, § 40412, Nov. 15, 2021, 135 Stat. 1039.)

**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.

**§ 18773. Expansion of energy consumption surveys**

**(a) In general**

Not later than 2 years after November 15, 2021, the Administrator shall implement measures to expand the Manufacturing Energy Consumption Survey, the Commercial Building Energy Consumption Survey, and the Residential Energy Consumption Survey to include data on energy end use in order to facilitate the identification of—

(1) opportunities to improve energy efficiency and energy productivity;

(2) changing patterns of energy use; and

(3) opportunities to better understand and manage miscellaneous electric loads.

**(b) Requirements**

**(1) In general**

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

(A) increase the scope and frequency of data collection on energy end uses and services;

(B) use new data collection methods and tools in order to obtain more comprehensive data and reduce the burden on survey respondents, including by—

(i) accessing other existing data sources; and

(ii) if feasible, developing online and real-time reporting systems;

(C) identify and report community-level economic and environmental impacts, including with respect to—

(i) the reliability and security of the energy supply; and

(ii) local areas with households with a high energy burden; and

(D) improve the presentation of data, including by—

(i) enabling the presentation of data in an interactive cartographic format on a national, regional, State, and local level with the functionality of viewing various economic, energy, and demographic measures on an individual basis or in combination; and

(ii) incorporating the results of the data collection, methods, and tools described in

subparagraphs (A) and (B) into existing and new digital distribution methods.

**(2) Manufacturing Energy Consumption Survey**

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

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

(B) for large manufacturing facilities, break out process heat use by required process temperatures in order to facilitate the identification of opportunities for cost reductions and energy efficiency or energy productivity improvements;

(C) collect information on—

(i) energy source-switching capabilities, especially with respect to thermal processes and the efficiency of thermal processes;

(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