
ENERGY EFFICIENCY & RENEWABLE ENERGY RESOURCES

FOR STATE & LOCAL LEADERS



Energy efficiency and renewable energy are a win-win for states, local governments, and K-12 schools.

Investments in energy efficiency and renewable energy technologies and infrastructure help create vibrant and healthy communities; provide a secure, reliable source of energy for homes and businesses; and produce well-paying local jobs. As key decision makers for American energy investments, state and local governments are valued partners to the U.S. Department of Energy (DOE). Energy innovations at the state and local level help power the nation's economy.

The Weatherization and Intergovernmental Programs Office (WIP) is part of DOE's **Office of Energy Efficiency and Renewable Energy** (EERE) and supports DOE's mission to create greater energy affordability, security, and resilience. WIP's mission is to **enable strategic investments** in energy efficiency and renewable energy technologies using innovative practices across the United States in partnership with a wide range of stakeholders, including state and local organizations and community-based nonprofits. WIP supports DOE's strategic objective **to lower energy bills while expanding cost-effective energy choices** for all Americans through the Weatherization Assistance Program (WAP) and State Energy Program (SEP). For example:

- WAP has weatherized more than **7 million homes** and **annually supports 8,500 jobs** across the country. Through these weatherization improvements, households save an average of \$283 every year.
- States use SEP funds to implement their energy security, economic development, resilience, and emergency preparedness plans. Since 2017, SEP has supported states in **increasing energy efficiency** in more than 24,000 public buildings (91 million square feet) through energy efficiency upgrades.

WIP also helps state and local governments meet their energy goals by **developing tools and solutions** to barriers; convening and creating peer exchanges to showcase public-sector leadership and effective private-public partnerships; and providing information from leading technical experts.

State and Local Leaders successfully leveraged resources to



New Resource: Low- and No-Cost Measures Checklist

Learn more: Wastewater Energy Management Toolkit

New Resource: Performance Contracting National Resource Center

Learn more: ESPC Toolkit

New Resource: Low-Income Energy Affordability Data (LEAD) Tool

Learn more: Clean Energy for Low Income Communities Accelerator Toolkit

For more toolkits with featured resources and replicable solutions, visit:

betterbuildingsolutioncenter.energy.gov/accelerators

Take A Closer Look



Wastewater Infrastructure

- Water and wastewater treatment operating costs typically account for 30%-40% of annual municipal energy budgets
- **Upgrade projects can reduce total facility energy consumption by up to 50%**

Learn more and find resources: energy.gov/eere/slsc/wastewater-infrastructure



Resilience

- In 2017, the U.S. experienced natural disasters that cost over \$300 billion in damages and led to longer and more frequent disruptions in power
- **Resilient communities with energy-efficient facilities and other distributed energy resources can reduce danger to public safety, security, and health**

Learn more and find resources: energy.gov/eere/slsc/resilience



Correctional Facilities

- Correctional facilities are multi-building campuses with year-round 24/7 operations and one of the highest energy uses per square foot of community buildings
- **Energy efficiency improvements can save \$710 million annually in energy and water costs across the sector**

Learn more and find resources: energy.gov/eere/slsc/corrections

WIP Project Map

This interactive project map allows users to click each state and open a new web page summarizing that state's SEP and WAP projects, recently published WIP success stories, and state-related Better Buildings initiatives.

Learn more and find resources: energy.gov/eere/wipo/weatherization-and-intergovernmental-program-office-projects-map

Institute an Equity Lens

Learn how to support affordable energy upgrades in low-income communities and benefit from a review of more than 180 publications on the persistent problem of high energy burdens among low-income households, including several promising solutions to address energy affordability such as inclusive solar programs, leveraged health care benefits, and behavioral economics. Find resources at: energy.gov/eere/slsc/low-income-community-energy-solutions

Keep the Conversation Going

Subscribe to Updates: energy.gov/eere/slsc/subscribe • Explore Resources: energy.gov/eere/slsc/explore

Contact Us: stateandlocal@ee.doe.gov

Energy Efficiency Leadership Framework

WIP strategically plans its technical assistance for states, local governments, and K-12 school districts using a synthesis of stakeholder feedback and public-sector leadership best practices known as the Energy Efficiency Leadership Framework (Leadership Framework). The Leadership Framework can help the public sector maximize energy and cost savings by addressing some of the most pervasive barriers to achieving energy efficiency leadership success. The Leadership Framework consists of four 'Solution Pathways' foundational to public-sector energy efficiency activities that achieve energy goals:



Develop Plans and Programs

Craft an energy plan and/or create a program or initiative

Resources include:

- **State and Local Planning for Energy (SLOPE) Platform**
Enables more data-driven state and local energy planning by integrating dozens of distinct sources of energy efficiency, renewable energy, and sustainable transportation data into an easy-to-access online platform.
- **Highlights of State and Local Planning for Energy Efficiency and Renewable Energy**
Features state and local government planning efforts that showcase model energy efficiency, renewable energy, and sustainable transportation technologies, along with promising practices across jurisdictions.
- **Guide for Incorporating Energy Efficiency in State Energy Plans**
Provides best practices for incorporating energy efficiency into state plans and offers tips and examples at each stage in the energy-planning process. The resource complements the National Association of State Energy Officials (NASEO) State Energy Planning Guidelines.
- **Weatherization Assistance Program (WAP) Deferrals Resource Guide**
Compiles information and tools for WAP grantees to track weatherization service deferrals based on promising practices, in addition to highlighting the importance of comprehensive deferral and/or referral plans.



Empower Organizations

Optimize organizational expertise and culture

Resources include:

- **Building Your Energy Team**
Features a list of national fellowship or partnership programs and energy management position description templates that states, local governments, and K-12 school districts can leverage to build their energy team.
- **Rural K-12 School Facility Workforce Development and Training**
Includes materials, trainings, and certification courses designed to provide building operators of rural K-12 school facilities with actionable steps to improve their energy efficiency knowledge and create comfortable, cost-saving, and energy-efficient learning environments.
- **State Energy Program Implementation Models**
Describes state approaches to overcoming an energy barrier. Implementation models serve as "how-to" guides for other states who wish to replicate programs that are achieving energy efficiency savings. New models from Washington and North Carolina are now available!
- **WAP Trainings and Toolkits**
Includes several resources for WAP grantees and subgrantees to ensure weatherization projects are conducted in the most effective, durable, and safe manner possible, including the Standard Work Specifications for Home Energy Upgrades Tool that defines minimum construction requirements for retrofits and WAP Administrative Trainings that cover proper back-end administrative best practices.



Establish Financing

Access and use financing mechanisms

Resources include:

- **Expanding ESPC to New Markets**
Introduces ESPC through a series of sector-specific primers to increase energy efficiency and upgrade facilities in certain market sectors. Sector primers are available for K-12 schools, fleets and fueling infrastructure, and water resource recovery facilities. Upcoming primers will address small projects and healthcare facilities.
- **Achieving Energy Savings in Small and Medium Public Facilities: A Strategic Approach to Prioritizing Projects and Using Financing**
Provides best practices for state, local government, and K-12 school staff managing small and medium facilities so they can make more informed and strategic decisions about using financing to complete energy upgrades.
- **Leveraging Bond Financing to Support Energy Efficiency and Renewable Energy Goals: A Resource Summary for State and Local Governments**
Summarizes how bonds can be used to pay for energy efficiency and renewable energy projects and initiatives for state, local, and K-12 energy professionals and non-finance experts.
- **Practices for Demonstrating C-PACE Program Impacts**
Provides state and local sponsors of commercial property assessed clean energy (C-PACE) programs with the value proposition and tools for tracking C-PACE program outcomes.



Implement Data Management

Collect, analyze, monitor, and use energy and operational data

Resources include:

- **Energy Data Management Guide**
Presents a seven-step framework for establishing a robust and sustainable energy data management program in the public sector, that once implemented, can lead to sustained energy savings of 2% a year.
- **Benchmarking and Transparency: Resources for State and Local Governments**
Provides state and local leaders with streamlined access to key existing resources for developing and implementing high-impact building energy benchmarking and transparency programs in their jurisdictions.
- **Evaluation, Measurement, and Verification of Energy Data**
Offers a web portal that provides a variety of resources on evaluating the performance of energy efficiency activities.
- **Online Weatherization Assistant**
Helps states and local weatherization agencies implement the WAP by providing four energy audit tools: the National Energy Audit Tool, Manufactured Home Energy Audit, Multifamily Tool for Energy Audits, and a Health and Safety Audit.

Popular Tools and Resources:

energy.gov/eere/slsc/popular-tools-and-resources

Engaging with EERE

EERE's mission is to create and sustain American leadership in the transition to a global clean energy economy. Its vision is a strong and prosperous America powered by clean, affordable, and secure energy.

Examples of EERE initiatives and resources for state and local governments in the areas of energy efficiency, renewable energy, and sustainable transportation are featured below. To learn more, visit the State and Local Solution Center: energy.gov/eere/slsc/other-state-and-local-resources.

ENERGY EFFICIENCY



GOVERNMENT

The WIP Project Map

enables users to explore recent SEP and WAP projects, WIP success stories, and public-sector Better Buildings initiatives.

The Demand Response and Time-Variable Pricing Programs

Database provides profiles of U.S. demand response and time-variable pricing programs by state.



HOMES

Home Improvement Expert Checklists

help homeowners ensure their contractors get the job done right which is essential to securing the energy savings homeowners invested in.



BUILDINGS

The Standard Energy Efficiency Data Platform

streamlines the process for cities and states to manage and standardize portfolio-scale building energy and attribute data. Users can leverage, combine, clean, store, analyze, and share building performance, audit, and other relevant data using this open-source database.



ADVANCED MANUFACTURING

The Industrial Assessment Centers Program

provides small- and medium-sized manufacturers with no-cost energy assessments conducted by university-based teams of engineering students and faculty to identify opportunities to improve productivity and competitiveness, reduce waste, and save energy.

RENEWABLE POWER



SOLAR

SolSmart

helps communities across the country become "open for solar businesses" through no-cost technical assistance and national recognition.



GEOHERMAL

The GeoVision Scenario Viewer

is a powerful suite of interactive tools to visualize deployment potential of geothermal electricity generation, district heating, and heat pumps at state and county levels through 2050.



WIND

WINdExchange

provides resources to help communities weigh the benefits and costs of wind energy and get data, analysis tools, and information about each step in the wind energy development process.



WATER

Hydropower Vision

is a first-of-its-kind comprehensive analysis to evaluate future pathways for hydropower in the United States. It is focused on continued technical evolution, increased energy market value, and environmental sustainability.

SUSTAINABLE TRANSPORTATION



VEHICLES

Clean Cities

coalitions bring together community and business leaders and other key stakeholders to drive the development and use of affordable domestic transportation fuels, technologies, and energy-efficient mobility solutions.



BIOENERGY

Integrated Biorefineries Interactive Map

showcases biorefineries by state at pilot, demonstration, and pioneer scales.



HYDROGEN AND FUEL CELLS

H2@Scale

initiative envisions affordable and large-scale production, storage, transport, and utilization of hydrogen in the United States, adding value across sectors in the economy.

EERE FUNDING opportunities are available at the EERE Exchange: eere-exchange.energy.gov.

For other federal funding opportunities, visit grants.gov.

BETTER BUILDINGS is a DOE initiative designed to improve the lives of the American people by driving leadership in energy innovation. Through Better Buildings, DOE partners with leaders in the public and private sectors to make the nation's homes, commercial buildings, and industrial plants more energy efficient by accelerating investment and sharing of successful best practices. Visit betterbuildingsinitiative.energy.gov.



U.S. DEPARTMENT OF
ENERGY

Office of **ENERGY EFFICIENCY
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