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Benchmarking and Building Performance Standards Policy Toolkit

EPA's Benchmarking and Building Performance Standards Policy Toolkit and Support

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Toolkit Sections



- Section 1 - Building Energy Benchmarking and Transparency: Overview for State and Local Decision Makers
- Section 2 - Building Performance Standards: Overview for State and Local Decision Makers
- Section 3 - State and Local Government Coordination: Benchmarking and Building Performance Standards
- Section 4 - Data Access: A Fundamental Element for Benchmarking and Building Energy Performance Policies
 - Data Access: Sample Policy Language
 - Data Access: How to Compile and Deliver Aggregate Whole-Building Data

Building Performance Standards



A **building performance standard** is a policy that requires building owners to meet performance targets by actively improving their buildings over time.

- A BPS may be adopted by state or local governments and applied to existing commercial and multifamily buildings.
- Can be designed to improve performance for a variety of building aspects —including **energy use, water use, and emissions**—and send market signals to encourage investments in energy efficiency and other clean energy technologies and strategies.

ENERGY STAR Portfolio Manager



- The go-to tool for collecting energy and water use data from commercial and/or multifamily housing buildings.
- Fast facts:
 - The tool is completely cost-free to use.
 - Buildings can use the tool to track GHG emissions and energy, water, and waste costs.
 - 1-100 ENERGY STAR scores indicate a building's energy performance compared to similar buildings nationwide.
- Can be used to:
 - Check for possible errors using the data quality checker,
 - Set goals and track progress toward them,
 - Share or transfer properties,
 - Run custom and pre-populated reports, and
 - Apply for ENERGY STAR certification-EPA recognition for top performance.

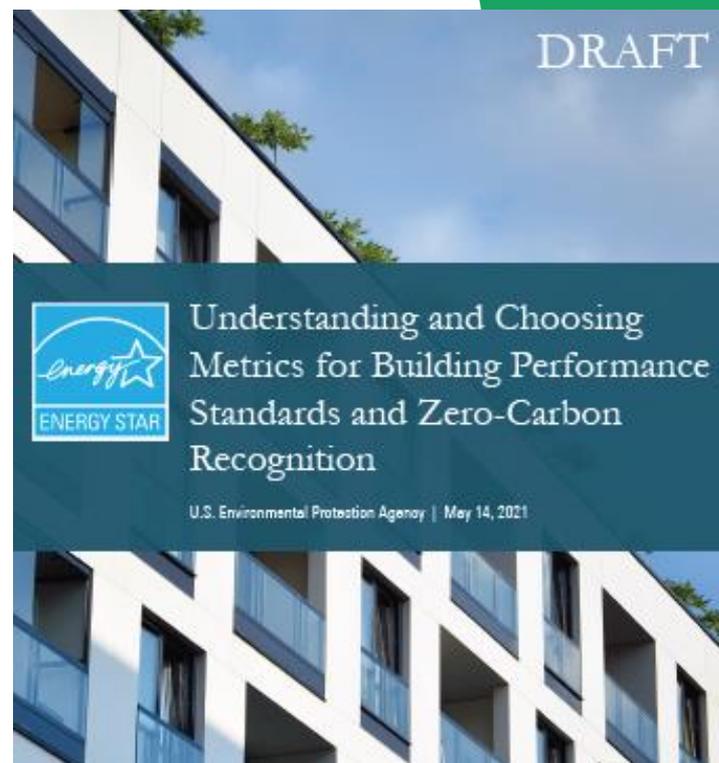


White Paper



https://www.energystar.gov/buildings/white_paper_metrics

- **Section 1:** Framework for Guiding Choice of Metrics for Building Performance Standards
- **Section 2:** Detailed Descriptions of Metrics
- **Section 3:** Supporting Analysis and Discussion
- **Section 4:** Complementary Policy: Zero-Carbon Recognition
- **Section 5:** Next Steps



To submit comments, visit www.surveymonkey.com/r/95pd792

Metrics Reviewed



Energy efficiency metrics

- Site energy use intensity (EUI) and variations
- Source EUI and variations
- ENERGY STAR score

Electrification metrics

- Percent of energy use that is from electricity
- Onsite greenhouse gas emissions

Renewable electricity metrics

- Onsite green power
- Total green power (on or offsite)

Greenhouse gas emissions metrics

- Total greenhouse gas emissions
- Onsite greenhouse gas emissions
- Time of use emissions

Grid balancing-related metrics

- Peak demand
- Coincident peak demand

Section 2 – BPS Design Considerations



Align and Establish Goals

- Alignment with decarbonization goals
- Performance metrics



Determine Covered Properties

- Property Types
- Exemptions and Accommodations



Consider Compliance Approaches

- Compliance Approaches
- Enforcement for Non-compliance



Provide Support to Building Owners

- Technical Support
- Funding Support



Establish Reporting Requirements

- Reporting Mechanism
- Access to Historical Data
- Changes to metrics in Portfolio Manager

Section 3 - Opportunities for State & Local Coordination



Understanding Roles



Establishing Relationships



Setting Policy Goals



Creating a Covered Buildings List



Administering Programs

- Reporting and compliance
- Flexibility for local governments
- Establishing fines
- Funding and staffing



Ensuring Access to Data

Technical Support for State and Local Governments



EPA is available to provide technical support to state and local governments across all phases of policy development and implementation, including:

- Direct support for using EPA's ENERGY STAR® Portfolio Manager® tool
- Share best practices across governments
- Provide access to helpful resources
- Offer technical assistance related to quantifying the benefits of energy efficiency
- Deliver other policy support as needed

Toolkit Sections



- Toolkit Homepage - <https://www.epa.gov/statelocalenergy/benchmarking-and-building-performance-standards-policy-toolkit>
- **Section 1: Building Energy Benchmarking and Transparency: Overview for State and Local Decision Makers**. Provides information about benchmarking and transparency policies, describes key considerations for success, and demonstrates how government leaders have used benchmarking to help enact a BPS.
- **Section 2: Building Performance Standards: Overview for State and Local Decision Makers**. Provides an overview of building performance standards and offers information on key decision points to consider when designing a BPS.
- **Section 3: State and Local Government Coordination: Benchmarking and Building Performance Standards**. Describes the varied roles that state and local decisions makers have in establishing existing building policies and opportunities to coordinate across jurisdictions.
- **Section 4: Data Access: A Fundamental Element for Benchmarking and Building Energy Performance Policies**. Describes the critical role utilities play in providing whole-building energy consumption data to enable compliance with benchmarking and BPS polices.
 - **Data Access: Sample Policy Language**. Fact sheet that offers sample policy language to support utility data access.
 - **Data Access: How to Compile and Deliver Aggregate Whole-Building Data**. Fact sheet that describes technical considerations that utilities must work through to successfully compile and deliver aggregate whole-building data.

Please be in touch!

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