

# OpenBlue

## Net Zero Buildings

# HB21-1286: Colorado Building Performance Standards Law



### What is the law about?

In June 2021, the General Assembly of Colorado passed the [Energy Performance for Buildings Bill](#), a building decarbonization policy. Part of the law created a BPS Task Force, to make recommendations on a statewide building performance standard (BPS) for Colorado's largest buildings. Those recommendations are published [here](#).

The State is still reviewing the final rules, and are due to submit them no later than June 1, 2023. The Colorado Energy Office (CEO) will notify building owners when the rules are finalized. Building owners do not need to take any action towards meeting the standard until the rules go into effect.

The Colorado BPS provides an opportunity for building owners to upgrade their building assets, slash their operating costs and contribute to the State's climate goals. It establishes sector-wide emission reduction targets for commercial, multifamily and public buildings 50,000 square feet and larger. Targets include a 7% reduction by 2026 and 20% by 2030 from a 2021 energy use baseline.

The Task Force has recommended two primary pathways for Colorado buildings to comply with the BPS:

1. Implementing energy efficiency measures that reduce the building's energy use intensity (EUI)
2. Electrification of 80% of a building's space and water heating

There are recommendations for three secondary pathways to compliance:

3. Renewable energy generation should count for partial credit towards BPS compliance.
4. The Air Quality Control Commission (AQCC) should develop the threshold of partial credit for partial electrification with high-efficiency electric equipment.
5. Final BPS rules should recognize participation in demand response as a strategy to reduce energy use and help buildings meet property type EUI targets.

For details, see the [Task Force Recommendations](#). The law gives the AQCC the power to make recommendations for EUI BPS targets for the period 2030 to 2050.

### What it means for you

- If your building is covered, you should already be tracking energy use; reporting deadlines are rapidly approaching.
- You should start to manage energy use now, to be prepared when the rules go into effect.
- The Colorado Energy Office will help building owners with reporting requirements by creating a database of buildings covered and owners required to comply, and by coordinating with local governments that have their own energy benchmarking, performance or reporting requirements.

## How we can help

Partner with Johnson Controls to develop an excellent sustainability and resiliency program to comply with Building Performance Standards laws. We'll build your business case to meet your needs, and we'll help balance the traditional conflict between cost savings and investment. We offer a wide assortment of building systems that can help you reduce your facility's emissions. We blend technical and operational expertise with our reputation for quality.

### Step 1: Assess your facility.

We look at current and anticipated use to understand present energy usage, plan for energy needs, and review indoor air quality. We also make sure all your systems are right sized for your facility, which is essential for efficient operation.

### Step 2: Help build your business case.

Our team develops models specific to your equipment and facility, giving you a clear picture of potential efficiency gains and lifecycle cost improvements. We draw on our industry know-how to incorporate additional opportunities to optimize performance.

### Step 3: Recommend next steps.

We lay out a step-by-step plan for you to modernize against your goals and budget. We give you a menu of options and recommendations that make sense for your facility, and we include a range of smart technologies, such as tools to support predictive maintenance.

### HVAC Equipment and Hydronic Systems

We offer the largest portfolio of HVAC equipment and controls in the world. With expertise in mechanical retrofitting existing systems, our team performs audits of the current equipment and identifies deficiencies that prevent you from meeting regulations and best practices in indoor air quality. From there our experts will design and recommend solutions to meet today's energy, decarbonization and healthy buildings initiatives.

### Building Automation Systems and Controls

Our next generation building automation systems make it possible to extend automated control to every building system from a single platform. We make everything from simple, configurable controls to highly programmable automation systems for entire facilities. Our systems allow you to improve control of your key systems and improve desired outcomes against your goals for indicators such as CO2, Energy Use Index (EUI), kWh, emissions intensity.

### Accessible Digital Tools

Our suite of tailored, AI-powered digital solutions optimize building performance through predictive maintenance, remote diagnostics, emission management, goal and targets, and more. Leverage our OpenBlue platform to integrate with Metasys and third-party BMS to deliver optimal building outcomes, ensuring compliance with building performance standards while also balancing comfort, air quality, costs and emissions.

### Water Usage Reduction

We supply the expertise and funding mechanisms to provide water and energy conservation solutions for businesses. By helping decrease water leakage and operational costs, we can reduce water consumption by up to 50 percent. Water heaters can be upgraded from fossil fuel fired to electric, or we can provide high efficiency or indirect options. Our experts are able to calculate the most effective ways to reduce water usage in sinks and toilets.

### Lighting

We partner with the world's premier lighting innovators to revolutionize interior and exterior lighting. Our experienced lighting engineers have designed and executed hundreds of millions of dollars in lighting projects around the world. By integrating the lighting systems to work in conjunction with existing building systems the result is a holistic system better suited for energy efficiency, convenience and security. From clinics to classrooms, these intelligent lighting systems provide advantages well beyond energy savings to help buildings run more efficiently.

## Your partner in sustainability and net zero

As leaders in sustainability and net zero, our approach brings together expertise with leading capability to deliver energy efficient outcomes through our building and infrastructure management services. Upon review of your goals and your facility, our team advises on all aspects of ESG and sustainability to provide a comprehensive roadmap of actions and solutions to meet the critical milestones.

## Ready to get started?

Contact your local Johnson Controls representative or visit [johnsoncontrols.com/BPS](https://johnsoncontrols.com/BPS)

