

OpenBlue

Healthy Buildings




A Philosophy In Action

When we build with intention and intelligence, a building becomes more than a structure. It becomes a place to learn, to grow, to celebrate and even to heal. To make this possible, we must invest – not just in buildings, but in Healthy Buildings. They form a framework that supports healthy people, healthy places and a healthy planet in tandem. To explore healthy building solutions at work, take a tour of the Main Street below.

Key  Healthy People  Healthy Places  Healthy Planet

Office Space

Keeping workers healthy and productive




-  AI-driven smart lighting and temperature controls optimize employee comfort and wellness, boost productivity and cut energy use.
-  Air-quality sensors both inside and outside collect and analyze data continuously, displaying it on a public dashboard.
-  Cloud-based software monitors systems, equipment and energy sources to predict consumption and suggest efficiency improvements.

32% of workers say better lighting would make them happier at work.¹

The most efficient federal buildings have cut operating costs by 23% since 2003.⁶

Government




Leading the way to wellness for all

-  Touchless entry and access minimizes person-to-surface contact to reduce the spread of pathogens.
-  Predictive maintenance helps keep facilities open and essential public services operating uninterrupted.
-  Sustainability reporting supports government transparency and encourages private enterprise to follow suit.

Students at poorly ventilated schools miss 16% more days due to respiratory symptoms.⁵

Dining and Retail




Building a healthier hustle and bustle

-  Sensors monitor supplies of hand sanitizer and masks for employees and customers.
-  Remote diagnostics identifies hidden mold and alerts property owners to take prompt action.
-  Smart metering assesses the efficiency of a busy restaurant or store at peak hours and suggests energy-saving improvements.

Mold begins to grow in untreated damp areas within 24 to 48 hours.³

Hospital




Supporting wellness at every level

-  In-room sensors alert clinicians when a patient is out of bed too often or for too long.
-  UV germicidal irradiation weakens airborne pathogens, lowering the incidence of hospital-acquired infections.
-  Predictive analytics helps a facility with myriad complicated systems protect its investments, save energy and reduce emissions over time.

UV-C units in patient rooms can reduce airborne pathogens by more than 40%.²

Large Public Venue

Safe gatherings in smart spaces

-  Thermal imaging at entrances screens event attendees to identify those with symptoms of illness.
-  Video monitoring systems (VMS) for access control and surveillance help identify potential dangers or threats.
-  Central Utility Plant (CUP) analyzes building systems and power sources, using predictive algorithms to reduce both costs and emissions.

82% of Americans support temperature screenings to protect public health.⁴

Education

Building a healthier future today

-  Ventilation methods focused on increased outdoor air circulation improve indoor air quality in gathering spaces like gyms and cafeterias.
-  Unified data analysis provides a comprehensive view of operations across a multi-building campus.
-  Tracking carbon emissions ensures compliance with sustainability regulations and established goals.

1. The Harsh Reality of UK Office Lighting, Staples, 2018.
2. American Journal of Infection Control, 2018.
3. U.S. Environmental Protection Agency, 2012.
4. FLIR/Harris Polls, July 2020.
5. Topol et al. Modeling Associations between Principals' Reported Indoor Environmental Quality and Students' Self-Reported Respiratory Health Outcomes Using GLMM and ZIP Models, 2016.
6. U.S. General Services Administration, as of 2019.