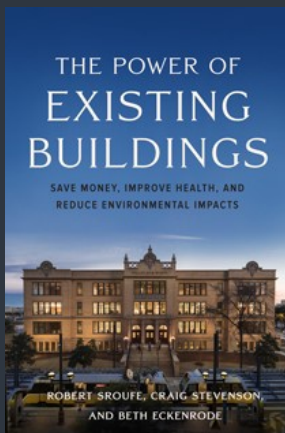


Company Overview

"High-performance buildings are key to achieving the UN's 2030 Agenda for Sustainable Development. Most of today's buildings will still be in use in 2050, and their energy performance must be managed. As shown in this timely book, the capability to meet the challenge exists today."

--SCOTT FOSTER,
Director, Sustainable
Energy, United Nations
Economic Commission
for Europe (UNECE)



AUROS Group, based in Pittsburgh, PA, is a pioneer in the delivery of Evidence-based Performance for the built environment. We believe that prescriptive based approaches to building sustainability, while helpful, are not enough to support building owner's and project teams. Project stakeholders expect buildings to operate as planned, while effectively returning on an owner's investment. Our flagship product, AUROS360, exists to drive building operations to Zero Energy and healthy indoor environmental quality for new construction and building renovations.

Our pledge, as we challenge old paradigms and inspire project stakeholders in the commercial building industry, is to ensure all partners and collaborators are enabled to do their best work using AUROS360 tools and technologies. A holistic, data-driven approach to building performance is the key to scaling aspirational sustainability goals for buildings, communities and cities.

Company Accomplishments

- "The Power of Existing Buildings: Save Money, Improve Health and Reduce Environmental Impacts", published 2019 by Island Press. Authors: Beth Eckenrode, Craig Stevenson and Dr. Robert Sroufe.
- Two case studies in the World Green Building Council's (World GBC) Library, showing "the world's most cutting edge examples of sustainable buildings." There are only 50 case studies from the United States currently in the World GBC library.
- AIA National lecture, May 2020, "Unleashing the Economic & Sustainability Power of Existing Buildings."
- RE: BUILD Cincinnati, Keynote Speaker, "Power of Existing Buildings"
- **Sustainability Project Pursuits:**

Passive House (16)	WELL Building (2)
RESET Air (8)	LEED (2)
Fitwel (2)	Enterprise Green Communities (3)
Green Globes (1)	EcoVillage (1)
- Frequent presenter at REALCOMM events, the largest intelligent-building industry association in the world.
- Frequent contributor to PI World, OSIsoft's global conference of data aggregators. AUROS Group is one of the only presenters representing the built environment's transparent access and control over building performance data.
- North American Passive House Network board president, strategic advisor and member of planning committee of the largest Passive House conference in the country.
- Two USTPO patents for our integrated dashboard technology that brings together a building's trended data with digital twin simulations to show if a building is performing in operations as designed.

AUROS Group Approach to Building Performance



Connecting building science to data science.

Delivers advanced performance in operations without paying a premium in the cost of construction.

AUROS Group supports building owners and developers to achieve ultra-low energy, zero carbon and healthy indoor air quality using technology, in the form of Building Science +



Credit: GBBN Architects

Building Science

The Natural Order of Sustainability

- ✓ Passive First Strategies to address low energy and healthy indoor air quality
- ✓ Site EUI over Source EUI
- ✓ Embodied Carbon Strategies
- ✓ Efficiency over Renewables

Data Science

Deliver access and control of all building performance data.

- ✓ Sustainability modeling and simulations to establish the building performance potential of new and existing buildings.

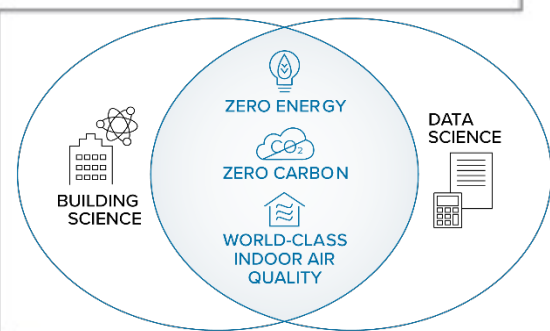
Building Science + Data Science enables Automated Outcomes



Automated Outcomes



- Single-Pane of Glass for all Operational Networks
- Monitoring-Based Commissioning
- Interrogation-Based Commissioning
- RESET Air Accredited Data Provider
- Automated Connectivity to Sustainability Certification Programs
- Automated Connectivity to Whole-Building Reporting Requirements



**Answers the question:
Did I Get What I Paid For?**



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Fifth and Dinwiddie- West is a new, 171-unit multi-family building that includes commercial and community spaces along with structured parking. The project has lofty sustainability goals and is pursuing Passive House (PHI), Fitwel and RESET Air certifications. AUROS Group is providing Owner's Performance Advocacy which includes all Passive House certification support, energy modeling & simulations, commissioning, measurement & verification strategies and cost estimating.



The renovation and expansion of the Carnegie Library of Pittsburgh's Carrick Branch was required to improve the use of the library. Carrick Library became the first library in the country to become Passive House (PHI) Certified in 2019. AUROS Group provided Passive House commissioning, energy model peer review, wall assemble detail review, and tradesperson training to ensure key elements of Passive House building science were properly executed. AUROS Group provided building envelope inspection and testing along with on-site support throughout the project.



Chatham College is the site of the new Rachel Carson EcoVillage in Pittsburgh, Pennsylvania. AUROS Group provides Owner's Performance Advocacy in the form of Passive House energy modeling, cost estimating, certification support services, building commissioning services and smart-building infrastructure support. The Rachel Carson EcoVillage is in conceptual development and is expected to advance to Schematic design soon.



North Negley Avenue is a deep renovation of a former synagogue in Pittsburgh, Pennsylvania. This 58,000 square foot renovation will provide 45-units of affordable housing. The project is in design development and is pursuing Passive House (PHIUS) certification. AUROS Group provides Passive House certification, commissioning, energy model peer review, wall assemble detail review, tradesperson training, and Enterprise Green Community certification.



Emerald Hills Retirement Residence is a new 57,924 square foot 52-unit affordable housing project on the site of an abandoned elementary school in Pittsburgh, Pennsylvania. The project is pursuing Passive House (PHIUS) certification and received its pre-certification approval. The project goal is to be zero energy. AUROS Group is providing broad project support including all Passive House certification support, including energy modeling, commissioning, and Enterprise Green Communities certification.