

Zero Energy, Smart Building Development



One Developer Makes His Mark on Equitable Development with Three Passive House Buildings

Fifth and Dinwiddie, Pittsburgh, PA

Repurposing a former public works building, sets the stage for the potential of this site in Pittsburgh's Uptown neighborhood. The renovated commercial building will be home to a job training center and co-working spaces offered to the community at reduced rates. The two buildings across the street will add 171 units of housing along with ground level retail spaces.



Credit: GBBN

Owner's Project Goals

The developer set very high building performance expectations using building science and data science. The goals, embedded in the Owner's Project Requirements, center on equity: social financial and environmental.

Metrics

- Site EUI of 14kBtu/SF/year to achieve Passive House Certification

Sustainability Programs

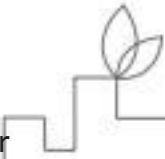
- Passive House certification
- RESET Air certification
- Fitwel certification

Photovoltaic Arrays

- Secures the path to zero energy

Smart Building Infrastructure

- Utilizing an independent data layer



Project Highlights

Prior to completing design, the Fifth and Dinwiddie East building had achieved Fitwel Design Certification, demonstrating a commitment to details and execution. As experts in building performance modeling and simulation, AUROS Group provided the design team the necessary building performance targets to deliver Passive House certification at the lowest possible cost. The developer had digital evidence of predicted performance prior to investing one dollar on construction costs.

The project has multiple advanced open-integrated building systems designed that will operate on one converged owner network with an independent data layer. Open-sourced technology allows more transparent pricing models and more control over the smart building infrastructure for the owner.

Due to the early involvement and full alignment of the project team, the project was able to attack aspirations without a premium to the cost of construction.

New Construction & Renovation

Three Building Multi-Use Site
250,000 square feet
\$60 million

Project Team

AUROS Group
GBBN
Rochester Passive House
Newcomb & Boyd

Project Reference

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