

Sustainable Affordable Housing: Saving Energy, Saving Lives

ACTION-Housing Inc.

March 21, 2016



ACTION-Housing has a 58 year history of developing high quality, well-managed affordable housing.



Placed in service in 2013, Mackey Lofts is a 45 Unit Low Income Housing Tax Credit building in Pittsburgh. Energy efficiency measures included geothermal wells for heating and cooling.

Residence at Wood Street, Downtown Pittsburgh



Residence at Wood Street – 258 SRO building originally built as a YMCA. Using expanded WAP funding in 2010, the building envelop was insulated and a more efficient heating system installed adding air conditioning and reducing annual costs by \$125,000.

McKeesport Downtown Housing



McKeesport Downtown housing was also built as a YMCA. Renovated in 2014 the 84-unit SRO building was designed to meet Passive House Standards and utilizes geothermal for heating and cooling. Energy bills were reduced by \$40,000 annually

McKeesport Downtown Housing – Infrared Imagery after Completion of Passive House Renovation

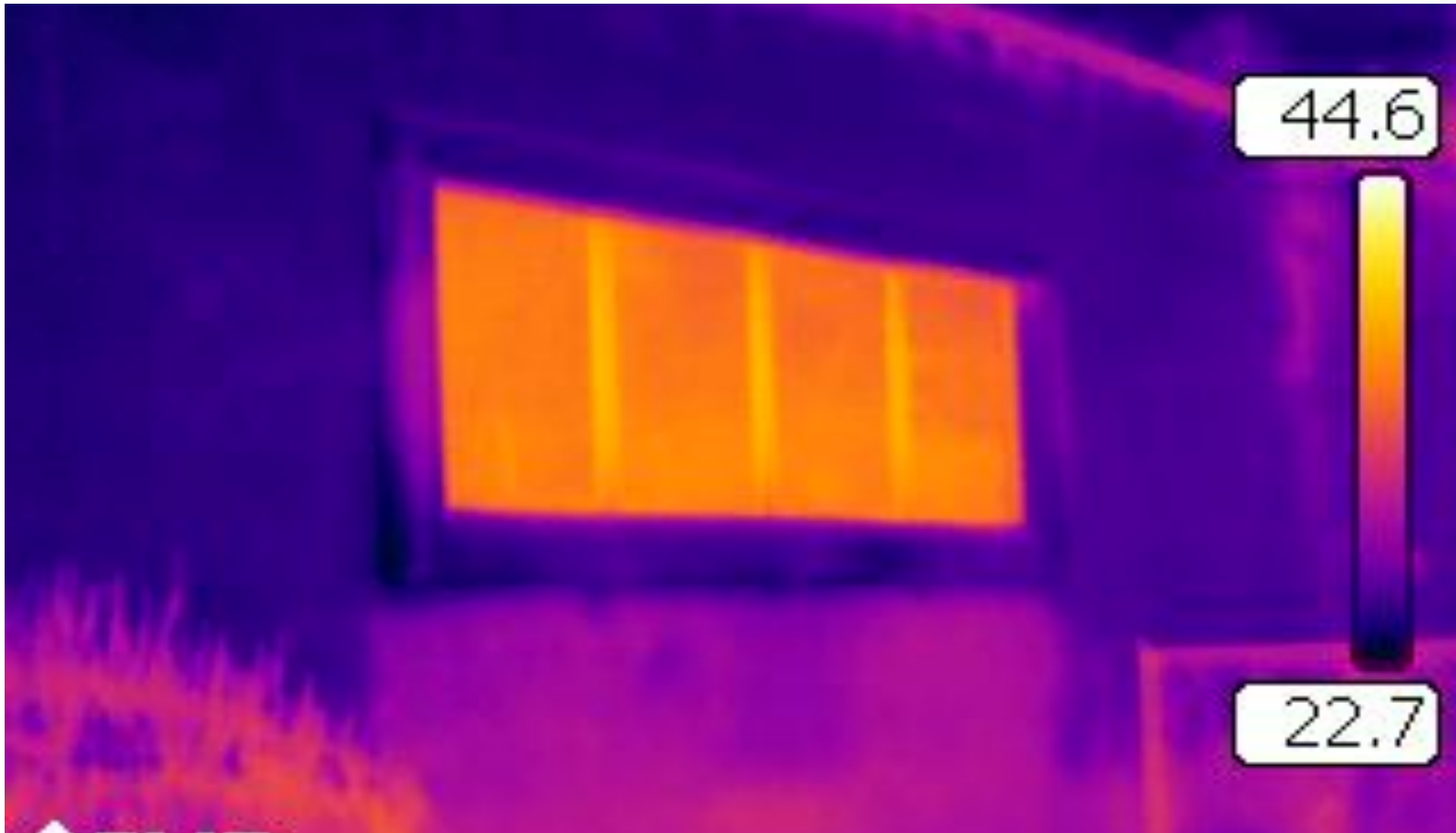


Hazelwood Center



Hazelwood Center, a former VFW, was renovated in 2014 for use by three non-profits including the Hazelwood branch of the Carnegie Library. The renovation was designed to Passive House standards.

Hazelwood Center



Uptown Lofts on Fifth



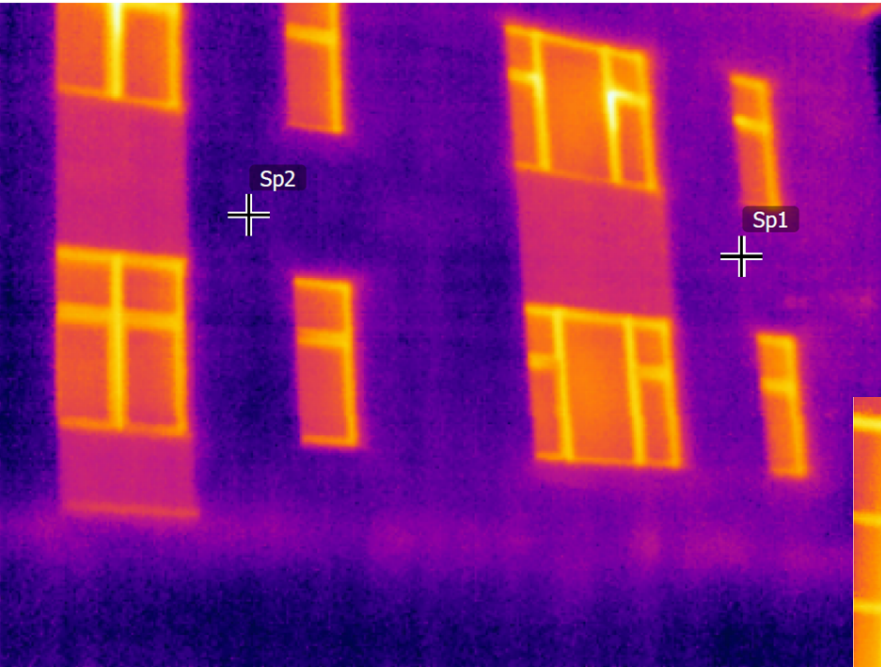
North Building – Passive House Standards

Uptown Lofts on Fifth, a 47 unit LIHTC project with a preference for Youth Aged out of Foster Care opened in 2015



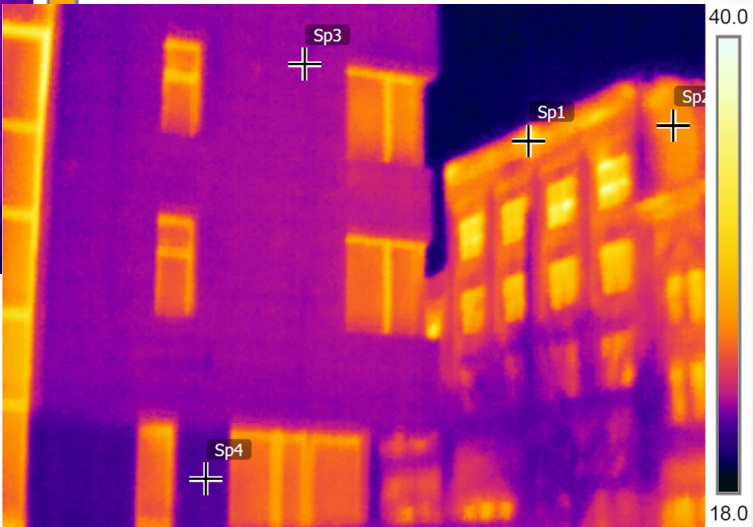
South Building – IECC Standards

Uptown Lofts on Fifth



North Building – Passive House Standards

Demonstration project looking at first cost and operational comparison between Passive House and 2012 International Energy Conservation Code.



South Building – IECC Standards

Uptown Lofts





CERTIFICATION

The Passive House Institute US Awards



The Designation of

PHIUS+ CERTIFIED PASSIVE HOUSE

PROJECT NAME: **Uptown Lofts on Fifth** 2015 Fifth Avenue, Pittsburgh, PA 15219
PROJECT OWNER: **Uptown Lofts on Fifth, L.P.**
CPHC: **Morgan Law & Jesse Thompson**
DATE: **June 9, 2015**

Executive Director

• TREATED FLOOR AREA	19672	ft ²
• ANNUAL HEAT DEMAND	4.67	kBTU/(ft ² ·yr)
• ANNUAL COOLING DEMAND	0.54	kBTU/(ft ² ·yr)
• SPECIFIC PRIMARY ENERGY DEMAND	36.3	kBTU/(ft ² ·yr)
• PRESSURIZATION TEST RESULTS	0.63	ACH ₅₀
• HEATING LOAD	3.84	BTU/(ft ² ·hr)
• COOLING LOAD	1.34	BTU/(ft ² ·hr)

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