



Owner: Buffalo Neighborhood Stabilization Company | Location: Buffalo, NY | Completion Date: Ongoing

Project Description

The Buffalo Neighborhood Stabilization Company Inc (BNSC), the housing development arm of PUSH Buffalo, is proposing to develop 30 units of housing on Buffalo’s West Side that is targeting certification with Passive House Institute US (PHIUS), and pursuing the NYSERDA Low Rise New Construction Program Tier III Net Zero certification, 2020 Enterprise Green Communities, and WELL Building Certification. By coordinating housing and sustainability work, West Side Homes addresses both human and ecosystem health, creates a resilient project that addresses future heat, precipitation, and drought events, and uses renewable energy sources to avoid increased greenhouse gas emissions. SCI will serve as the CPHC, and PHIUS+ Verifier on the project and has conducted all feasibility study and WUFI analysis to guide the design decision making process.

Targeted Certifications

- PHIUS+ 2018 & Source Zero
- NYSERDA Low Rise New Construction Program Tier III
- 2020 Enterprise Green Communities
- WELL Building Certification

Technical Details

Walls	Wood panelized construction, 2X6 cavity with R-20 dense pack cellulose. Utilizing 2.5” zip panels creating R-12.6 of continuous insulation totaling R-33 exterior wall, finished with LP Smartside.
Windows	Alpen Tyrol Triple Pane Casement Windows
Air Barrier	The exterior ZIP sheathing will create an enhanced air, water, moisture and thermal barrier.
Roof	R-30+ continuous insulation
Slab	Continuous EPS perimeter and underslab insulation
Heating/ Cooling	Ground Source Heat Pump
Ventilation	The ERV ventilation system has monitoring capabilities allowing tenants to track some aspects of indoor air quality.
Hot Water	Geothermal electric hot water with desuperheaters
Solar Electric	Roof-mounted Solar Photovoltaic systems owned by BNSC will produce an estimated 30,755 kWh/yr
Additional Features	Low carbon materials such as insulation and foam were considered during material selection process.