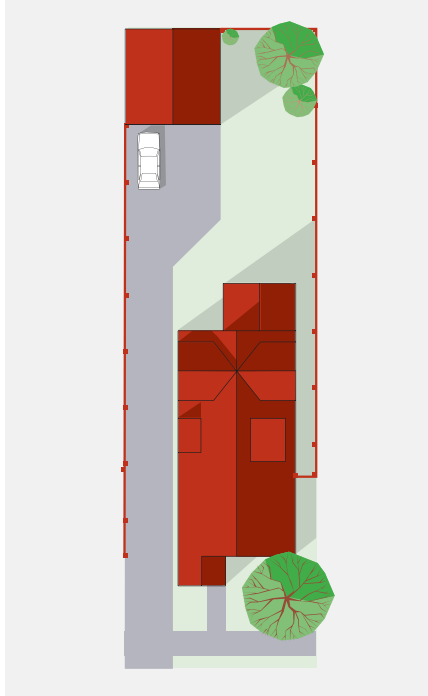
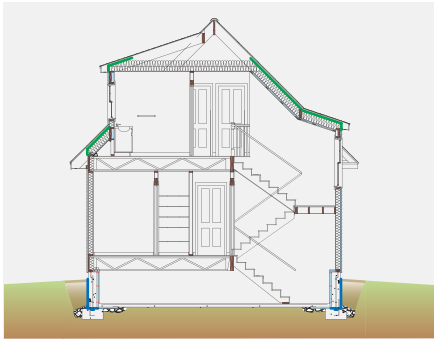
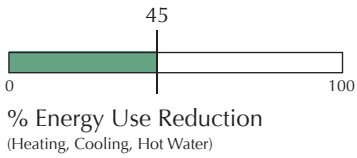




East 71st Street
Cleveland, OH
1999



Built in Cleveland's Slavic Village neighborhood, the GreenBuilt single-family home is larger than its front façade would suggest, with 2,200 square feet, four bedrooms plus loft and 2 ½ baths. With its long axis running east to west, the home's large south facing roof is designed to accommodate a future photovoltaic (PV) array that would provide electricity for the home and if generating more than needed, could send power back to the grid. Without the PV array, the home achieves a 45% energy reduction, relative to a comparable home built to code in 1999, due to the implementation of a high performance enclosure and high efficiency mechanical system. The mechanical system, comprised of a high efficiency hot water heater and air handler, both located in the conditioned crawlspace, provide both heat and hot water for the home. Super-insulated advanced framed walls, roof, and foundation make up the opaque element of the thermal enclosure while high performance double-hung windows make up the transparent element, not only insulating the home but also providing natural light and ventilation.



Photo courtesy of Dan Morrison