ReNEWW HOUSE
WHIRLPOOL CORPORATION’S LIVING LABORATORY

The first lived-in, fully retrofitted net zero energy, water and waste home. Along with Purdue University, we’re transforming a 1920’s bungalow into a world-class living laboratory and sustainable living showcase.

GAS
average kWh/day
Pre-Retrofit:(1) 126.3
Post-Retrofit: 0

ELECTRICITY
average kWh/day used
Pre-Retrofit:(1) 18.1
Post-Retrofit: 26.7(3)

Energy Reduction
WITHOUT SOLAR PANELS
81% Post-Retrofit

Energy Reduction
WITH SOLAR PANELS
94% Post-Retrofit

WATER
gallons per person/day
based on 2016 data

CITY WATER
RAIN WATER
TOTAL
GRAY WATER(4)

Pre-Retrofit 103.0 0 103.0 0
Post Retrofit 3.9 14.1 18.1 5.8

Energy Reduction WITHOUT SOLAR PANELS
81% Post-Retrofit

Energy Reduction WITH SOLAR PANELS
94% Post-Retrofit

City water + Rain water = REUSED AS Gray water from showers

21.8% total usage
1974.7 total gallons
3.9 gallons/person/day

78.2% total usage
7071.9 total gallons
14.1 gallons/person/day

31.9% total usage
2884.3 total gallons
5.8 gallons/person/day

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(1) - “Pre Retrofit” refers to the timeframe of Fall 2013-Fall 2014 during which the house was unmodified. “Post Retrofit” refers to all time since the retrofit was complete, or Fall 2014-2017
(2) - Energy reduction numbers are compared to un-retrofitted baseline for the house
(3) - While there has been a small increase in electricity consumption, gas usage has been completely eliminated
(4) - Gray water refers to lightly treated shower water that is suitable for reuse in toilets per NSF 350