

## LED Lighting Demonstration Project: Final Open House Held



**The LED in cabinet lighting discretely lights the shelving display surface in the kitchen of the Stillwater, NY test home. Total lighting cost savings in the first two months of data collection is around \$71 compared to a typical code built home using a mixture of 13 Watt CFL's and 60 Watt incandescent bulbs.**

The 100% LED lighting system installed in this Stillwater, NY home wowed future homeowners, builders and NYSERDA representatives during a daylong open house held on February 6<sup>th</sup>, 2016.

This particular home has 155 “bulbs” installed compared to the other four homes in the project that averaged 74 “bulbs” per house. This home is expected to use the most electricity of all of the homes in the study so the use of LED lighting is very important to curb an expensive lighting bill. The Lutron Caséta lighting control system was on full display at the home as well with the homeowners demonstrating the full capabilities of the system to guest all day long.

With the second month of lighting data collected expectations grow for a triple digit savings on lighting cost for the home over the course of one year. As a part of our LED Lighting Demonstration Project with NYSERDA, Newport worked with Belmonte Builders to build the certified ENERGY STAR Home.

The whole house lighting data collected for January shows the homes lighting consumption is expected to only cost \$10.71 (\$0.13 kWh) for the entire month. This is a decrease from the \$14.55 reported for the month of December. The LED bulbs in this house range from 3 to 19 Watts, an average wattage of 9.5 per bulb.

Total energy usage for lighting in the home was tabulated at 82,371 watts or 82.37 kWh for the month. This is a 26% decrease in watts consumed from the first month of data collection but was expected as the homeowners settled into the house. To put the results into perspective, a typical code built home (assuming 50% incandescent and 50% high efficacy bulbs) would have cost anywhere from \$70-\$97

(depending on bulb specs) to light the same space over the last two months.

Lighting consumption on this home will continue to be monitored on a monthly basis for seven more months with the final results to be summarized in a report for NYSERDA. Make sure you check back to see how the results may change over the course of time.



**A couple listens as Matt Evans (Newport Ventures) explains the savings that LED lighting has produced for the 5 project homes involved in the project.**

**The homeowner speaks with Pat Fitzgerald (NYSERDA) and his brother while they check out the LED lights during the open house.**

