

LEDs PERFORMING AS EXPECTED

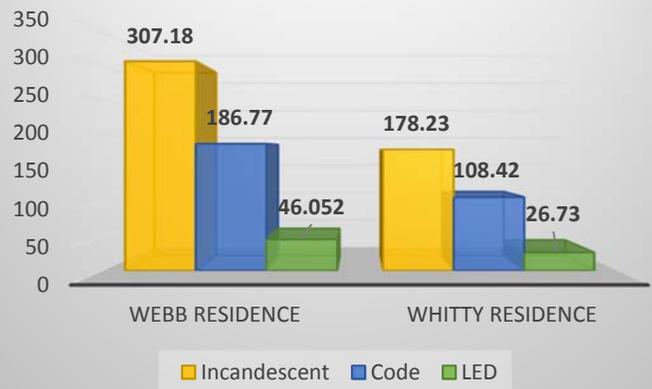
As part of our LED demonstration project, Newport has completed design, specification, and installation in 4 of the 5 homes. Each of these homes is equipped with a 100% lighting system, Lutron Caséta Wireless control system, and an energy monitoring system that shows real time energy usage for all the lighting in the home. The homes are located throughout the state of New York; one in New Paltz (Greenhill Contracting), one in Saratoga (Saratoga Builders), and two in the Rochester area (Fedyk Builders and Gerber Homes). The last home, being constructed by Belmonte Builders, will also be located in Saratoga. Two of the homes are now occupied by their new owners and we have begun the data collection process.

In New Paltz, the Webb residence, constructed by Greenhill Contracting is now into its sixth month of monitoring. Throughout the first 5 months, the home has used a total of 230 kWh and cost a total of \$29.93, an average of \$5.99 a month. Compared to a code built home (50% incandescent and 50% CFL), the LED lights in this home has reduced electricity consumption by more than 700 kWh of saved the Webb's \$91.46 on their lighting costs! Over the course of 1 year this would result in savings of \$219!

Now in its second month of data collection, the Whitty residence in Saratoga (Saratoga Builders) is producing similar results. During the month of March, the home used a total of 27 kWh for lighting and cost \$3.48 to operate. Again, compared to a code built home, the LEDs are saving 82 kWh and \$10.52 per month on their lighting! Over the 22 year life expectancy of most LEDs, the Whitty's would stand to save \$2,777 with their LED lights!

Beyond the energy savings and lower utility bills, the homeowners are very pleased with the quality and convenience of the lighting in their homes, especially in regards to the Lutron Caséta controls. According to Webb's, "We are loving the system. The app on our phone is especially useful and handy and we use it every day. The ability to dim so many of the lights is also a lovely feature. All in all, we couldn't be happier."

Average Monthly kWh Consumption Comparison



Average Monthly Cost Comparison



The charts above show how the LED lighting in the two homes compare to the estimated consumption and cost of the same home with other lighting systems. The yellow bar represents the estimated usage and cost for the home with 100% incandescent lighting. The blue bar represents a code built home, or 50% incandescent and 50% CFL.

The Whitty's expressed a similar sentiment. "This system rocks. It was extremely easy to install and program. As for the convenience, life changing. You approach leaving and coming home in a whole new manor. We have scenes set up for both and we never forget to turn a light off, or struggle to find a switch on the way in with our hands full. Going to bed has changed as well. We just get up from the couch, walk out of the room, brush our teeth and climb into bed and put on a reading scene and turn off the rest of the house, including the outdoor lighting, from the comfort of the bed, without having to walk around in the dark."

We will be continuing to update the status and results of the project as it moves forward. Two of the other homes in the project are complete and we are awaiting occupancy before beginning the monitoring process. The last home is currently being constructed and will likely begin data collection late summer or early fall. Please be sure to check back for updates and [contact us](#) if you have any questions or other interest in our project!

