



CASE STUDY

UCI-Campus Village
Irvine, California



NIAGARA®



UCI STUDENT HOUSING RETROFIT PILOT STUDY SHOWS LARGE SAVINGS WITHIN ONE YEAR OF INSTALLATION

Due to the success, Irvine Ranch Water District expanded the initiative district-wide.

20 BY 2020

In 2011, Irvine Ranch Water District (IRWD), the University of California at Irvine (UCI), and Niagara Conservation partnered together for a water conservation program that planned to install high-efficiency fixtures for Campus Village Apartments at the University of California Irvine. The goal was to impact conservation efforts at the university, but also validate technologies and methods that could be rolled out and successfully implemented within the IRWD to help them meet their targets of reducing the per capita water use 20% by 2020.

"Irvine Ranch Water District is committed to saving water and energy while helping our customers reduce their utility bills through sustainable practices," said Amy McNulty, Water Efficiency Manager for Irvine Ranch Water District. **"Partnering with UCI and Niagara to retrofit the Campus Village Apartments with ultra-high-efficient devices has been a great way to dramatically reduce water consumption in an area where efficient water use remains extremely important."**

THE PRODUCTS

Campus Village Apartments retrofitted 200 units with Ultra-High-Efficiency-Technology (UHET™) Water-Saving Kits from Niagara. Each UHET Kit consists of five high-

efficiency products that drastically reduce water and energy usage.

The UHET Kits installed included Niagara's EPA WaterSense® certified Original Stealth 0.8 GPF toilets, Earth® Massage 1.5 GPM showerheads, and 0.5 GPM kitchen and bathroom aerators.

With every flush, the Original Stealth 0.8 GPF toilet has a re-engineered flush that works better and wastes nothing. The showerhead and aerators have Niagara's Equiforce™ Technology, a pressure-compensating technology that guarantees a powerful, consistent flow rate regardless of available water pressure.

THE RESULTS

The project, which was completed in August 2011, was developed to help UCI meet its goal of reducing water consumption 15% below their 2007 baseline by 2014. One year after the installation, Campus Village saved 6.9 million gallons of water. By 2014, the project exceeded expectations and the apartment complex alone attributed to an average of over 8.4 million gallons saved annually for the university since 2007. The property reduced water usage by an average of nearly 25% and allowed them to get closer to reaching their ultimate goal.