ETwater a Jain Irrigation company

65%

TOTAL AVERAGE WATER AND COST SAVINGS

MISSISSIPPI-TENNESSEE REGION

EPA WATERSENSE

AN OPTIMIZED IRRIGATION PLAN—ETWATER.COM/PLAN

SMART IRRIGATION IS A HEALTHY CHOICE FOR MID-SOUTH HEALTHCARE NETWORK: Dramatic Reductions in Outdoor Water Use and Costs with Conversion to Smart Irrigation

December 2014—Patients want the best physicians, and for people who aren't feeling well, a mid-Southern U.S. hospital has also found that eco-friendly facilities play an important role in delivering high-quality care and treatment. The challenge for hospitals in a dynamically changing health care environment is balancing the front-end costs that often come at a premium for being a green business. The summer 2014 conversion at this mid-South hospital from standard to smart irrigation with the ETwater web-based service cut by half their outdoor watering costs within the first 60 days, becoming one of their most remarkable green successes, with bottom-line cost savings, multiple-ROI benefits and efficiencies for sustainable long-term operations.

The Etwater smart irrigation service was approved by the hospital for testing and its HermitCrab smart controllers (the only product of its kind on the market that can retrofit an existing standard irrigation controller within minutes to become an automated weather-based controller) rapidly deployed to assume the watering schedule of the entire site by June of 2014. The table of Etwater results for the five months July through November 2014 shows a substantial savings of over 5.5 million gallons of potable water. (The average area resident in the hospital's area uses 96 gallons per day.)

DIRECT ACCESS INTO THE IRRIGATION SYSTEM WHERE THERE WAS PREVIOUSLY ONLY MANUAL ESTIMATES AND EQUIPMENT.

	VOLUME OF WATER (GALS/MO)					
	July	August	September	October	November	Totals
2011–13 Historical Average (Pre ET Water)	1,519,188	1,707,684	2,047,276	1,840,080	1,383,800	8,498,028
2014 Actual	735,284	354,552	1,001,572	559,504	323,884	2,974,796
% Net Savings	52%	79%	51%	70%	76%	65%

Tracked through independent irrigation meters, and allowing for seasonality that includes a traditional shutdown of all irrigation January through April annually, the hospital is on track for cutting in excess of 60% their average historical water usage average. Their outdoor water bill has consequently been more than halved for a significant net savings on its expense over prior years.

"ETwater gives the hospital a direct access into their irrigation system where they previously had to rely on manual estimates and equipment. They now have visibility and a wealth of insights into their water use as never had previously," said Lee M. Williams, SVP Product and Operations, ETwater. "With the nature of severe storms they routinely experience in July and August in their region, weather-based smart irrigation and variability in the amount of water applied based on what the landscape actually needs at a given time is the reason they've seen considerable water savings in particular for those months this year. The ETwater automatic suspension for rain forecast pre-empted potential damages to the grounds and facilities from overwatering."

The technology solution for irrigation management the hospital found in ETwater is enabling the greater realization of their optimized irrigation plan through a suite of services that will manage improvements in the irrigation design, with the ability to rollout infrastructure improvements through centralized control of the site, accessible from any computer, Smartphone or tablet. Because the irrigation controllers were located across considerable physical distances, ET water was used to perform a mass change of the entire property's watering schedules at once, including customizations as necessary to meet the specific water characteristics of the various plant types, trees and turf found on the hospital's landscape.

A simulation program within ETwater is now being used to model alternate landscape scenarios, which are being run in side-by-side comparison to the current watering schedule settings for ongoing performance enhancement and discovery. The hospital now has reason for healthy expectations after a substantial first year of future progress they'll be making in water conservation through smart irrigation.