

# WATER CONSERVATION & IRRIGATION EFFICIENCY

**Conserving Water. Sustaining Brands.** The demand for fresh water has doubled over the past 50 years—it's more precious now than ever. EMCOR Facilities Services (EFS) helps customers achieve their water conservation goals, while keeping their brand images pristine. For businesses, water efficiency isn't just playing a major role in reducing cost; it's also having a much greater impact on a company's brand perception.

## Why EFS?

- Expertise in every region and climate across the U.S.
- Visibility of spend to identify areas needing improvement
- Water-efficient irrigation systems
- New installs or retrofits
- Cost savings realized quickly
- "Xeric" landscaping options
- Compliance issues and risk lessened
- Consolidated services under a single 4-season plan
- Reconcile just one invoice, not several



### **Achieve up to 85% Efficiency.**

The average irrigation system is only about 50% efficient. An EFS irrigation-efficiency program can increase that to nearly 85%.

### **Centrally Controlled Solutions.**

**Nozzle Retrofits:** Retrofitted nozzles use up to 33% less water than traditional spray nozzles. This solution is typically the most affordable and creates the biggest return on investment. Head bodies can cover areas anywhere from four to thirty feet.

**Weather Controller:** EFS professionals tap into weather stations that monitor the elements at customer sites 24/7/365, and calculate moisture lost from plants based on temperature, wind conditions, humidity, precipitation, and solar exposure. EFS utilizes small, mountable, self-contained fixtures that gather weather data for ET (evapotranspiration) calculations in the controller. EFS professionals use wireless technology and adjustable rain gauges to ensure all "free" precipitation is captured.

**Integrated Flow Sensor:** With special flow sensors, EFS can detect and measure the water movement in irrigation systems. Sensors make it easy to catch (and alert customers to) a broken head, pipe, or stuck valve—all of which waste staggering amounts of water.

### **Maximum Efficiency. Maximum Savings.**

According to the Carbon Disclosure Project's (CDP) Water Disclosure Report, roughly 40% of companies said they have experienced water-related risks in the last five years. With a relatively small investment, EFS customers can conserve more water through irrigation efficiency. By working with EFS professionals who understand how to leverage maximum efficiency from customers' current systems, we can help craft a cost-effective solution to help dramatically reduce water consumption.

### **Critical Steps to Water Conservation**

- Eliminate run-off from impenetrable surfaces
- Minimize over-spray outside the landscape
- Ensure matched precipitation rates in each hydrozone
- Discover and manage waste with technology
- Apply water with greater uniformity
- Resist distortion of uniformity from wind
- Adjust watering frequently to match the current weather

### **Smarter Irrigation Keeps the Savings Flowing.**

*EFS helps save customers serious money with up to 50% more efficient, sensor-triggered sprinkler heads.*

## Large Pharmacy Retailer Saves Over 30% on Water Cost.

***Problem:** A national pharmacy retailer with over 7,700 locations needed to improve their existing irrigation systems. Their goal was to reduce water usage enough to realize a noticeable cost savings.*

***Solution:** EFS implemented a comprehensive water-efficiency program at 180+ sites, incorporating several innovative solutions. EFS installed controllers that adjusted based on weather conditions at each site. New sensors alerted the customer to problems in real time, and new nozzles with highly uniform, multi-stream rotating technology helped to ensure ultra-efficiency. **In the end, the customer saved over 30% on water cost versus the prior year.***

# We Know Facilities Inside and Out