

**Water is a commodity too precious to waste** – fact is, demand for fresh water has DOUBLED over the past 50 years according to a UNEP/GRID-Arendal report. It's time to be smarter about water usage, and water efficiency is playing a greater role in significantly impacting a company's brand image...and bottom line.



### Why USM? An Overview.

- ▶ Expertise in every region, every climate
- ▶ Water-efficient irrigation systems
- ▶ New installs or retrofits
- ▶ Cost savings realized quickly
- ▶ "Xeric" landscaping options
- ▶ Consolidated services under a single 4-season plan
- ▶ Reconcile just one invoice
- ▶ Visibility of spend to identify areas needing improvement
- ▶ Compliance issues and risk mitigation alleviated

#### ▶ Ripple Effect

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, great strides can be made in water conservation through irrigation efficiency – start by working with professionals who understand how to squeeze every drop of efficiency from your current systems, and how to craft a cost-effective solution to help you dramatically reduce your water consumption.

#### ▶ Critical Steps to Water Conservation

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

#### ▶ USM's Centrally-Controlled Solution

**Nozzle Retrofits:** The most affordable solution with the biggest return, retrofitting existing spray head bodies not only covers areas from four to 30 feet, this approach consumes 33% less water than traditional spray nozzles.

**Weather Controller:** We tap into weather stations that monitor the elements at your sites 24/7/365 and calculate moisture lost from plants based on:

- Temperature
- Humidity
- Solar Exposure
- Wind Conditions
- Precipitation

We also utilize small, mountable, self-contained fixtures that gather weather data for ET calculation in the controller. Precise readings make all the difference – we use wireless technology and adjustable rain gauges to ensure all "free" precipitation is captured.

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

#### ▶ It's Time to Achieve 85% Efficiency

The average irrigation system is only about 50% efficient. A USM irrigation efficiency program can increase that to nearly 85% – and adjustments due to weather can easily save another 15% on water. Dramatic improvement is the rule, NOT the exception.

### Smarter irrigation keeps the savings flowing

- ▶ We're saving our clients serious money with 50% more efficient sensor-triggered sprinkler heads

## **A sprinkling of good news.**

USM approached a national pharmacy retailer with over 7,700 locations to improve their existing irrigation systems. The goal was to reduce water usage enough to realize a noticeable cost savings.

Knowing that USM specializes in smart and water-efficient systems, the client agreed to embark on a program at 180+ sites, and was surprised at the depth of viable options available for smarter water usage.

With USM's help, the client projected a 20% water savings based upon our proposed solution of using controllers that could adjust based upon the actual weather conditions at each site, sensors that could alert the client to problems in real-time, and nozzles with highly uniform, multi stream rotating technology that promised ultra efficiency.

The bottom line: the client's actual savings were more than 30%, significantly exceeding their projected water savings.

# **We Know Maintenance Inside and Out**



**USM**

**An EMCOR Company**