

CONSERVATION MOTIVATION

LMP Landscape
Maintenance
Professionals, Inc.SM

Smart Watering

WaterSense labeled irrigation controllers, which act like a thermostat for your sprinkler system, use local weather and landscape conditions to tailor watering schedules to actual conditions on the site. Instead of irrigating using a controller with a clock and a preset schedule, WaterSense labeled controllers allow watering schedules to better match plants' water needs. With proper installation, programming, and maintenance, homeowners and businesses can use WaterSense labeled controllers instead of standard clock-timer controllers on their existing systems, and no longer worry about wasted water.

Anatomy of a Water-Efficient Commercial Irrigation System

Sprays

Pressure Regulation
High Efficiency Nozzles
Check Valve Emitters

Smart Monitoring

ET Based Scheduling
Flow Management
Flow Monitoring Detection

Sub-Service Driplines

Less evaporative loss
Increased watering uniformity
No damage to fences or trees
Less water run-off

Valves

Control and Regulate the amount of water that each watering zone receives

Pump Stations

Designed to pressurize water from supply sources such as ponds, wells, lakes, ravines and storage tanks and direct it to irrigation systems

Drip Lines

Direct to Plant Root Watering with high efficiency nozzles
When properly designed, drip can be the most efficient method of irrigation. But when installed incorrectly, drip can use as much water as ordinary sprinklers, if not more.

Rotors

Pressure Regulation
High Efficiency Nozzles
Check Valve Emitters



Water Application Efficiency indicates how well a system is providing water to the plant's root system. **Irrigation Application Efficiency** looks at how much of the water delivered to an area is beneficially used. **Using proper irrigation system design, installation management and maintenance practices provides a multitude of benefits.**

The Bells & Whistles of Smart Watering

Heads & Rotors

Heads and rotors are an integral part of the irrigation system and should be changed as they wear out over time. The newer versions have the ability to reduce water usage while increasing uniformity.

Typical Nozzles – Uneven Watering

With typical nozzles, part of the lawn may not have enough water and other parts may be over-watered. A large portion of water may be lost to evaporation/misting, and over-spray.

High-efficiency nozzles – Even Watering

High-efficiency nozzles provide better coverage. Better coverage means shorter zone run-times while keeping grass healthy. Shorter run-times means you will save up to 25%+ water vs. typical nozzles. High-efficiency nozzles are also engineered to produce large water droplets to reduce wind drift.

Smart Monitoring.

By using a central control system that continuously monitors your system, you'll receive real-time alerts if there's ever a problem. This allows you to address issues like broken heads or damaged lines right away, without hours of wasted water.

Weather-based controllers

Weather-based controllers, (ET) controllers, use local weather data to adjust irrigation schedules. Evapotranspiration (ET) is the combination of evaporation from the soil surface and transpiration by plant materials.

Communities save on average 30-60% of water usage, improve plant health and beauty, eliminate runoff, and put an end to watering worries.

Soil-based controllers

Soil moisture-based irrigation controllers (SMS) are one option to help achieve water-efficient irrigation scheduling. By detecting the amount of moisture in the ground beneath the landscape, SMSs override scheduled irrigation when plants don't need water, helping reduce water waste and promote plant health.



Pressure Compensating Point-Source Emitters.

Installing point-source emitters at the source reduces water waste due to unregulated flow. If distribution tubing is inadvertently damaged, unregulated flow can occur if the point-source emitter is located at the desired emission point.

Watering Only Things That Grow.

Drip irrigation prevents weeds and encourages healthier plants by watering each plant's root zone, eliminating overspray and evaporation. This also keeps water off foliage, so fungi cannot form.

Slow the Flow.

Water lines, valves, fittings, spray heads and rotors are common areas where sprinkler systems will have leaks. For example, if 1 cup of water is leaking per minute, it can result in a water waste of over 19,000 gallons over the course of a year.

Water can puddle or pool around heads installed at the bottom of slopes or hills, causing soggy areas. Installing check valve emitters helps prevent drainage issues eliminating erosion and runoff.

The Benefits of Water Efficiency

Properties managed with a flow sensor averaged 35% savings. As part of a two-year study, historical water usage was compared on eight properties to water usage after a flow sensor was installed. By installing a flow sensor and a compatible flow-sensing controller, you can quickly identify leaks, shut down damaged areas and prevent costly flooding to your property. Plus, you can monitor your water efficiency over time.

Conserves water—prevents irrigation after recent rain events.

Saves money—reduces utility bills and lawn maintenance costs by interrupting the irrigation system after adequate rainfall.

Reduces wear on the irrigation system because the system runs only when necessary.

Reduces disease and weed pressure by eliminating unnecessary irrigation events.

Helps protect surface and groundwater by reducing the runoff and deep percolation that carries pollutants, such as fertilizers and pesticides, into storm drains and groundwater.



What are the benefits for Communities & Property Managers?

Better understanding of water consumption using intelligent monitoring

Adjustable flow and time thresholds, set according to typical water usage

Automatic water shut-off via a valve in the event that a leak is detected

Remote valve control via the Flow Reporter web app

Text message and/or email alerts direct to your connected device if thresholds are exceeded

Monitors real-time, daily and monthly consumption, to help users improve water efficiency, identify problems and save money on bills More effectively manage water usage while improving the level of service you provide to communities.

Prepare For The Future Of Water Pricing

One-third of the U.S. now pays more for water than electricity. Water rates are continuing to rise and water is generally a top operation cost.

The cost of water is rising faster than all other utility costs. Those rates will continue to rise to pay for infrastructure improvements.

A smart irrigation controller can help you get ahead of the water cost curve and help the planet by conserving your water resources.



Southwest Florida Management District

INCENTIVE PROGRAMS



Water Incentives Supporting Efficiency

The Water Incentives Supporting Efficiency (WISE) program provides a cost share up to 50 percent reimbursement to support water conservation projects.

Cost-share reimbursements of up to \$20,000 are available for water conservation projects that improve water use efficiency and help protect the region's water resources. Funds are available for projects throughout the District. Applications will be accepted year-round until all project year funds are awarded.

WISE was developed as an alternative funding opportunity for nonagricultural water users that do not typically take part in the District's Cooperative Funding Initiative (CFI).

The District is offering funds for a wide variety of water-savings items. Other items not listed here could be still be eligible for funding pending District approval. In addition to the hardware components, the necessary labor, installation, and design costs are eligible expenses when a third party or contractor is used. Indoor plumbing fixtures have caps on the maximum reimbursable amount per item. Eligible items are shown below:

1. Soil moisture sensors or equivalent technology
2. Weather stations
3. Rainwater harvest cisterns/equipment
4. Irrigation conversions (from high volume spray to low volume micro)
5. Smart irrigation controllers
6. Irrigation evaluations



Florida Water Star

Florida Water Star is a voluntary certification program designed to increase water efficiency inside the home and in landscapes and irrigation systems for new residential and commercial construction and existing home renovation. While many certification programs provide general guidelines for water efficiency, Florida Water Star specifically addresses uses relevant to Florida. Following Florida Water Star criteria in new and existing buildings will help sustain the area's water resources for years to come.

Certification programs ensure that products meet a certain level of quality or performance. Many important programs have helped raise the bar for resource efficiency in buildings and development. The Florida Water Star program complements existing green programs but provides criteria specifically designed for water efficiency in Florida.

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Communities with well-maintained green spaces and outdoor amenities are the ones that attract the most home buyers and generate the best resale values. With irrigation being one the most visible forms of water use, it is usually the first to be regulated during a drought or water shortage. When demand outpaces supply water prices increase and water use is restricted.

We are committed to the role that we play in our community and communities that we serve.

Water Conservation



Energy Efficiency



Financial Sustainability



Recycling & Composting



LMP's focus is on developing partnerships with property managers & community board members so that we can offer you the best. The equipment you use in your smart irrigation system is as vital as the company you hire to manage it.

LMP is a certified irrigation contractor and equipped to help you navigate irrigation conservation. Contact us today to learn more about how LMP can improve water management on your property.

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