



Sustainability in Facilities Management

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About Old Dominion

- Old Dominion University
 - State-assisted, doctoral research institution
- Locations
 - Main campus in Norfolk, Virginia
 - situated on more than 188 acres
 - bounded on one side by the Elizabeth River and on another side by the Lafayette River
 - Northern section of the campus has shaded brick walkways and stately buildings
 - Southern end of the campus features newer academic buildings which line an eight-acre lawn
 - University operates centers in Northern Virginia, Virginia Beach, Tri-Cities and on the Peninsula.



Sustainability Initiatives

- The Facilities Management at Old Dominion University working to promote sustainability vision:
 - Minimize ecological foot print
 - Become a leader with other higher education institutions
- Outdoor & water-related sustainability initiatives
 - Sustainable landscaping
 - Smart irrigation
 - Indoor water efficiencies
 - Rain catchment & underground water storage
 - Waste management & awareness



Sustainable Landscaping Practices

- Landscaping around low water requirements
 - Low maintenance, low water, plant pallet that is used for all landscape projects.
 - Bermuda sod used widely
 - Can survive during the drought months
 - Go dormant in extreme drought but recover once there is rainfall
 - Generally takes two years of irrigation to establish
 - Low water requirements for Established Plants
- Extensive mulching and related sustainable landscaping practices





Why Smart Irrigation?

- Need Smart Irrigation that can minimize water and operational requirements
 - Flexible, controllable irrigation systems that are easy to use and manage
 - Based on weather system that replaces water lost through evaporation specific to a zone and landscape type
 - Rain gauges that keep system off when there is adequate rain fall



The proven leader in smart water management.

- Selected WeatherTRAK by HydroPoint Data Systems
 - Leading provider of Smart Water Management systems
 - Chosen based off four criteria: **Technology, Intellectual Property, Team Efficiency** and **Market Potential**



Smart Irrigation: The Solution

- WeatherTRAK ET Pro2 Central
 - Installed 37 controllers in Norfolk, Portsmouth, Virginia Beach
- How it Works
 - Zones through out Grounds are established with the controller and scheduling engine
 - HydroPoint Climate IQ Center delivers weather data to the controller
 - WeatherTRAK ET Everywhere automatically schedules irrigation based on smart evapotranspiration (ET) to address landscape needs and local weather conditions
- WeatherTRAK.net
 - Centralize tool that shows visibility into the whole system
 - No standalone PC - all information maintained in the cloud





Achieving Operating Efficiencies

WeatherTRAK®
Smart Irrigation. Made simple.™

Home | Controller List | Manage | Program | Manual | Alerts | Reports | Water Budgeting | Preferences

Friday, October 05, 2012 | Hello, Patricia King | Sign Out | Help

Account Summary ■ 37 Total Controllers | ■ 8 Active Alerts

Controller Status Summary

Status	Count
Manual Irrigation	0
Paused	0
Off	1
Shut-down	0
Offline	2

Alert Categories Summary (4 Controllers Affected)

Color	Category	Major Alerts	Total Alerts
Blue	System	5	5
Orange	Comm.	3	3
Red	Program	0	0
Dark Blue	Account	0	0

Total Major Alerts: 8
Total Active Alerts: 8

Major Alerts ■ 8 Major Alerts

Show filtering item Yes No | Clear filters | Export To:

Issues	Alert Date (PST)	Account	Site	Controller	Serial Number	Duration
Valve Short	Tuesday, August 28, 2012	Old Dominion University	Norfolk	ODU-Williamsburg Lawn	07010469	5 weeks
Hardware	Wednesday, August 17, 2011	Old Dominion University	Norfolk	ODU-Rogers Hall	07010430	14 months
Controller Off	Saturday, August	Old Dominion		ODU-	07000445	14 months

- Operational efficiency
 - Able to manage the system from the internet or smart phones, minimize travel time
 - Customizable alerts



WeatherTRAK Savings on Water & Water-Related Costs

- **Plant Management**
 - Eliminates landscape over/under watering, increasing plant health
- **Risks & Damage**
 - Reduce hardscape damage from overwatering
 - Lower slip/fall damage from wet areas
- **Sustainability Impacts**
 - Reduces water runoff that would enter the urban storm drain system
 - Reduces irrigation water consumption