
Smart Irrigation Watering Techniques



Case Study by Affinity Irrigation INC.

Smart Irrigation Watering Techniques

Created in partnership with industry leaders, suppliers and specialists, Affinity Irrigation has arranged this case study to advise users on how to employ modern irrigation technology with the intention of saving resources.

It is our goal to save our clients over 100 million gallons of water with smart irrigation systems this year.





Affinity Irrigation stands out as the premier choice for irrigation contracting, renowned for its precision, innovation, and client satisfaction.

Specializing in customized solutions, Affinity integrates cutting-edge technology and eco-friendly practices to create efficient systems for commercial landscapes.

With a focus on reliability and attention to detail, Affinity ensures every project is executed with expertise and care, making us the go-to partner for quality and sustainability in irrigation.

— How much water do you
think your irrigation system
uses?

VS.

**How much your landscape
actually *requires?***

Overuse by up to 50%!

Implementing smart irrigation systems across the GTA could save the equivalent of hundreds of thousands of Olympic-sized pools' worth of wasted water.



Approx. \$100 million dollars annually.



Saving on budget?

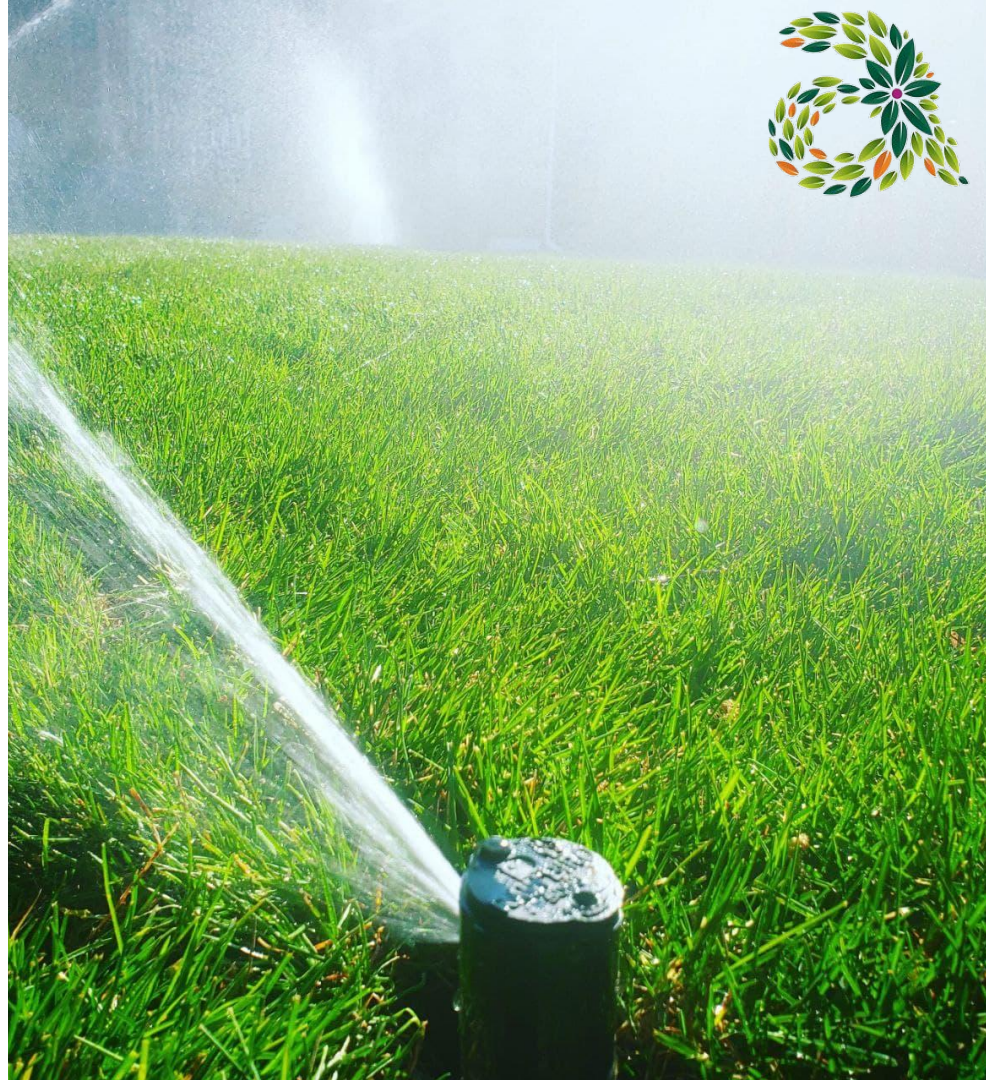
**Let our system do it
for you.**

Our smart irrigation watering techniques can save your building up to **50% water usage** on a recurring yearly basis.

This is equivalent to nearly **\$5,000-\$80,000** per year depending on the size of your property.

The best part...

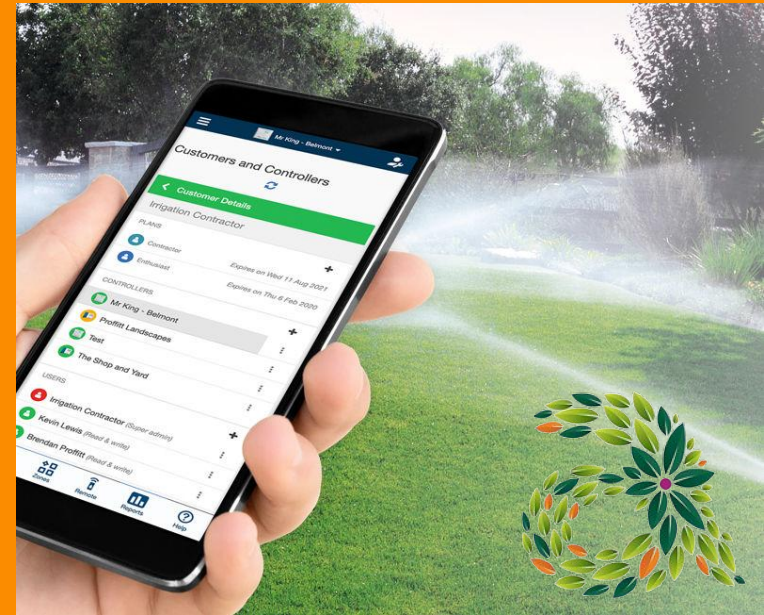
The smart irrigation system will pay itself off **in the first year.**



Smart Irrigation Watering Techniques

Explore our smart techniques for sustainable landscapes:

- 1) Watering Delays
- 2) Predictive Watering
- 3) Advanced Scheduling
- 4) Flow Meter Metrics
- 5) Fault Detection
- 6) Leak Detection
- 7) WI-FI Connectivity
- 8) Remote System Management
- 9) Weather Station Access
- 10) High-Efficiency Emitters

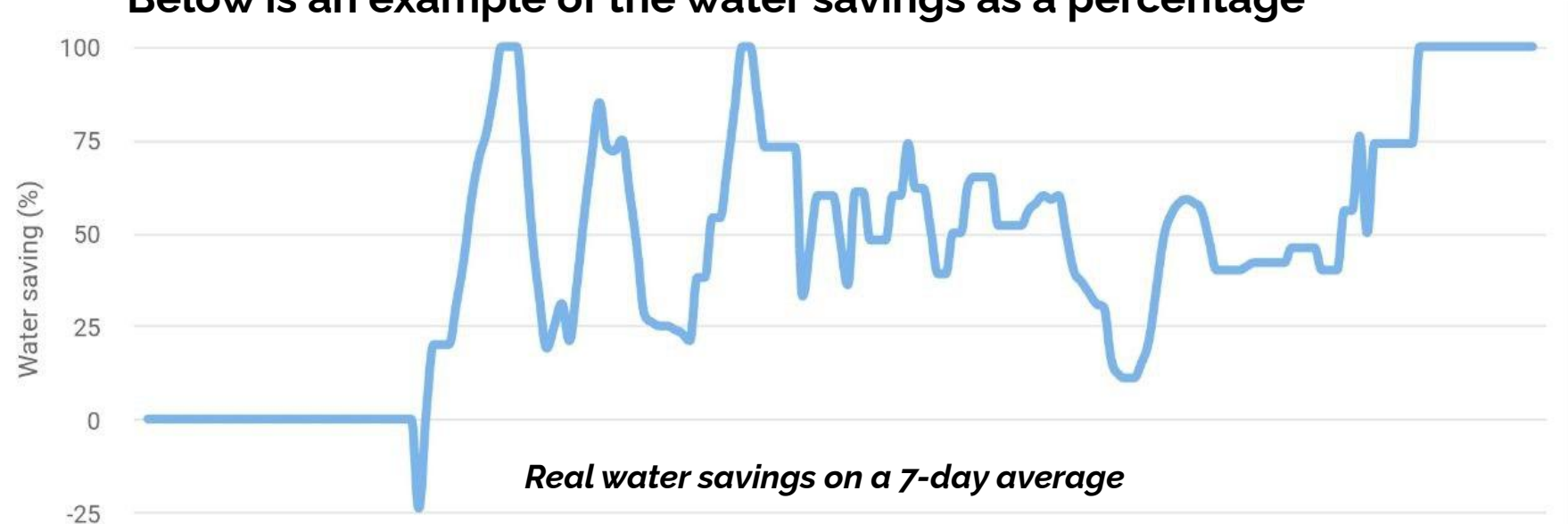




— Meet Humber Shared Facilities (HSF).

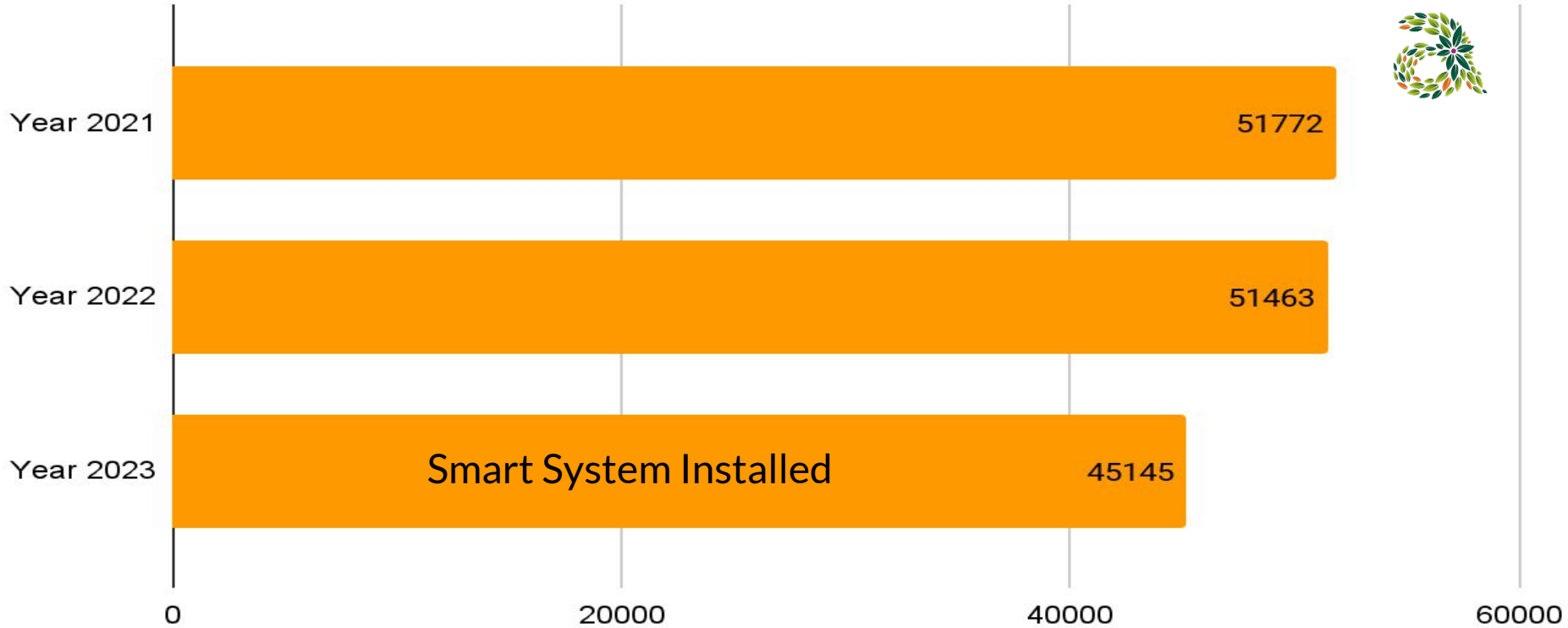
- Cost of \$1,500 per day in water usage to operate
- Saved the Shared Facilities over \$75,000 in watering costs
- Entire cost of installation covered by savings in the first year

Below is an example of the water savings as a percentage



These savings were confirmed by the city as displayed on the following slide.

Total Water Consumption at Building 1 at HSF (in cubic meters)

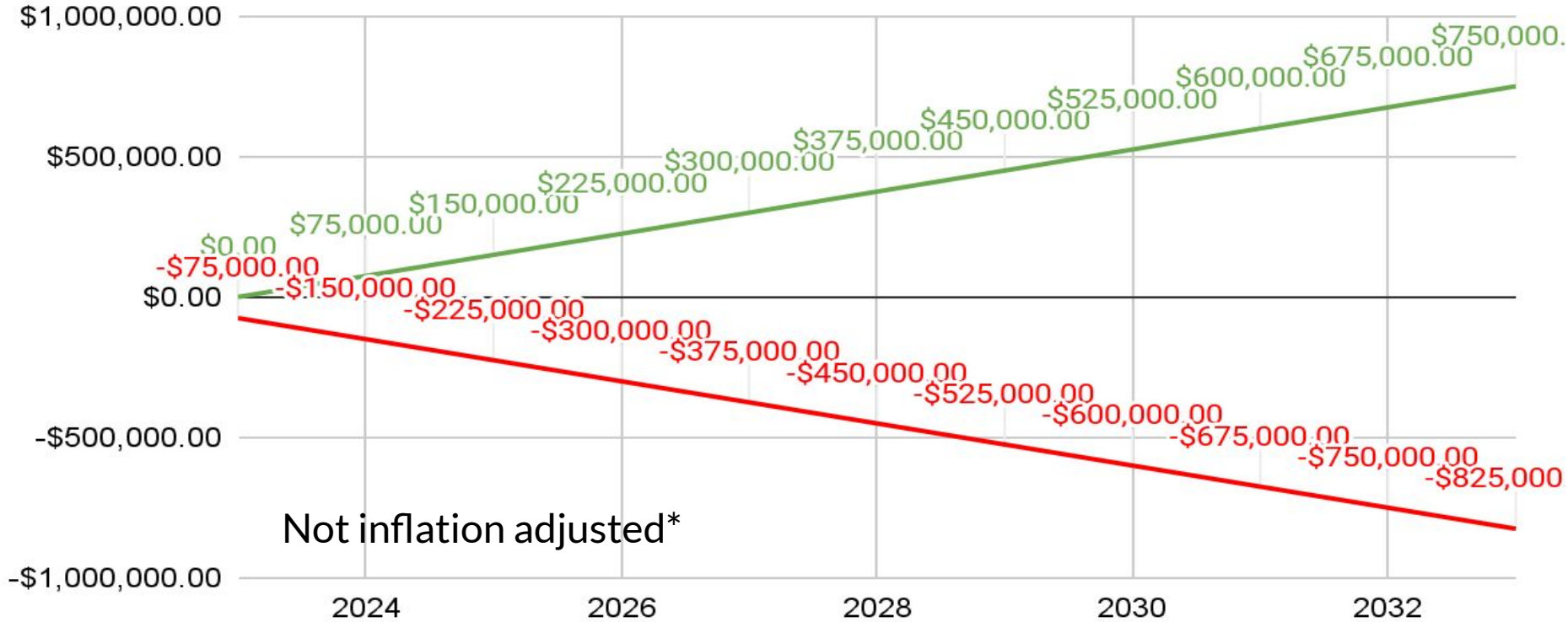


The smart irrigation system reduced water consumption at Building 1 by **6472 cubic meters**. This is equivalent to **\$25,000 in savings** in its first year of operation.

10 Year Projections at Humber Shared Facilities



Smart Irrigation System Standard System



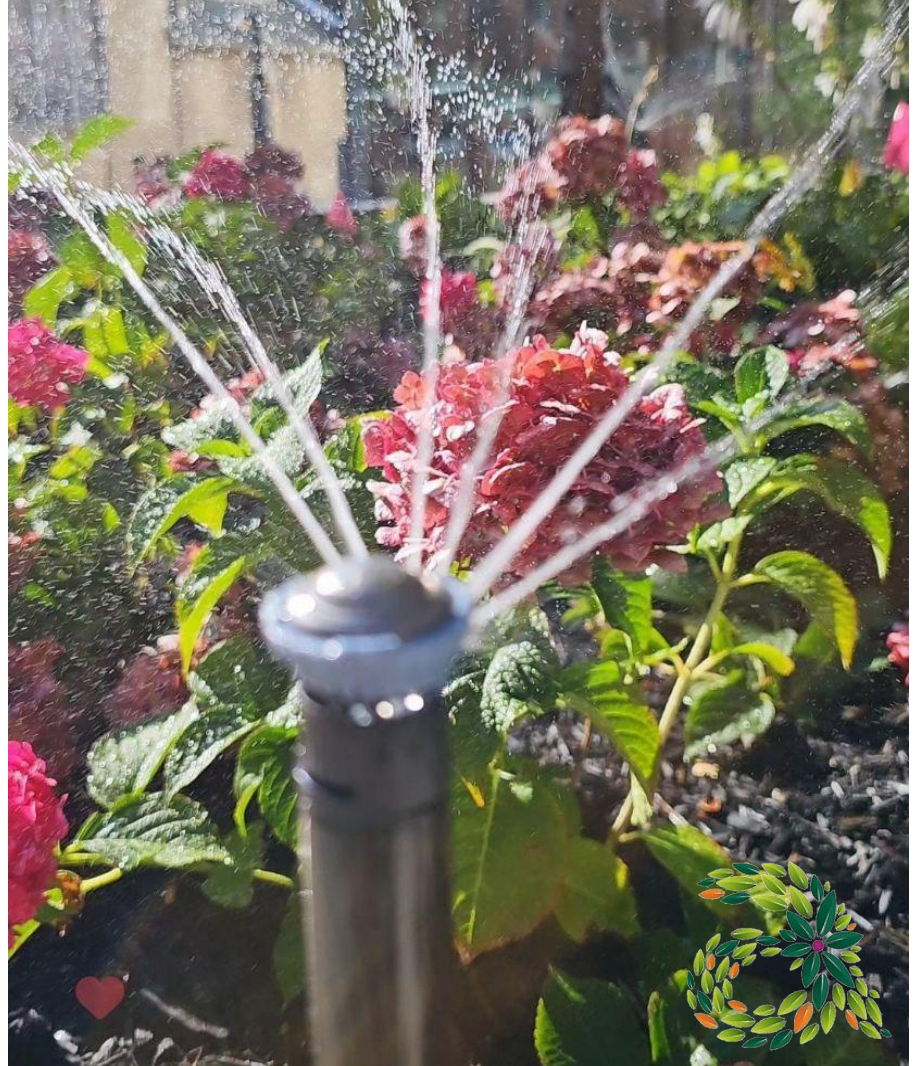
Humber Shared Facilities will realize an over **\$1.5 million dollar surplus** on their books from the smart system installation over **ten years**.

— Meet Harbourview Estates (HVE).

HVE had an older irrigation system.

During our system audit, we noticed a large amount of wind drift, causing a significant volume of water to accumulate on walkways and driveways, instead of on the plants.

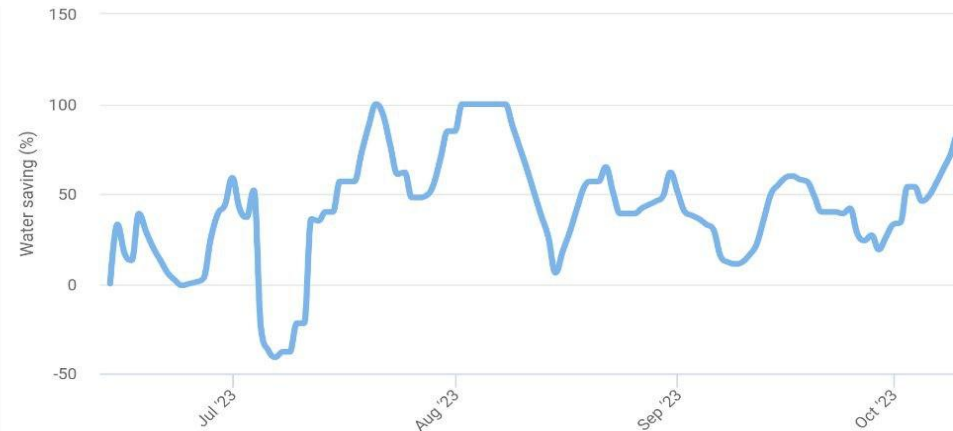
Our installation of high-efficiency nozzles across the property uses a larger water droplet, making the nozzles less susceptible to wind drift and evaporation at the nozzle increasing the watering efficiency significantly.



Meet Place IV.

Place IV installed one of our smart irrigation systems in early 2023.

The real water savings in 2023 was 50%, or nearly \$30,000.



Real water savings on a 7-day average



As the chart line moves, you can pinpoint the heat waves, rainy periods and cooler periods as the AI software digests true weather data and automatically adjusts watering based on our inputs.

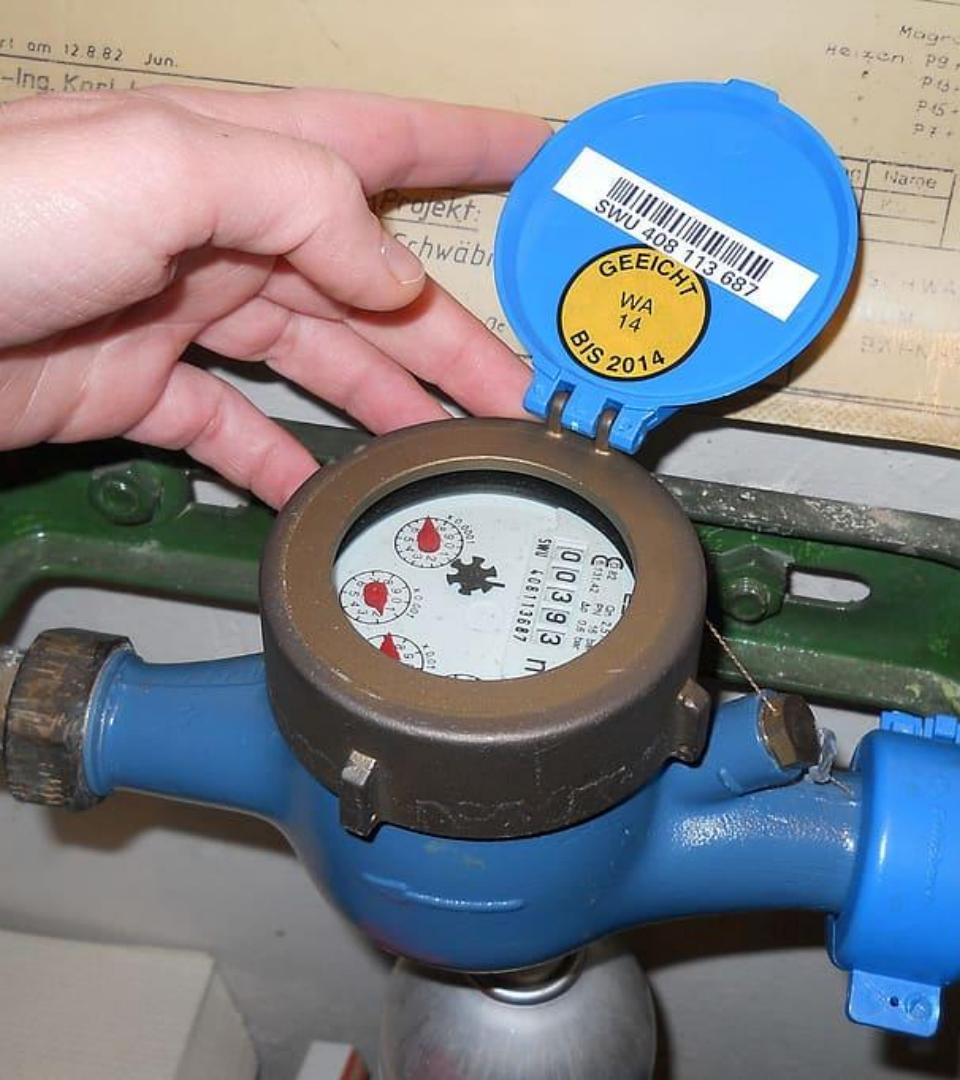
Nuvo hired Affinity
Irrigation to solve an
issue causing an
extraordinarily high
water bill.



Upon our investigation

There was a broken mainline constantly leaking on their terrace, which poured directly into a drain going unnoticed.





Our Solution

We installed a smart irrigation system with a smart meter to detect leaks.

The system learns each zone's typical output and alerts us to abnormal water flow.

In the event of a critical overflow, the master valve shuts off the system automatically.

We receive notifications and take action on repair ASAP.



New does not mean smart

New builds do not come stock with smart irrigation systems. It's vital to make this transition immediately.

The success stories of HSF and Kaneff serve as prime examples. Together they are conserving **over \$100,000** worth of water annually through the implementation of smart irrigation systems. However, there has been 30+ years before the retrofit was in place.

There are substantial savings to be realized.



Positive ROI In the First Year

This means more capital to allocate to your buildings' development or reserve funds every single year.



—
Integrates with your existing irrigation system

Your irrigation system
will **not** be shut off during
installation





Milestones

Our goal is to save 100 million gallons of water per year for our clients.

15 million gallons
saved

85,000,000 gallons of water still to save

Currently we have saved fifteen million gallons of water and nearly \$300,000 with a goal of saving \$2,000,000 total in 2024



It takes a **community** to
make a change.

Are you ready to join our
vision?

Thank you for your time!

Dive into your complimentary proposal for our smart irrigation system installation and let's make waves in saving water together.



Testimonials are always available upon request

Phone Number: 416-560-6547

Adam Stewart, Owner

Email: affinityirrigation@gmail.com

Website: www.affinityirrigation.com

Instagram: [@affinityirrigation](https://www.instagram.com/affinityirrigation)

Client List



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