

Why Your Stadium Pays More for Water Than It Should — and How to Fix It



Water Flow Innovations LLC

Flow Conditioning Device (FCD)
waterflowinnovations.com

No commercial facility creates demand spikes like yours — 50,000 fans hitting restrooms at halftime over-reads your meter every event. **Restroom surge, concession demand, and HVAC cycling create the conditions for air, gas, and turbulence to form in the line at your meter — and you're billed for every one.** The FCD (Flow Conditioning Device) corrects the measurement. Every fan-facing system stays the same. Your water bill drops — and so does your sewer bill, because sewer charges are calculated from the same inflated meter reading. One device. Two bills fixed.

WHY STADIUM WATER METERS OVER-READ

The Core Problem: No Commercial Property Creates More Intense Demand Spikes Than a Stadium at Halftime

Thousands of simultaneous flushes at intermission create demand surges no other building type replicates — generating air, gas, and turbulence in the line at the meter on every event. Concession demand compounds throughout. HVAC cooling towers cycle continuously. Your meter registers it all as billable water. The FCD corrects that without changing any fan-facing service downstream.

THE THREE OVER-READING SOURCES UNIQUE TO STADIUMS & ARENAS



Halftime Restroom Surge

Thousands of simultaneous flushes at halftime or intermission create the single largest demand spike of any commercial water use event — generating maximum air, gas, and turbulence at the supply meter.



Concession Stand Demand

Hundreds of concession sinks, dishwashers, and beverage systems cycling on and off throughout every event create continuous variable demand — compounding restroom surge over-reading all event long.



HVAC Cooling Tower Makeup

Arena HVAC cooling towers cycling with occupancy load create continuous variable demand events — adding a third compounding over-reading source on every event day and during dark building operations.



Your LEED O+M Water Intensity Per Attendee Is Better Than Your Meter Shows

Stadium sustainability reporting tracks water intensity per attendee for LEED O+M, TRUE Zero Waste, and league ESG programs (NFL Green, NBA Green, MLS Carbon Neutral). When the meter over-reads halftime surges, every figure is inflated. After FCD installation, metered intake reflects true use — improving the accuracy of all reported metrics, auditable from utility bills.

BEFORE & AFTER THE FCD

WITHOUT FCD

- ✗ Air, gas & turbulence billed as water volume
- ✗ Halftime surge inflates meter every event
- ✗ Concession demand compounds over-reading
- ✗ Water intensity per attendee overstated
- ✗ Sewer charge tied to inflated meter



WITH FCD INSTALLED

- ✓ Metered volume reflects water actually delivered
- ✓ Halftime surge reads accurately
- ✓ Concession demand measured correctly
- ✓ True water intensity per attendee revealed
- ✓ Sewer charge based on real usage

5–30%

Average water & sewer bill reduction

46%

Highest documented single-site reduction

~1 Hour

Install time — water off about 1 hour

6-Mo

Money-back, no questions asked · install non-refundable

How the FCD Works — Four Steps

1

Installs between two pipe joints right after your water meter — water off about one hour

2

Creates a slight back-pressure that extends back through the meter, reducing air, gas, and turbulence

3

Delivers a laminar-like flow profile through the meter — the condition it was calibrated to read

4

Meter reads accurately. Bill drops. Restroom pressure, concession flow, HVAC, and every fan-facing system are effectively unchanged.

FREE SAVINGS ESTIMATE

Instant estimate — takes 30 seconds, no contact info required.

[waterflowinnovations.com/
water-bill-savings-calculator](https://waterflowinnovations.com/water-bill-savings-calculator)

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CERTIFICATIONS

IAPMO NSF/ANSI/CAN 61 KIWA GMP SQF

316L Stainless Steel · Made in USA
Under 0.8 psi pressure loss
Lifetime Transferable Warranty