

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

Your boiler feedwater, flue gas scrubbers, and cooling towers all draw from the same municipal supply — simultaneously, every hour. **Three concurrent demand sources create the conditions for air, gas, and turbulence to form in the line at your meter — and you're billed for all three over-reading at once.** The FCD (Flow Conditioning Device) corrects the measurement. Every combustion and emission control 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 WTE FACILITY WATER METERS OVER-READ

The Core Problem: Three Simultaneous Large-Volume Demand Sources All Hit the Same Supply Meter

WTE facilities are unique — boiler feedwater, flue gas scrubber water, and cooling tower makeup all draw from the same meter simultaneously, every operating hour. Each source generates its own air, gas, and turbulence events. The compound over-reading from three concurrent sources is among the highest of any facility in the WFI portfolio. The FCD corrects all three at once.

THE THREE OVER-READING SOURCES UNIQUE TO WTE FACILITIES



Boiler Feedwater Makeup

Steam cycle boiler feedwater makeup cycles continuously with turbine load — creating variable high-velocity demand events that generate air, gas, and turbulence at the supply meter around the clock.



Flue Gas Scrubber Water

Wet scrubbing systems draw municipal water continuously in proportion to combustion throughput — creating the most distinctive over-reading source in any WTE facility, with no equivalent in other industries.



Cooling Tower Makeup

Steam condenser cooling tower makeup water cycles continuously with power output — adding a third simultaneous large-volume demand source compounding scrubber and boiler over-reading every hour.



Your NPDES Water Balance & Covanta ESG Water Intensity Data Is Better Than Your Meter Shows

WTE facilities reference metered intake in NPDES water balance filings and ESG water intensity disclosures. When the meter over-reads, every filing is inflated. After FCD installation, metered intake more accurately reflects actual use — improving the accuracy of NPDES documentation and Covanta, Wheelabrator, or public authority ESG water reporting.

BEFORE & AFTER THE FCD

WITHOUT FCD

- ✗ Three sources compound over-reading simultaneously
- ✗ Scrubber water demand inflates meter hourly
- ✗ Boiler & cooling tower add to over-reading
- ✗ NPDES water balance shows inflated intake
- ✗ Sewer charge tied to inflated meter

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WITH FCD INSTALLED

- ✓ All three sources corrected simultaneously
- ✓ Scrubber water demand reads accurately
- ✓ Boiler & cooling tower measured correctly
- ✓ NPDES water balance closes more accurately
- ✓ 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. Every combustion, scrubbing, steam cycle, and emission control system is effectively unchanged.

FREE SAVINGS ESTIMATE

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

waterflowinnovations.com/water-bill-savings-calculator

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CERTIFICATIONS

    

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