

● COOLING TOWER

Fortune 100 HQ Case Study Houston, Texas, USA

HydroFLOW® treatment at a Fortune 100 headquarters reduced blowdown, chemical use, and maintenance while lowering energy consumption and delivering measurable annual cost savings..

85%

Blowdown Reduction

75%

Chemical Reduction

50%

Maintenance Reduction

\$73k/yr

Water & energy savings



BEFORE & AFTER

● BEFORE

- ✗ Scale and biofouling buildup in system
- ✗ High chemical dosing required
- ✗ Frequent maintenance and blowdown

● AFTER

- ✓ Reduced scale and biofouling accumulation
- ✓ Significant reduction in chemical use
- ✓ Lower maintenance and blowdown water use



OVERVIEW

In April 2016, a Fortune 100 LEED Gold certified headquarters in Houston implemented a Total Water Management programme using *HydroFLOW*® across its cooling towers and chillers.



CHALLENGE

The facility needed to reduce water use, chemicals, and maintenance while maintaining cooling performance.

- Scale and biofouling affecting cooling efficiency
- High blowdown water consumption
- Dependence on chemical treatment
- Ongoing maintenance and energy costs

SOLUTION

HydroFLOW® units were installed as part of a Total Water Management programme, including monitoring, optimisation, and ongoing system analysis.

UNIT

HydroFLOW® Custom

SYSTEM TYPE

Cooling towers and chillers

PROGRAMME

Total Water Management

START DATE

April 2016



INSTALLATION

*Hydro*FLOW® unit installed on cooling pipe



SITE

Cooling towers at Fortune 100 facility

RESULTS

85% blowdown reduction

Blowdown water usage reduced significantly.

75% chemical reduction

Chemical use reduced while maintaining performance.

50% less maintenance

Maintenance frequency reduced.

10% energy reduction

Energy consumption reduced.

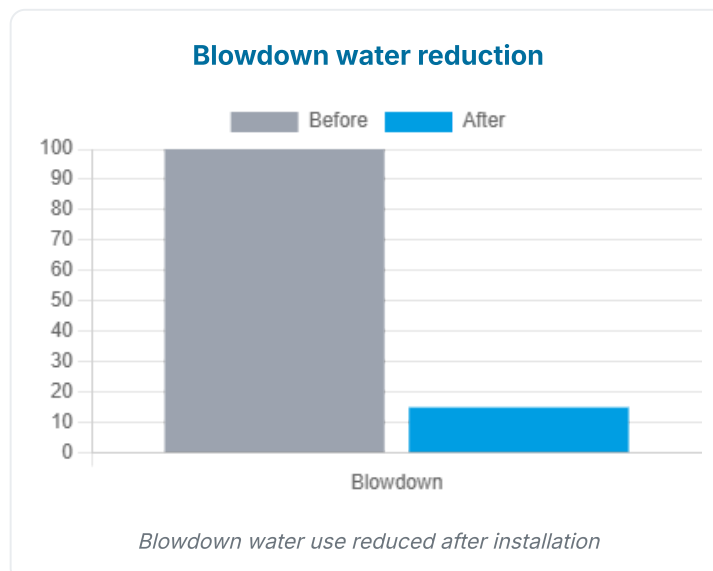
\$73k annual cost savings

Annual savings reached \$73,400.

Improved system efficiency

Reduced scale improved cooling efficiency.

GRAPHS





TESTIMONIAL

"HydroFLOW® significantly improved the operation of our cooling system."

— Facilities Manager

KEY TAKEAWAY

Summary

HydroFLOW® reduced blowdown water use, chemical consumption, maintenance, and energy usage while improving cooling system performance.

85%

BLOWDOWN REDUCTION

75%

CHEMICAL REDUCTION

\$73k

ANNUAL SAVINGS

RELATED CASE STUDY

Commercial Building Cooling Tower Case Study

Honolulu, Hawaii

HydroFLOW® units installed on a commercial building cooling tower in Hawaii eliminated the need for chemical biocides while dramatically reducing water waste through blow-down reduction, delivering over \$121,000 in annual savings with a 3-4 month return on investment.

85% Biocide Reduction

Near-total elimination of chemical biocide dosing on the cooling tower system

50% Blow-down Reduction

Halved water waste by reducing blow-down cycles significantly

\$121K Annual Savings

Combined chemical, water and maintenance cost savings per year

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