

# Save America Water



# WELCOME

## Ei Cooling Tower Blowdown Initiative



## Water Use | Toxicity

“Cooling towers use a tremendous amount of water and are common at large facilities like convention centers, hotels, airports and data centers.”

“The WCTI patented system reduces water consumption and eliminates toxic chemicals traditionally used to maintain cooling towers.”

“Thus, water use and toxicity are addressed in unison.”

**Holly Elmore, Founder & CEO**

*Elemental Impact*

# AGENDA

- ✓ WCTI Technology
- ✓ Success Stories
- ✓ What's Next

## Machines Hate Tap Water



## Water Must Be Treated to Prevent Scale, Corrosion & Bio-fouling



# Traditional Chemical Treatment



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Dan Duke, founder of WCTI, discovered in 2000 if you use a super softener to remove the hardness (calcium and magnesium) down to a gnat's hair,

Mother Nature will **give you** corrosion and bio-fouling protection, for free!



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- ✓ WCTI technology eliminates blowdown.
- ✓ By eliminating blowdown, the WCTI technology saves more water, more energy and more money than any other method.
- ✓ WCTI technology eliminates the constant discharge of toxic chemicals.
- ✓ WCTI technology gives superior Legionella protection.



## Additional Benefits

- ✓ Fast ROI
- ✓ Retrofits are easy.
- ✓ LEED points are available.
- ✓ Works with well water.
- ✓ Works with gray water.
- ✓ Works with rainwater.

# *Ei Cooling Tower Blowdown Initiative*

**Customer Profile** – Polk State College is a multi-campus institution serving over 24,000 students in Polk County Florida. The Winter Haven campus has 1200 tons of capacity with two Trane centrifugal chillers.

**Customer Objective** - Polk State College wanted the most efficient and safe system in line with their Sustainability goals.

**Project Results** – October 1, 2015 through September 30, 2016:

- **Saves 1.93 million gallons** of potable water and sewage capacity annually.
- **Saves \$25,500** in annual electrical energy costs (based on 2016 rates).
- **Prevents a ton of toxic biocides, inhibitors and dispersants** discharged annually.
- **Net annual operating savings: \$38,600.**
- **ROI of 9.63 Months** - installation costs were \$31,000.

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**Customer Profile** – Tampa Data Center (TDC), located in Temple Terrace Florida, is a global communications company processing data representing half a billion dollars in billings, every 24 hours. TDC's campus operates 4,200 tons of Trane centrifugal chillers.

**Customer Objective** - Prevent the catastrophic effects of scale to the condenser water system. Downtime is \$300,000 a minute and cannot be tolerated. Goal: operate safely without interruption.

**Project Results** – June 2011 through June 2016:

- **Saves 9.8 million gallons of potable water and sewage capacity annually;** a total of 49.2 million gallons for the five-year case study.
- **Saves enough electrical energy to operate 80 homes per year;** a total of 400 homes for the five-year case study.
- **Prevents 4.1 tons of toxic biocides, inhibitors, and dispersants discharged** to the environment annually.
- **Net annual operating savings: \$240,000;** 5 year total \$1.2 million; a 75% reduction.
- Within 8 weeks of the WCTI installation at TDC, six additional major Data Centers were commissioned for conversion to WCTI.

## What's Next:

### Hartsfield-Jackson Atlanta International Airport

*"The world's busiest airport"*



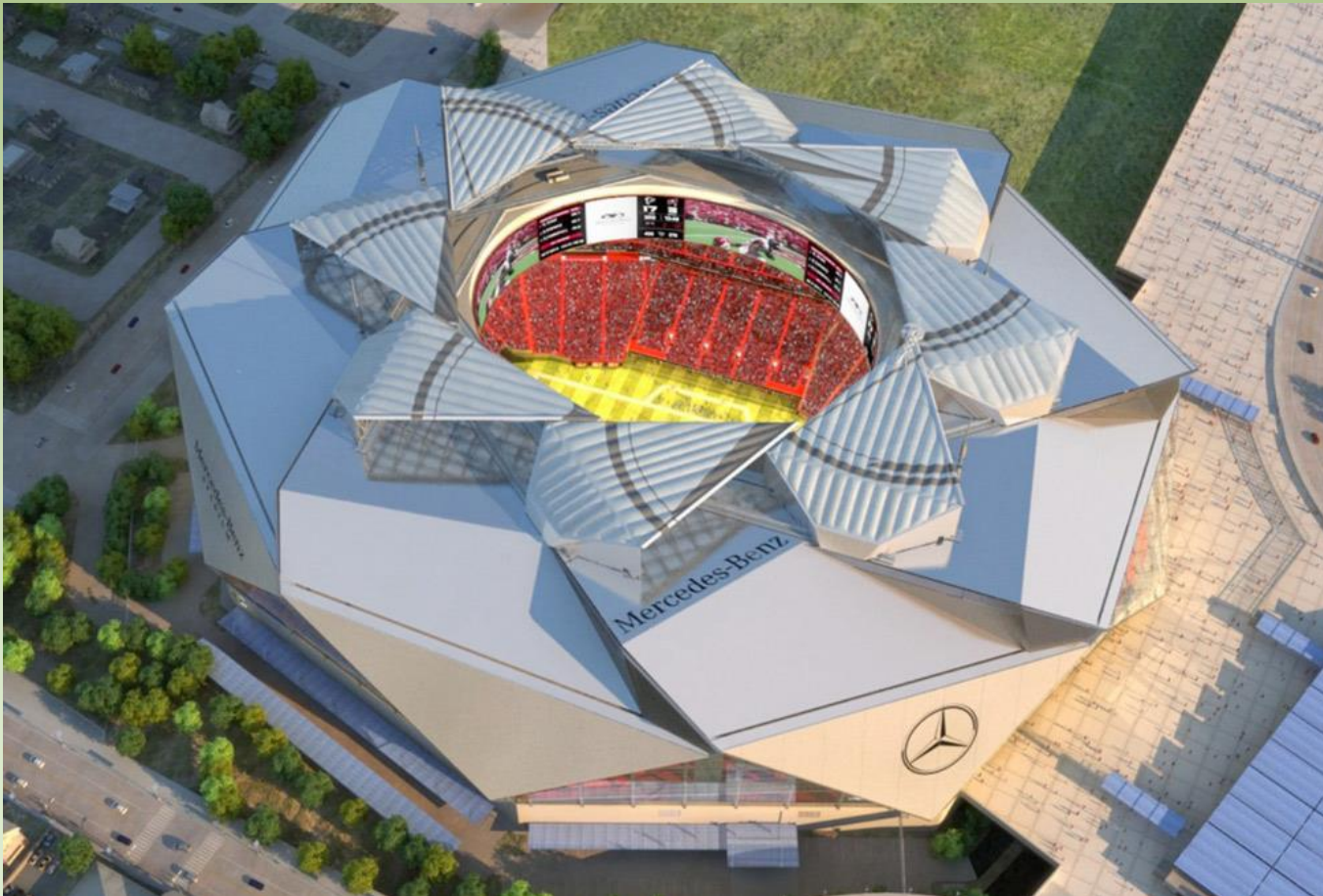
# What's Next: Georgia World Congress Center



What's Next:

# Mercedes-Benz Stadium

*Home of the Atlanta Falcons and Atlanta United FC*



# What's Next: TRANE Corporate



# Renaissance Technology

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