



# ECS

# Government Energy Savings

PHYSICAL WATER TREATMENT

*Making Sense Of Energy Technology*

## The ECS Solution

The Environmental Common Sense (ECS) HydroPlex® system represents an environmentally friendly and cost effective step toward achieving energy efficiency directives and statutes that call for Federal Agencies to reduce their energy usage. Signed in 2007, Executive Order 13423 established new energy efficiency goals for Federal Agencies, calling for a significant increase in the use of renewable energy resources, coupled with a 30 percent reduction in energy requirements and a 16 percent reduction in water consumption by FY 2015.

ECS technology is recommended for use on federal facilities by the Federal Energy Management Program (FEMP) report on energy efficient technologies that was issued in 1998 by the U.S. Department of Energy. Over the past decade, this technology has helped U.S. Post Offices, public transportation entities and other government clients recognize significant short-term and long-term energy savings.

## Significant Energy Savings

The installation of the HydroPlex® system has fostered significant efficiency improvements through the reduction of energy consumption and water usage. While the total savings depends on many different variables, users have experienced substantially increased efficiency due to the elimination of hard water scale and subsequent reductions in annual chiller/tower run-time.

Based on the average run time of chillers/towers in the Washington DC area, a mid-sized (500 ton) HydroPlex® treated tower reduces electrical usage by 248,000 kW in the first year. Projected savings over the 25-year expected service life of the chiller/tower is 6,200,000 kW. ECS will perform a detailed analysis for prospective customers to determine the specific amount of energy savings.



## Our Commitment

ECS shares your commitment to implementing real energy conservation solutions, and to develop innovative cost-reducing solutions that eliminate waste and promote efficiency. I ask that you consider using HydroPlex® as you examine proposals to promote green practices within your agency. We look forward to the opportunity to meet with you and provide additional information about our cost-effective, clean physical water treatment solutions for commercial, industrial and institutional facilities.

Learn more at [www.ecsh2o.com](http://www.ecsh2o.com)



ECS is a member of the U.S. Green Building Council, a nonprofit organization committed to a prosperous and sustainable future for our nation through cost-efficient and energy-saving green buildings.

## Additional HydroPlex® Benefits

- Installation of a HydroPlex® will save users millions of gallons of water
- Combats the growth of algae, bacteria, including Legionella, and bio-mass formation which can be toxic
- Reduces the frequency of maintenance required for chiller/towers
- Eliminates the need for costly and dangerous chemical treatment programs