



Where Blue Meets Green

## The story of green

For decades, energy consumption far outweighed the concern for water in the overall sustainability scene. Though energy still plays a large role, water conservation is pushing forward to a more prominent position. With increasing populations, clean freshwater is progressively becoming a rare and priceless commodity. Over the last few decades, however, attempts have been made to emphasize the need to conserve energy, water and money through products that use less of these resources—a sustainable lifestyle for nature and your wallet.

## Where blue meets green

T&S entered the green scene before it was an industry fad, manufacturing products that were as sustainable in their creation as they were in their performance. Now continuing to move forward, we're bringing the blue of T&S to a new level of green, creating products and using manufacturing processes that flow from our sustainability commitment. We're helping you save your natural and financial resources. Green isn't new for us. It's who we are.



### Recycling materials

Creating a water conservation product is pointless if the processes used to make it aren't sustainable themselves. T&S recycles as much as possible—from our scrap metal, cardboard and plastic, to the plastic pallets we use instead of wood. We're keeping these materials from the landfill and putting them back to use.

## Joining forces

As a leader in sustainability, we've formed partnerships with organizations that share our commitment to water conservation and sustainability. From the USGBC, the creators of LEED certification, to EPA's WaterSense and the Alliance for Water Efficiency, we're proud to work together with other conservation entities to raise awareness, educate others and conserve resources. When you choose T&S products, you partner with us, as we work toward the goal of true sustainability.



## Sustainable products

Over 20 years ago, we created our first low-flow spray valve to help conserve water, energy and money. Our team of design engineers continues to create industry-leading, water-efficient products. As the market continues to demand more green plumbing and foodservice fixture fittings, T&S will develop innovative solutions that meet the need.

- Low-flow spray valves
- Electronic faucets
- Aerators
- Ceramic cartridges
- Metering faucets



### Water conservation

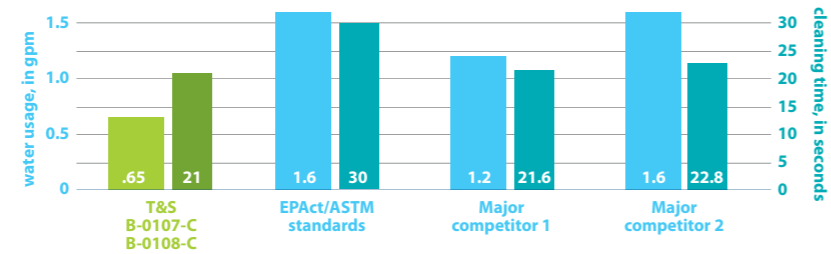
Not only do many T&S products substantially reduce water consumption, we've also taken great care to minimize our own use of water throughout the manufacturing process. Saving water to make products that save water—our view of success.





### Low-flow spray valves

Our spray valves introduced water efficiency and conservation to the pre-rinse unit. The federal spray valve water usage limit is 1.6 gpm, but our newest T&S spray valves are leagues ahead, offering .65 gpm, saving you up to 100,000 gallons per year.



### Electronic faucets

Saving as much as one gallon per hand wash, T&S electronic faucets are an ideal water-saving option for a variety of applications. These smart faucets only turn on when a user's hands are under the spout and flow at a predetermined low-flow rate.

Now, with our Hydro-generator, you can save water *and* energy. As one of three power options for T&S electronic faucets, our Hydro-generator harnesses the flow of water to generate enough electricity to power its next use.



### Aerators

The perfect product to turn a standard faucet into a water-saving device. Our aerators provide flow control by restricting water usage to between .25 and 2 gpm.



### Ceramic cartridges

Sometimes a small leak can be a big culprit in water consumption. Our Cerama cartridges rarely leak, since there are no seals or washers to wear out. Cut your water usage by 20 percent with a simple switch to our ceramic cartridge.



### Metering faucets

T&S metering faucets significantly reduce water usage and save energy by regulating water flow and duration without using even the minimum amount of energy required by electronic faucets.



### Advanced packaging

New developments in T&S packaging film eliminate the need for a coated pad. Less processing required in the manufacturing of the pads and a higher recycled content in the pad corrugation is better for the environment.

## LEED 2009

LEED (Leadership in Energy and Environmental Design), the national standard for sustainable construction, maintenance and restoration created by the United States Green Building Council, offers certification for structures that meet established conservation criteria. Launched in April of 2009, this version of LEED builds on the previous certification model, to create an even more robust third-party verification system.

## T&S and LEED 2009

With LEED 2009, several changes have been implemented to make the certification even better. Some of these developments address the increasing environmental concern for conserving freshwater.

Because T&S is a market leader in creating products that drastically cut water usage, we're able to provide you with more point-earning power under the new LEED system. Though LEED doesn't certify products, T&S can contribute to LEED certification in three specific categories: Water Efficiency, Innovation and Design and Regional Priority.

### Relevant Credits

Water Efficiency	WE Credit 3: Water Use Reduction (2-4 points)
Innovation and Design	ID Credit 1: Innovation in Design (1-5 points)
Regional Priority	RP Credit 1: Regional Priority (1-4 points)



### Green plating

Now using Envirochrome Trivalent Chromium, T&S Brass' plating process uses one-third less electricity than traditional hexavalent chromium plating.

The new method reduces water usage, heavy metal waste and the frequency of stripping and replating, which produces waste.

## WE Credit 3: Water Use Reduction

The Water Efficiency category now has a prerequisite (20 percent less water than the water use baseline calculated for the building) that must be met to earn points in this category. T&S products meet or beat the EPA 2005 requirements necessary to achieve the percentages required. Beyond the prerequisite, an additional 2-4 points are available, based on the amount of water the building saves above the prerequisite. Though other plumbing fixtures, such as showers and toilets, must also pull their weight, T&S products can help you earn maximum points in this category.

	<b>Current Baseline</b>
<b>Commercial lavatory (restroom) faucets</b>	2.2 gallons per minute (gpm) at 60 pounds per square inch (psi), private applications only (hotel or motel guest rooms, hospital patient rooms) 0.5 (gpm) at 60 (psi) all others except private applications 0.25 gallons per cycle for metering faucets
<b>Commercial pre-rinse spray valves (for foodservice applications)</b>	Flow rate $\leq$ 1.6 (gpm) (no pressure specified; no performance requirement)

## ID Credit 1: Innovation in Design

Innovation and Design is a new category that encourages creative strategies for conservation. One to 5 Innovation and Design credits can be earned through sustainable choices that go beyond the scope of the other point categories. T&S products can contribute in this area, due to significant water conservation features that go "above and beyond" in the Water Efficiency category.

## RP Credit 1: Regional Priority

The environmental needs of Michigan vary significantly from those of Arizona. LEED 2009 takes this into account through the new Regional Priority category, which is worth up to 4 points. Selected by the USGBC's regional councils, area-specific concerns are identified and plugged into the criteria for the Regional Priority category. Corresponding point values are available for structures that address particular zone needs. And water conservation frequently qualifies as a priority, since freshwater has become more of a concern in specific locales.

Planning for LEED 2009 certification? Let T&S help you achieve your sustainable goals.



### Energy efficient

We've made the T&S manufacturing facilities better for the environment by smarter use of electricity, using fresh air and variable speed air conditioners and installing cooler lighting that conserves energy.





## Carbon footprint

Through our careful recycling efforts, T&S Brass has reduced our carbon footprint by more than 50 percent in the last five years. And since our products are made to last, we've already minimized landfill waste through sheer durability. Materials that would have been used to replace a less durable product are not needed, eliminating waste on the front end. At T&S, it's Reduce, Reuse, Recycle at its best.

Whether you're striving to meet LEED certification or just want a sustainable solution that conserves our freshwater resources and saves you money, you'll find reliable, innovative products from T&S. We're here for you and for the world we live in, providing sustainable products that have been manufactured with an environmental focus. Turn on the tap and save water with T&S. It's where blue meets green, with Reliability Built In.™

To learn more about T&S and our sustainable products and processes, visit [www.tsbrass.com](http://www.tsbrass.com) or call us at (800) 476-4103.



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