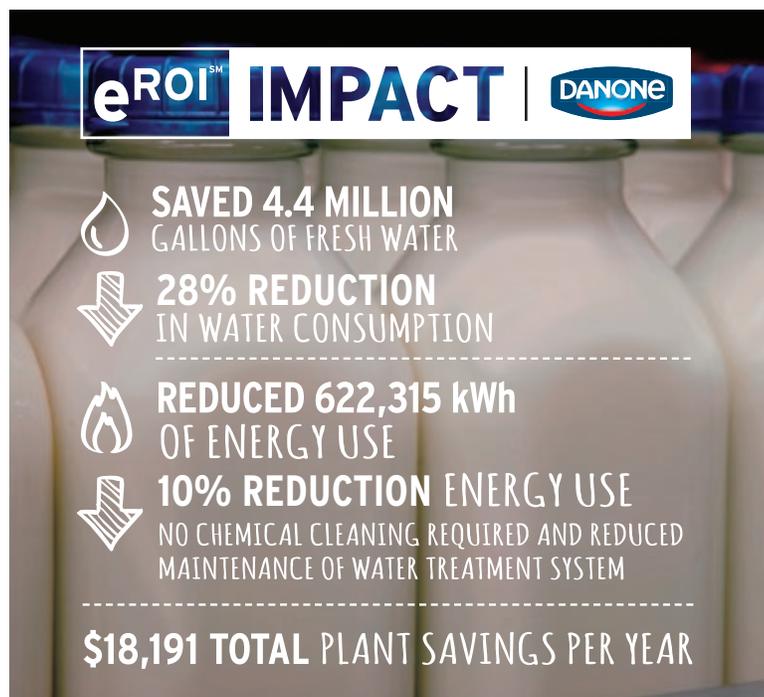


## French-owned dairy plant quenches Russian thirst efficiently

Danone, a global food and drink processing company headquartered in Paris, France, had its dairy plant in Tchehov, Russia, operating at full capacity. In 2012, the plant's new chilled water system churned out yogurt, cheese and dairy drinks for all of Russia and Commonwealth of Independent States countries, but it consumed excessive water and energy resources. In 2014, Danone asked Nalco Water, an Ecolab company, to conduct a Mechanical, Operational, Chemical and Sustainability (MOCS) audit of the water treatment system. After diagnosing the problem, Nalco Water installed 3D TRASAR™ for Cooling Water Technology in 2015. 3D TRASAR provides round-the-clock fine-tuning, faster problem solving and improved system operations, saving water and energy, while making efficient use of chemistry.



### TECHNOLOGY

3D TRASAR™ for Cooling Water Technology

### PRODUCTION & MANUFACTURING

#### 2015 PRODUCT INNOVATION HIGHLIGHTS

##### DrySan™ Duo

Designed for dry-processing environments where products such as cookies and potato chips are manufactured, DrySan™ Duo is a revolutionary two-in-one cleaning and sanitizing solution that is EPA registered and safe to use on food-contact surfaces. Winner of the 2015 Institute of Food Technologies Food Expo Innovation Award, DrySan Duo is a ready-to-use, no-rinse product that effectively eliminates 100 percent of water from this cleaning step.

##### POSITEK™ 4g 9000

POSITEK™ 4G 9000 Microparticle is a component of our comprehensive POSITEK™ papermaking performance package. This new colloidal silica dispersion aid is specifically formulated to improve On-Machine-Efficiency (OME) sheet quality, and improves retention and drainage in a cost-effective manner. Energy savings are derived from increased water removal and more efficient sheet pressing and drying. The solution delivers improved outcomes when used with PARETO™ Mixing Technology.

##### METRIX™ Titan Technology

METRIX™ Titan technology is a novel program that delivers strength development, system charge balance and improved dewatering for the paper industry. It combines a multi-functional reactive polymer with Nalco Water's advanced retention and drainage programs. The end result optimizes machine efficiency and productivity while maximizing sheet quality and strength.

##### PRISM – Fouling Control for Styrene Production

The new PRISM products (EC3470A and EC3535A) help producers of styrene, a derivative from petroleum and natural gas to produce plastic, reduce and control polymerization with less toxic chemistries. This technology offers cost-effective, optimized polymerization control for styrene back end distillation, as well as reduced NOx emissions. The solution minimizes fouling and monomer loss and protects the unit during emergency shutdowns.

For more information about sustainability at Ecolab, please visit [ecolab.com/sustainability](http://ecolab.com/sustainability).

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