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GE Infrastructure  
Water & Process Technologies  
Food & Beverage Industry

powerful  
stream



Bulletin 1020EN 0504



# pure safety

There's a simple reason to work with GE Infrastructure Water & Process Technologies: We can improve every side of your operation, from critical production processes, to plant utility and waste treatment systems, to food safety assurance and environmental and regulatory compliance.

We are a single source for an integrated offering of filtration and separation equipment, chemistries and services to meet your water and process treatment needs. We support your strategic objectives by:

- Maximizing production of high-value products
- Protecting product quality and brand image
- Increasing product safety, including bacteria removal from water
- Conserving water and energy
- Improving environmental compliance
- Maximizing equipment uptime
- Protecting critical assets

## Quality performance, global consistency

GE delivers quality results with exceptional value, and translates those results from plant to plant and country to country. We are experts in a wide range of industry sectors including:

- Beverage production
- Milk and cheese processing
- Meat and poultry processing
- Wet corn and oilseed milling
- Beet and cane sugar production
- Ethanol production
- General food processing

With more than 100 years of experience and deep industry knowledge, we understand your special challenges, including regulatory compliance. Our food-grade products comply with various applicable industry standards and requirements for sanitary manufacturing, such as 3A, USDA, NSF and FDA, and other national food-contact regulations.

Our rigorous product review ensures that our food-grade products are safe for their intended use. For example, GE has expert opinion letters that its food-grade membrane elements meet European Union food-contact directives.





# profits that rise to the top

Offerings from GE can help you earn more profit. In a fast-changing business, food and beverage producers worldwide trust us for water and process treatments that increase efficiencies, drive down costs, and create new revenue streams.

## **New frontiers in product separation**

We specialize in solutions that increase revenue by isolating valuable components. We are pioneers in product separation: Our membrane technologies are integral to separation systems offered by world-leading food processing equipment manufacturers. Now, chromatography systems promise to take separation to even higher levels of performance.

## **Ingredient water production**

Our reverse osmosis and ultrafiltration membrane systems with cartridge filtration consistently deliver high-quality ingredient water, hour by hour, year after year.

## **Innovative boiler and cooling system chemistries**

GE treatment chemistries and reverse osmosis systems maximize boiler and cooling tower efficiency by preventing corrosion, scale, and microbiological fouling. Because we understand the effects of water chemistry on boilers and cooling towers, we can recommend changes that optimize performance.

## **Advanced wastewater technology**

Our basic wastewater treatment offerings include clarification, filtration, and dewatering polymers. Our innovative equipment offering can purify wastewater to any level and offers the ability to remove soluble biological oxygen demand (BOD), suspended solids and fats, oils and greases (FOG). Besides improving compliance, our offerings drive down chemical usage, energy consumption, effluent discharge and land application costs.

## **Cleaner effluent, lower compliance costs**

GE wastewater treatment systems help producers comply with regulations and help drive down liquid and solid waste disposal charges. For a cheese producer, we made a series of wastewater treatment process changes that enhanced solids removal and reduced municipal treatment surcharges.

GE also offers odor-control and dust-suppression programs that improve compliance and enhance community relations.



# we don't promise value

## **Our people: Your best resource**

GE people are industry specialists who understand your business and your process, and work on your site to give you personalized solutions. They help you by:

- Analyzing processes and prescribing treatments
- Performing diagnostics and troubleshooting
- Servicing and maintaining equipment
- Using Six Sigma methodologies to solve your most difficult problems and optimize processes

People who understand your process

# we prove it

GE offerings deliver measurable benefits to your business. Our Value Generation Plan identifies what is important to you and quantifies how we will:

- Increase productivity
- Reduce costs
- Improve environmental compliance

## **Support programs across the spectrum**

We can tailor our service and support programs to almost any need and budget. Your options range from basic maintenance agreements to complete, turnkey maintenance and operation contracts. Our popular PlantGuard\* program provides comprehensive consumables, services and equipment with levelized monthly billing. Benefits include:

- Service and maintenance agreements
- Flexible financing for capital purchases
- Optional extended warranties on equipment and membranes

Our Mobile Water fleet provides fast-response supplies of membrane-treated water for short-term needs or emergencies. Mobile Water units helped one major soft drink bottler operate with no lost production revenue while installing new in-plant treatment systems at three locations. The individual sites received up to 300 gpm (1,100 lpm) of ingredient water around the clock for three months.

## **Constant innovation, continuous improvement**

The advantages GE brings you today will grow even bigger tomorrow. Our Global Research Center, part of a USD \$4.5 billion GE investment in R&D, makes discoveries each year that can directly benefit your business. Our new and developing technologies for the food and beverage industry include:

- Protein isolation and capture
- Waste-to-energy (combined heat and power) systems
- Advanced separations technologies
- Microbiological detection
- InSight\* remote monitoring and diagnostics with central data collection for boilers and cooling towers

As our customer, you also have access to technologies and services through other GE businesses:

- Financing programs from GE Commercial Finance
- Power generation systems from GE Energy
- Access and control and security systems from GE Infrastructure Security
- Automation systems from GE Fanuc Automation
- Portable ultrasonic flow meters from GE Infrastructure Sensing

GE people, solutions and technologies help you prosper today to ensure a successful and profitable future.