



# **Annual** Report



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### Message from the President



For more than thirty-five years, our corporate vision, Of the People, For the Customer, By the Technology, has directed our business practices at Brewer Science. Our Health and Safety, Security, and Environmental (HSSE) management systems have fulfilled this vision by providing leading programs to sustain and improve the environment in which our company operates. Our mission to continuously improve our global HSSE systems to the benefit of our employees and customers substantiates our commitment and adds unexpected value throughout the world.

Brewer Science has been externally reporting environmental, safety, and health performance on a yearly basis since 2006. We provide this report to our

stakeholders to better communicate the continued importance we place on safety, employee wellness, environmental and social responsibility, and the value those qualities bring to our employees and our community.

Brewer Science is proud of the results our HSSE efforts have had on our internal and external communities. Key outcomes of our improvement programs include:

•Wellness Program, including fall and winter fitness programs, wellness seminars, an on-site exercise room, the promotion of healthy foods available in the workplace, paid 30 minutes of exercise per day, an annual health and wellness fair with biometric screening and flu vaccinations, and financial wellness resources

• Partnered community collection of tires, household appliances and electronics, diverting nearly 30,000 lbs. of residential material from landfills

•30-day special paid leave for employees

that runs concurrently with FMLA (certain military leaves also qualify)

•Reusing and recycling approximately 99% of our hazardous waste for the seventh straight year by utilizing fuel blending, reuse, and recycling methods

•Recycling 59 tons of cardboard, paper, batteries, plastic, and bulbs, diverting these items from landfills

•Continuing to be below the average OSHA® recordable injury rate for our industry •Receiving the GreenCircle, LLC "Zero Waste to Landfill" certification 3 years in a row

•Utilization of geothermal technology for use at the Vichy manufacturing facility

•1730 days since the last Lost Time Incident

•Yearly Incident Command and Emergency Response training and excercises for employees

•Utilization of the Community Service Leave Policy that offers 32 hours of paid time for community service

These achievements are testaments that the global health, safety, security, wellness, and environmental policies we enact educate our employees, improve their well-being,

and environmental policies we enact educate our employees, improve their well-being, and continue to make Brewer Science an environmentally friendly leader and socially responsible member of the community.

We continually seek ways to improve and always welcome your feedback. It is our sincere desire that these efforts will have a positive impact on the overall health, safety, security, and environment of the global communities that we influence. Additional information can also be obtained from our website at brewerscience.com/about-us/environmental-safety.

Dr. Terry Brewer

President and Founder, Brewer Science, Inc.

# Why HSSE?

Brewer Science recognizes its responsibility to conserve natural resources while providing safe, secure, and environmentally responsible solutions for customers throughout the world. For this reason, Health, Safety, Security, and Environmental (HSSE) management systems based on the requirements of the ISO<sup>®</sup> 14001 and OHSAS 18001 standards are maintained. A global HSSE Team implements and maintains systems that support the company's HSSE policy and goals. Internal Safety, Security, and Environmental Departments participate with and assist the HSSE Team by educating employees and the local community about improved waste management and HSSE practices.

### Health, Safety, Security, and Environment (HSSE) Policy

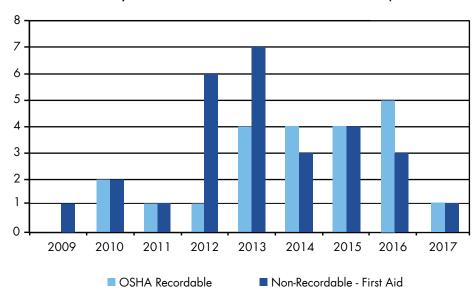
Brewer Science has established, and is committed to maintaining, health, safety, security, and environmental management systems with the overall objective of preventing pollution of the environment and providing a healthy, safe, and secure workplace. Suppliers, contractors, and customers are encouraged to follow ISO<sup>®</sup> 14001 standards. These systems will drive continuous improvement through planning, risk assessment, monitoring, corrective action, and management review. Brewer Science will comply with all relevant international, federal, state, and local regulations, and other requirements, wherever we operate.

## **HSSE** Performance Information

All environmental, health, and safety aspects of Brewer Science processes and products are identified. Objectives and targets that minimize the company's negative impact on these systems are then developed. Management approves the objectives, while the HSSE Team manages the systems to ensure all goals are reached effectively and on time.

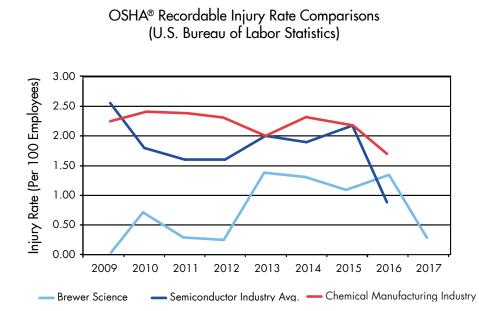
### **OPERATIONAL OBJECTIVES**

- Receive the GreenCircle, LLC "Zero Waste to Landfill" certification
- Divert 40% of hazardous waste volume to re-use applications
- Reduce the overall occurrences of chemical spills and chemical exposures by 30% from 2017

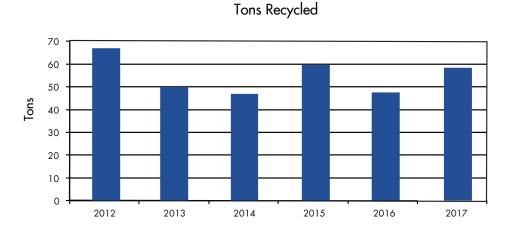


Summary of Recordable and Non-Recordable Injuries

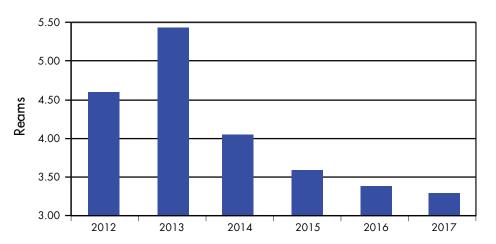
Brewer Science experienced one recordable injury in 2017.



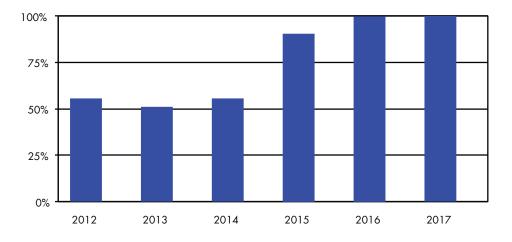
The Brewer Science safety record continues to exceed the semiconductor industry average.



Brewer Science has recycled over 700 tons of material since its formal recycling program was initiated in 2002. Materials included in these numbers are all types of paper, plastic bags, shrink-wrap, bottles, and containers. The proceeds from recycling aluminum cans, cell phones, and ink-jet cartridges are donated to local non-profit organizations. Batteries, steel drums, and other metals are also recycled. Brewer Science continually looks for ways to utilize recyclable materials.

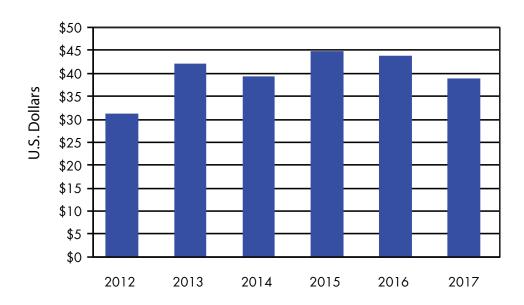


Annual Paper Usage Per Employee

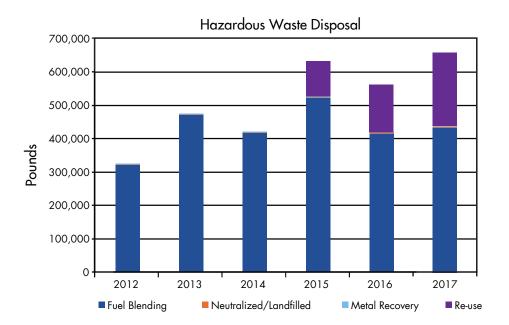


#### Diversion Rate of Solid Waste

Brewer Science sustained its 100% rate of total solid waste diverted from landfills.

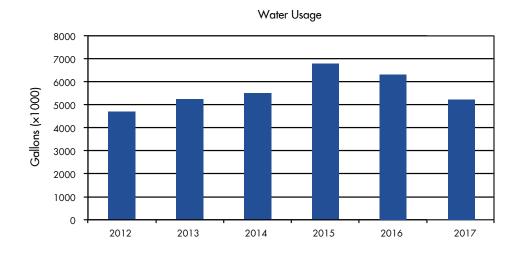


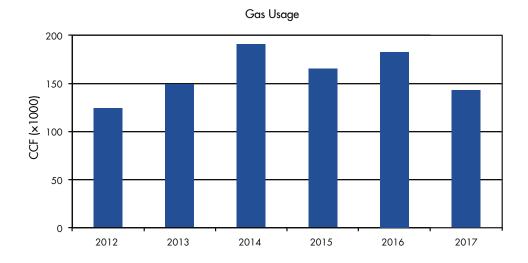
### Annual Solid Waste Disposal Cost Per Employee

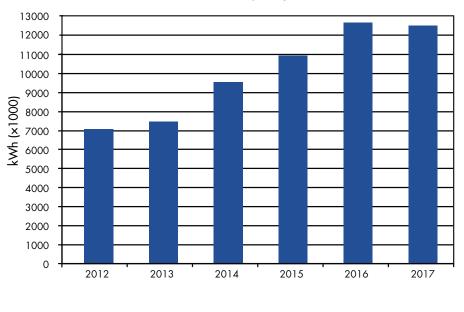


Fuel blending involves processing hazardous waste into fuels derived from liquid and solid waste, which are used as a secondary fuel source to replace coal and natural gas in cement kilns. This method is safe and effective for recovering the energy value of the waste and helps conserve our planet's finite natural resources.

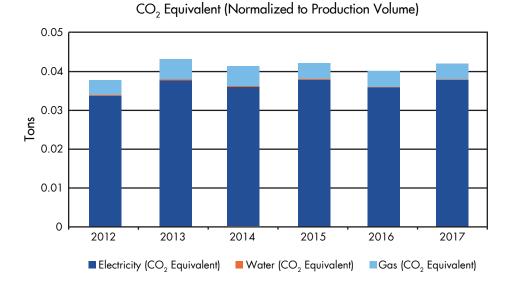
Metal drums are processed as they pass through a container decontamination unit, an oven fueled by natural gas with temperatures above 1500°F. The high temperatures destroy the chemical residues, which produce ash. This ash is tested and blended on site into an alternative fuel source for cement kilns. Decontaminated drums are then crushed and sent to steel mills for recycling.



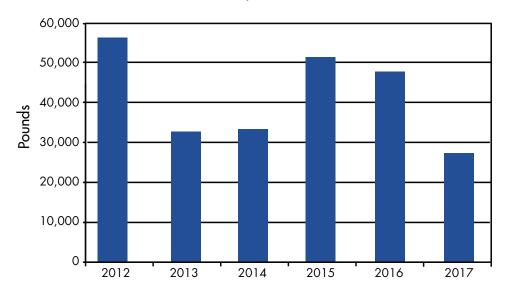








Brewer Science expansions and increased production have increased the overall utility usage year over year; however, our Green Program efforts continue to retrofit existing systems and ensure energy-saving options are implemented with new construction projects. Weather patterns in the summer and winter months also have a large effect on utility usage for gas, water, and electricity.



#### **Community Waste Collections**

Brewer Science continues its partnership with the community by helping stakeholders properly dispose of waste and by adopting the surrounding streets in our industrial park. By working with the City of Rolla, the Ozark Rivers Solid Waste Management District, the Missouri Department of Natural Resources, the Meramec Regional Planning Commission, and the Phelps County Commission, Brewer Science provides area residents with community collections that have enabled Phelps County to properly dispose of nearly 940,000 pounds of waste over the past 16 years. This partnership contracted disposal companies and provided volunteers who collected appliances, electronics, and tires from area residents that would have otherwise been disposed of in a landfill. Brewer Science continues to support these efforts.

# Training

All personnel are required to be competent when they perform tasks that may impact HSSE issues in the workplace. Competence is defined in terms of appropriate education, training, and/or experience. Training requirements are based upon the specific task requirements of individual job descriptions and/or homogeneous exposure groups as defined in our Hazard Assessment Procedure. Training plans are updated and documented at least annually as part of the HSSE objectives planning process, and are summarized in the Corporate Training Matrix. Human Resources maintains these records according to the Training Process.

Below are some of the required HSSE training courses:

- Hazard Communication Annual Refresher
- Hazardous Waste Annual Refresher
- Lockout/Tagout Authorization
- Chemical Hygiene Plan
- Workplace Violence Prevention
- Fire Extinguisher Training
- Flammable and Combustible Liquids Training
- Influencing Security-Compliant Behaviors
- Emergency Response
- Safety Review & Lab Chemical Hygiene Plan
- Hot Work Permits
- Respirator Training
- Electrical Safety
- Gas Cylinder Handling
- Compressed Gas
- Ergonomics
- Material Handling
- Elevated Work
- Globally Harmonized System
- HF/Piranha/Strong Acids

# Awards and Recognition

Brewer Science has received numerous awards in recognition of its voluntary efforts and genuine concern for the environment.

### LOCAL

- 2012 Ozark Rivers Solid Waste Management District: Dedication to the environment in the Ozark Rivers Region
- 2012 Award of Congratulations from SAFERolla for recognizing the importance of protecting the health of workers and our community. Awarded by the physicians and volunteers who make up the Smoke-Free Air for Everyone coalition.
- 2014 Safety Council of the Ozarks, Les Reynolds Million Hour Award 2014

### STATE

- 2013 Terry Brewer named "One of the 50 Missourians You Should Know" by Ingram's magazine
- 2013, 2015, 2017 Brewer Science named "Top Workplace" by the St. Louis Post-Dispatch
- 2014 Safety Excellence Award from the Missouri Association of Manufacturers
- 2016 Brewer Science honorable mention for "Top Workplace" by the St. Louis Post Dispatch
- 2016 Made In Missouri "Sustainability Leadership Award" from the Missouri Association of Manufacturers

### NATIONAL

- 2012 Ozark Rivers Solid Waste Management District: Award in the business category for outstanding multiyear environmental support to the community
- 2011, 2012, 2013, 2014, 2015, 2016 American Heart Association: Gold Fit Friendly Award
- 2014, 2015, 2016 Minority Engineer magazine's list of Top 50 Employers in the United States
- 2016, 2017 Zero Waste to Landfill Certification



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