

CUSTOMER CASE STUDY



INDUSTRY

Food Manufacturing

EQUIPMENT

- (4) 500HP Boilers operating 24 hours/day, 7 days/week.
- 6 Cooling Towers totaling 3000 tons

LOCATION

Eastern Pennsylvania

CUSTOMER CHALLENGE

Become a more environmentally-friendly facility.

The plant was under a directive to reduce their carbon footprint. Two problems were the high volume of 15 & 55-gallon chemical drums being used (requiring freight/fuel use and disposal of empty drums) and many electric pumps for the liquid chemicals.

- Boiler Water Treatment: Operators were adding 4 different liquid chemistries daily.
- Cooling Tower Treatment: 3 separate liquid chemistries were fed from drums into each of the 6 towers.
- The plant used 60 chemical drums per year for water treatment.

CLARITY'S SOLUTION & KEY OUTCOMES

Implemented Clarity's EcoSHIELD and EcoSAFE water treatment technologies.

In addition to improving boiler efficiency and reducing fuel and water usage, these technologies greatly reduced the volume of chemical drums and electric pumps utilized at the plant.

- EcoSHIELD boiler water treatment was implemented. **1 drum of EcoSHIELD replaced 4 different boiler chemicals and eliminated the need for 3 separate day tanks and pumps.**
- EcoSAFE solid feed water treatment for cooling towers was installed at all 6 cooling stations. This eliminated the need for 3 separate liquid chemicals to be fed from drums into each tower.



Plastic Chemical Drums:

60 drums/year reduced to **4** drums – a **93%** reduction in drums used.

Day Tanks and Electric Pumps:

Eliminated the need for **3** day tanks and **21** pumps, reducing electric usage.

Reduction in CO₂ Emissions:

Over **2,500 lbs/year** as a result of fewer drums and reduced electric pump usage.

**Contact Our Water Treatment Experts
for a FREE Consultation!**

(845) 589-0580

claritywatertech.com

