



## HEATSPONGE BOILER ECONOMIZER CASE STUDY

# Art Institute of Chicago

When the Art Institute of Chicago was faced with the need for a custom designed economizer to accommodate their physical constraints they turned to BEI and a HeatSponge Titan model economizer to solve their problem. The engineers at BEI worked in conjunction with their local representative, Meilner Mechanical, as well as the customer and their engineers to design a horizontal gas flow economizer that would provide the performance they requested while fitting into the limited available space above the boiler. These economizers provide the Art Institute with annual fuel savings over **\$ 90,000** and earned them a rebate of **\$ 154,138.00**.



The Art Institute's economizer installation was engineered by McGuire Engineers. Their Project Manager noted the superiority of the design of these economizers. Hill Mechanical of Franklin Park, IL, the Mechanical Contractors for the project, noted that "This was an interesting project and it required a great deal of coordination to put these economizers into a working steam plant. The space we had to work with was tight, and the plant needed to be continuously in operation during the installation phase. The economizers themselves are large, so it was kind of like putting a ship in a bottle. We were really pleased by the ingenuity of our team, who devised and executed the rigging and placement of these large components."

As part of this project the Art Institute took advantage the Commercial and Industrial Custom Rebate Program administered by Peoples Gas, Light and Coke. Franklin Energy, the firm contracted to administer the program noted "We were excited about this project. These are among the largest economizers we have seen installed under the program. The value we brought to the project through the rebate program was to fund the initial feasibility study by McGuire Engineers and to help the Art Institute fund the installation. We hope that the Art Institute's adoption of this technology will encourage others in the Chicago area to pursue waste heat recovery and to consider participating in the rebate program."

