



## **PROJECT SUMMARY & REFERENCE**

### **CITY OF PITTSBURGH WATER & SEWER AUTHORITY**

### **COMPREHENSIVE ENERGY AUDIT**

#### **Project Summary**

Bridgestone Associates performed a detailed energy audit of Authority buildings and facilities. Work included gathering billing data, analysis of electric and gas bills and tariffs, review and evaluation of building systems including lighting, HVAC and building envelope, and review and evaluation of Authority pumping plants. Because of the topography of the City of Pittsburgh, the Authority has significant pumping requirements due to elevation changes. The evaluation of on- and off-peak pumping and the reservoir and tank capacity was examined and evaluated in detail.



#### **Project Statistics**

Client:	Pittsburgh Water & Sewer Authority (PWSA)
Project Type:	Comprehensive Energy Audit, Pumping and CHP Study
Connections:	85,000 (approx.) Water, 110,000 (approx.) Sewer
Customers:	250,000 (approx.)
Size:	2 Water Treatment Plants, 11 Pump Stations, 1,000 miles (approx.) Water Lines, 1,300 Miles (approx.) Sewer Lines, 7,500 (approx.) Fire Hydrants
Plant Type:	Waste Water Treatment Facility with tertiary treatment
Plant Location:	Pittsburgh, Pennsylvania, USA
Plant Elevation:	Ross Water Treatment and Pump Station - 725 feet above sea level
Water Intake:	Allegheny River
Electricity Utility:	Duquesne
Contract Value:	US\$40,000 (part of a larger \$200,000 study for the City of Pittsburgh)