

energy savings in Springfield, MA



Serving over 275,000 people across seven municipalities, SUEZ' partnership in Springfield, MA has been significantly reducing energy consumption and greenhouse gas emission since 2000.

The Springfield Regional Wastewater Treatment Facility — the second largest and most progressive wastewater facility in New England, which cleans, treats and discharges an average of 40 million gallons of wastewater each day — is now operating more efficiently than ever before. The facility, owned by the Springfield Water and Sewer Commission, treats wastewater from the households, businesses and industries within Springfield and nearby communities.

working in partnership

SUEZ has also helped the Springfield Regional Wastewater Treatment Plant become an important and respected educational resource. To this day, every fifth grader and teacher in Springfield participates in the award-winning “The World is Our Classroom” program. This hands-on curriculum explores science, math and engineering concepts at the Springfield Wastewater treatment facility.



our commitment to serving Springfield communities

Treatment consists of two major stages. During the primary treatment stage, sand, grit and solids are removed from the untreated sewage. The secondary treatment phase uses bacteria to further break down the dissolved solids, which produces sludge. The treated wastewater is then separated from the sludge and cleansed and disinfected before being released into the Connecticut River in compliance with the facility’s National Pollution Discharge Elimination System (NPDES) permit issued by the US Environmental Protection Agency and the Massachusetts Department of Environmental Protection. SUEZ is responsible for the biological treatment, disinfection and chlorination of the wastewater that flows through the plant.

Under the terms of our contract, SUEZ implemented \$14 million worth of capital improvements, including the design, build and operation (DBO) of a biosolids handling system, as well as a combined sewer overflow monitoring and reporting system. Recently, simple changes in blower equipment and lighting choices resulted in significant energy savings for the site, and provides a more sustainable footprint for SUEZ to operate and maintain. We seek to optimize energy

usage at every facility, but especially in the wastewater realm, where equipment to process wastewater and dry sludge is very energy-intensive.

In addition to helping protect water resources, SUEZ upgrades at the plant resulted in \$500,000 in electrical power savings and a significant decrease in the use of natural gas.

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