



CASE STUDY

PHILADELPHIA WATER DEPARTMENT, PA

TECHNOLOGY TYPE

BIOGAS
COGENERATION
RENEWABLE ENERGY

FACILITY SIZE

190
MILLIONS OF GALLONS
PER DAY

ENERGY PROJECT SIZE

\$47.5
MILLION

PROJECT CAPACITY

5.6
MW

ENERGY SAVINGS
OVER CONTRACT:

\$12,000,000

SUMMARY

The Philadelphia Water Department (PWD) and Ameresco partnered to optimize the facility's energy usage, improving the region's water supply and management system.

SERVICES PROVIDED

PWD and Ameresco partnered in a \$47.5 million project to design, build, and maintain an innovative wastewater biogas-to-energy facility cultivating a more efficient energy approach.

- Effective wastewater and stormwater management systems
- System for refining and utilizing biogas as fuel for facility equipment
- Generate supply of electricity and thermal energy for use on-site



“ Recovering the hidden fuel in our wastewater treatment processes helps to diversify our energy portfolio, while improving the environment through innovative, green technology. ”

Howard Neukrug
Water Commissioner, Philadelphia Water Department

CUSTOMER BENEFITS

PWD was able to reduce annual energy costs and utilize more renewable energy resources. With the improvements made, The City of Philadelphia takes a large step towards achieving its goals outlined in Mayor Nutter's Greenworks Plan.

- Provided secure source of renewable energy
- Reduced need for energy from power plants fueled by fossil fuels
- Reduced annual energy costs
- Project received \$17 million in incentives, lowering cost to taxpayers
- Economic Opportunity Plan brought green jobs to local community
- Provide adequate and reliable water supply for community needs
- Saves the Equivalent of 27,870 tons of CO₂ per year

For the full story, visit: ameresco.com