

Northeast Treatment Plant

Biogas Cogeneration Facility



PHILADELPHIA
WATER

Providing up to 85% of On-Site Electricity Needs with Green Power

In December of 2011, Philadelphia Water finalized an agreement to bring green power to the Northeast Water Pollution Control Plant. A new facility was constructed to capture methane generated from the existing wastewater treatment process. The captured biogas is used to meet all of the process heat needs and can produce 85% of the electrical requirements for plant operations when enough organic matter is available. With more organic matter, our digesters can make more biogas and we can use it to make more green power.

How Biogas Cogeneration works

Biogas is produced by the anaerobic decomposition of organic matter in a wastewater treatment plant's anaerobic sludge digesters. Digester biogas is treated to remove impurities before being used as fuel in large engines that generate electric power. Look on the back of this sheet for an infographic detailing the whole process at our facility.



PWD's Energy Plan

In alignment with the City's *Greenworks Philadelphia* Initiative, Philadelphia Water developed a Utility-Wide Strategic Energy Plan, establishing energy conservation and generation objectives for the Department. This is one of a series of reports on our progress in achieving its strategic energy objectives.



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