



## Project Highlight

# San Antonio Water System, TX

AMERESCO 

San Antonio Water System  
Processes 1.5 Million Cubic  
Feet of Biogas Daily

### Technology Type:

Biogas | Design-Build | Own, Operate & Maintain |  
Power Purchase Agreement | Wastewater

### Natural Gas Delivered Daily

**900,000** cubic feet

### Biogas Processed Daily

**1.5M** standard cubic feet

### Recycled Water Daily Community Use

**115M** gallons

### Estimated Annual Royalties

**\$200,000**



### Summary

Located in Bexar County, TX, San Antonio Water System (SAWS) partnered with Ameresco under a Power Purchase Agreement to create a biogas project that was the first sustainable project of its kind in the nation.



## Solution

Ameresco restructured SAWS to utilize all the elements from the processing of wastewater and support a positive environmental outcome. The new system takes biogas generated during the sewage treatment process, captures it, then sells it through a commercial gas pipeline.

- Provide wholesale water supplies to several smaller utility systems
- 115 million gallons of high-quality recycled water used daily by community
- Estimated annual royalty of \$200,000 received on sale of gas
- Plant capacity of 4.8 MW



**SAWS is constantly improving its operations to become more sustainable... By reusing biogas instead of burning it off, we are helping protect the city's air quality and developing a renewable energy source.**

*Robert R. Puente  
President/CEO  
San Antonio Water Supply*



## Benefits

The improvements made to SAWS complete a "recycling trifecta" where they recycle or reuse almost all the waste coming into Dos Rios. Over the 20-year term, the project will provide significant improvement to the environment around the SAWS Wastewater Treatment Plant through the major reduction of flared emissions at the site.

- At least 900,000 cubic feet of natural gas transferred to commercial pipeline
- 80% of biosolids remaining generate compost used to improve soil quality
- Process over 1.5 million standard cubic feet of natural gas per day
- Methane gas captured and sold commercially
- Utilize biogas as a green energy source
- Annual reduction of 19,739 tons of CO<sub>2</sub> equivalent of heating 4,689+ homes

Ameresco's team of energy experts can assist you in identifying the solution that fits your needs.

For more information about Ameresco and our full-range of energy efficiency and renewable energy solutions, please call **1-866-AMERESCO** or visit **ameresco.com**.

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