



Project Highlight

City of Phoenix's 91st Avenue Wastewater Treatment Plant, AZ

AMERESCO 

The 91st Avenue Wastewater Treatment Plant is Now Capable of Processing Raw BioGas at a Rate of 3,250 scFM

Technology Type:

Design-Build | Own, Operate, and Maintain | Wastewater Biogas-to-Renewable Natural Gas

Contract

20-Year Biogas Purchase
Site Lease Agreements

Facility Size

~1 acre of land connected to an interstate pipeline via 3-mile RNG pipeline

Capable of Processing Raw BioGas

3,250 standard cubic feet per minute

Annual RNG Injection Into Commercial Pipeline

693,500 DTH



Summary

Ameresco designed, built, owns, operates, and maintains (DBOOM) the largest wastewater treatment biogas-to-renewable natural gas (RNG) facility of its kind in the United States. The wastewater treatment plant (WWTP) is owned by the sub-regional operating group (SROG) member cities: Phoenix, Glendale, Mesa, Scottsdale, and Tempe and is operated by the City of Phoenix.



Solution

Using innovative energy technologies, Ameresco processes raw biogas generated at the 91st Avenue Wastewater Treatment Plant (WWTP) into renewable natural gas (RNG) suitable for injection into the nation's high-pressure natural gas pipeline. The RNG is sold on the open market as vehicle fuel under the EPA's Renewable Fuel Standard Program.

- Biogas purchase and site lease agreement
- Design, build, own, operate, maintain WWTP
- 3-mile renewable natural gas pipeline
- Interstate pipeline connection



“**This innovative partnership allows us to turn waste into resource by converting biogas, a byproduct of wastewater treatment, into renewable energy. This not only benefits our regional economy, but also reduces greenhouse gas emissions. Phoenix has set ambitious sustainability and renewable energy goals, and this kind of public-private partnership will help us get there.**”

Kate Gallego
Mayor, City of Phoenix



Benefits

Through a public-private partnership, Ameresco's processing plant utilizes a previously untapped energy resource by "cleaning" raw biogas generated at the WWTP into RNG, a carbon-neutral green energy commodity.

- Royalty payments from raw biogas sale
- Operational and maintenance savings for the wastewater treatment plant
- Achievements towards sustainable and renewable energy goals
- SROG reduces footprint by 44,671 metric tons of CO₂ per year which has an equivalent green benefit of roughly 70,452 cars taken off the road annually

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**.

