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## NEWS RELEASE

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### For Immediate Release

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## **Roanoke Gas Company and the Western Virginia Water Authority break ground on a facility to convert biogas into renewable natural gas for the benefit of the community**

ROANOKE, VA – The Western Virginia Water Authority (Authority) and Roanoke Gas Company (Roanoke Gas) have entered into a cooperative agreement to produce commercial quality renewable natural gas, or RNG, from bio gas produced at the Roanoke Regional Water Pollution Control Plant. This RNG product, the first of its kind in the Commonwealth, will necessitate construction of a digester gas conditioning system and interconnect facility at the Water Pollution Control Plant (WPC Plant). Representatives from the Authority, Roanoke Gas and the community will break ground on this project Tuesday, May 17 at 2 pm at the Roanoke Regional WPC Plant.

Biogas, also known as digester gas in wastewater treatment, a mixture of methane (63%) and carbon dioxide (37%), is produced as a by-product of the anaerobic digestion treatment process as bacteria consume the organic solids that are removed earlier in the wastewater treatment process. Anaerobic digestion is employed at the WPC Plant as it is a much more energy efficient way to treat solids compared to other methods such as aerobic digestion and heat drying. “While this gas has been used as a fuel source at the facility over the years, this exciting next generation of resource recovery of digester gas will utilize a new approach to maximize the benefit to the broader community” according to Michael McEvoy, Executive Director Western Virginia Water Authority.

Utilizing an advanced membrane separation system, raw digester gas will be refined to commercial quality natural gas for use within the greater Roanoke community, creating the potential for the protection of the environment and complete recycling of waste at a level only imagined a decade ago. This cooperative project is an example of another area for energy recovery beginning to be realized within the wastewater treatment industry and will have far reaching benefits within our community and beyond. At full buildout, the proposed digester gas conditioning system will have the ability to treat a biogas design flow of 550,000 cubic feet per day (cfd) to create commercial quality RNG.

The initial treatment of the biogas includes a pretreatment step which removes hydrogen sulfide, moisture, siloxanes, and VOCs. A membrane filter system will remove the carbon dioxide (CO<sub>2</sub>) and help polish the gas to commercial quality. In the design of this particular installation, a third stage of membranes, located inside the digester gas conditioning system, will further treat all the produced tail gas and recover residual methane. Compression is required to boost the digester gas to pipeline pressure at the interconnect facility.

Multiple treatment technologies were evaluated and the selected company, Unison Solutions, is a recognized industry leader in biogas treatment technology. Unison has a demonstrated history of success providing the treatment technology for similar gas treatment projects as this market emerges within the United States.

“We are thrilled to have the opportunity to partner with the Western Virginia Water Authority on such an impactful and needed project,” stated Paul Nester, president and CEO of Roanoke Gas Company. “Our shared desires to improve the environment, utilize the best technology and most importantly, serve this community, have spurred approximately \$16.5 million dollars of combined investment and added a much needed source of safe, clean natural gas.” Roanoke Gas projects this new supply source will provide enough natural gas to heat 500 homes on a cold, winter day.

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#### **ABOUT THE WESTERN VIRGINIA WATER AUTHORITY**

The Western Virginia Water Authority employs over 300 employees to provide drinking water for the City of Roanoke and the Counties of Roanoke, Franklin and Botetourt and sanitary wastewater service for the greater Roanoke Valley. At the Roanoke Regional Water Pollution Control Plant, an average of 37-million gallons of wastewater is treated daily from all jurisdictions in the Roanoke Valley. The Roanoke Regional Water Pollution Control Plant (WPCP) is an advanced treatment wastewater facility currently permitted to treat 55 Million Gallons per Day (MGD) of wastewater per day with an average daily flow of 37 MGD. Sanitary sewer from businesses and residences in the Cities of Roanoke and Salem, the Counties of Roanoke and Botetourt and the Town of Vinton are fully treated at this regional facility. The WPCP has a history of utilizing forward thinking approaches throughout the life of the facility, and was one of the first plants in the Country to attempt to beneficially utilize the digester gas produced in the solids treatment process. Additional information on the Authority is available on our website at [www.westernvawater.org](http://www.westernvawater.org).

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#### **ABOUT ROANOKE GAS COMPANY**

RGC Resources, Inc. provides energy and related products and services to 63,000 customers in Virginia through its operating subsidiaries Roanoke Gas Company and RGC Midstream, LLC. The statements in this release that are not historical facts constitute “forward-looking statements” made pursuant to the safe harbor provision of the Private Securities Litigation Reform Act of 1995 that involve risks and uncertainties. In order to comply with the terms of the safe harbor, the Company notes that a variety of factors could cause the Company’s actual results and experience to differ materially from any expectations expressed in the Company’s forward-looking statements, including regarding customer growth, infrastructure investment and margins. These risks and uncertainties include gas prices and supply, geopolitical considerations and regulatory and legal challenges and those set forth in the Company’s Form 10-Q for the quarter ended March 31, 2022. Forward-looking statements reflect the Company’s current expectations only as of the date they are made. The Company assumes no duty to update these statements should expectations change or actual results differ from current expectations except as required by applicable laws and regulations. Past performance is not necessarily a predictor of future results. Additional information on Roanoke Gas Company can be found on their website at [www.roanokegas.com](http://www.roanokegas.com).