

The Water Outlook: Solutions for Current and Future Challenges

Keynote Speaker

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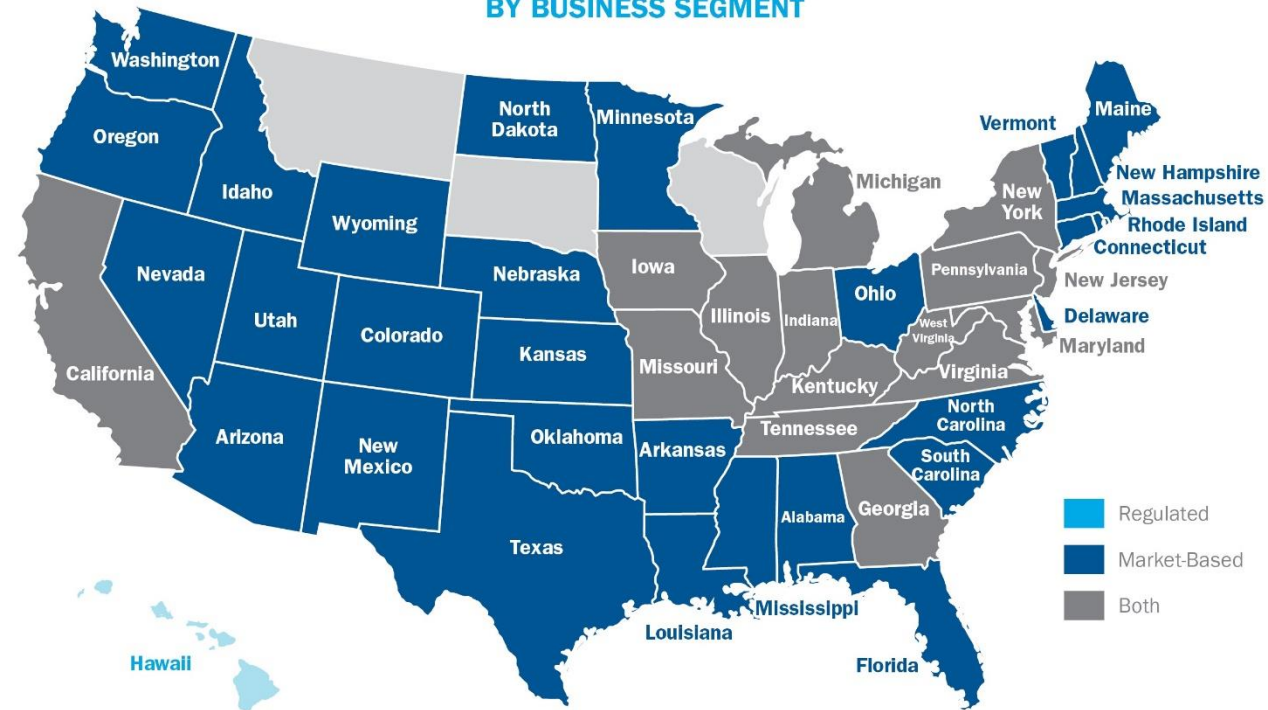
AMERICAN WATER

WHO WE ARE

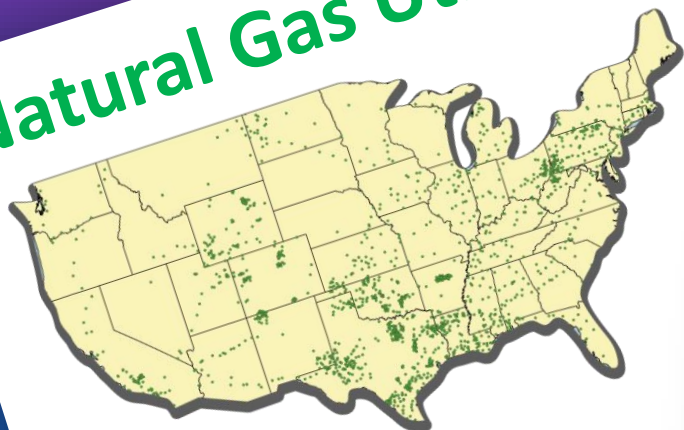
We are the largest and most geographically diverse publicly traded water and wastewater service provider in the United States.

- ★ We serve a broad national footprint and a strong local presence.
- ★ We provide services to approximately **14** million people in **46** states.
- ★ We employ **7,100** dedicated and active employees and support ongoing community support and corporate responsibility.
- ★ We treat and deliver more than **one billion** gallons of water daily.

AMERICAN WATER FOOTPRINT
BY BUSINESS SEGMENT



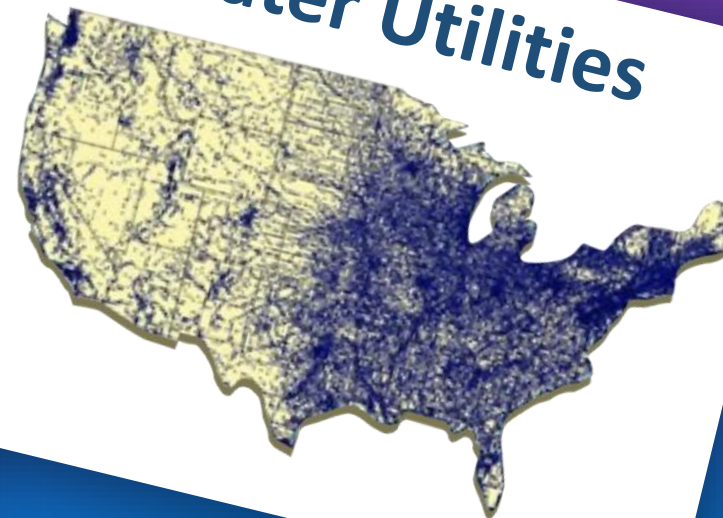
Natural Gas Utilities



Electric Utilities



Water Utilities



Highly fragmented industry

Gas Utilities Source: EPA F.L.I.G.H.T. Greenhouse
Gas Emissions from Large Facilities
[Ghgdata.epa.gov/ghgp/main.do#](https://ghgdata.epa.gov/ghgp/main.do#)

Electric Utilities Source: Form EIA-861 detailed data files
www.eia.gov/electricity/data/eia8

Water Utilities Source: EPA SDWIS Federal Reports Search
www3.epa.gov/enviro/facts/sdwis

Bel Air's Water Supply Challenges



- Winters Run, Bel Air's water source, did not provide adequate supply during droughts as required by state regulators. Flows have reached as low as 0.2 mgd
- Passing flow requirement of 6.07 mgd limited withdrawal from Winters Run during drought
- Maryland American Water previously purchased extra water from Harford County – not a reliable alternative
- Reviewed number of possible solutions

Maryland American Water Solution: Reservoir



**Construction
2017-2019**



Reservoir Operational – January 2019

- Cost-effective solution
- Built off Winters Run near current water treatment plant
- Water pumped from Winters Run to fill reservoir
- Smaller footprint - 11.5 acres
- Provides 90 million gallons of storage; 100 day water supply
- Added benefit of emergency and redundancy
- Does not impede stream flows
- Does not disrupt local ecology



New Jersey American Water – Pipe Lining Project

- 60" Prestressed Concrete Cylinder Pipe – environmentally sensitive and residential area; South Plainfield NJ
- Condition assessment indicated pipe deterioration/leakage
- Rehabilitation with Innovative Carbon Fiber Pipe lining technology – 3500 Linear Feet
- Construction of access points and isolation valves included
- Critical infrastructure serving >1M customers and very large customers in Linden NJ – refineries, manufacturing
- Picture: pipe section is isolated and cleaning/preparation being performed.



Raritan Millstone New Jersey American Water's Largest Water Treatment Plant



<https://youtu.be/y8-eGAqgvkg>