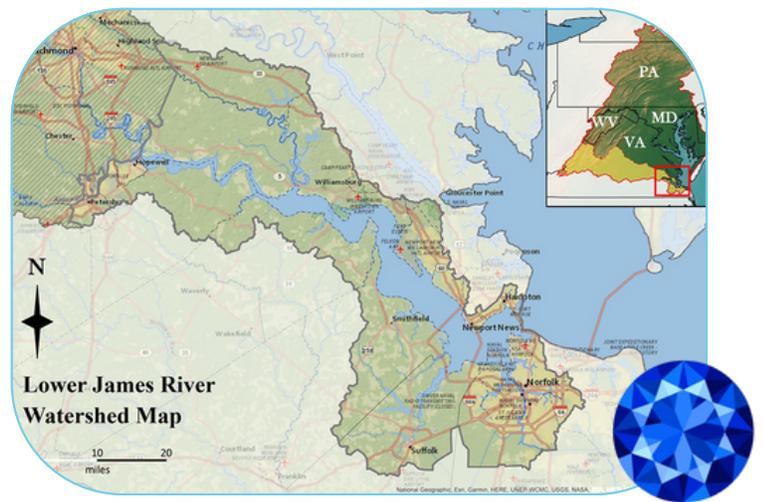


Project Hope Delivers Extensive Water Reuse Capacity In A Data Center Hotspot

Partnering with Blu Diamond to Deliver Long-Term Sustainable Water Stewardship Through Insured Water Certificates

The Challenge

Richmond, Virginia has emerged as one of the fastest growing data center markets in the world, with new facilities being built at an unprecedented rate. Hyperscale data centers each require up to 2 million gallons of water per day (MGD) for cooling. This places intense strain on the James River Watershed & Drainage Basin, which already struggles to support the growing population of nearly 3 million residents in the region.



Without a new approach to water stewardship and infrastructure financing, the combined water demand of data centers, local industry, and a growing population risks overwhelming capacity, jeopardizing long-term sustainability and future availability of water across the region.

The Solution



To ensure water resilience and reduce dependency on the already strained municipal water system, Project Hope is introducing a state-of-the-art industrial water reuse system with capacity to produce 7 MGD of industrial grade city water at a major industrial manufacturing facility in the region. By reusing treated wastewater, the system reduces demand on the local municipal water system while improving downstream water quality in the James River and Chesapeake Bay.

R3 Sustainability is leading the charge on Project Hope. However, due to extremely low water rates in the region, R3 and the manufacturing facility's owner cannot fund Project Hope by themselves. That is where Blu Diamond's water offsets come in.

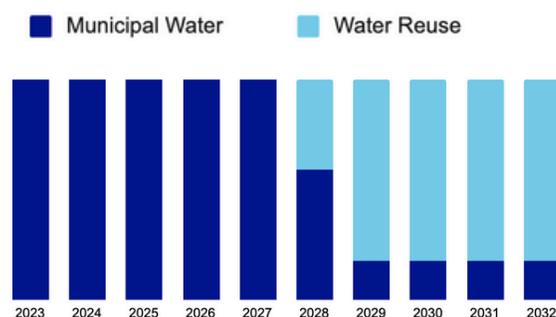
The Advantage

BluDiamond's innovative model goes beyond traditional offsets by enabling institutional investors to participate through forward purchase of Insured Water Certificates. These Certificates represent verifiable water conservation outcomes, tracked in real time through sensors and auditable processes. Backed by investment-grade insurance, BluDiamond mitigates risk by ensuring outcomes are scalable, measurable, and bankable.

The Results

Project Hope will replace the equivalent freshwater demand of at least three hyperscale data centers in the Richmond region, while reducing nutrient loading into the James River. The facility is designed for a 30+ year lifespan, with commercial operations targeted for 2028 following an 18-month development and construction timeline.

This investment opens a new path for industrial operators to secure their own growth while strengthening regional water sustainability. By providing up to \$90 million in insured water offset financing to unlock 7 MGD of reuse capacity in a stressed watershed, Project Hope will demonstrate how private industry, institutional capital, and innovative insurance models can align to deliver long-term water security.



About Blu Diamond

Blu Diamond unlocks institutional capital for water projects using an innovative, data-driven approach to deliver insurance-backed water offsets for water positive outcomes.



Develops and monitors impactful water reuse and conservation projects.



Ensures compliance and transparency with auditable workflows to maintain process integrity.



Provides fiduciary governance and parametric insurance to guarantee offset performance.

Want To Learn More About Project Hope and Blu Diamond's Innovative Approach to Industrial Water Financing?

Reach out today to get started:
kyle@r3sustainability.com



Blu Diamond