

# Tidal NRG and Innov8 Gases Partner to Pioneer Helium Cooling for AI Data Centers

*Collaboration Targets Water-Free, Energy-Efficient Thermal Management for Next-Gen AI and HPC Infrastructure*

Tidal NRG, LLC and Innov8 Gases Corp today announced a definitive agreement to co-develop proprietary helium-based cooling solutions tailored for artificial intelligence (AI) and high-performance computing (HPC) data centers. This partnership combines Innov8's extensive helium resources with Tidal's expertise in AI infrastructure to tackle one of the most urgent challenges in modern computing - thermal management.



Under the agreement, both companies will co-develop intellectual property (IP) focused on next-generation cooling technologies. Tidal NRG will also enter into a long-term helium offtake agreement and make a minority equity investment in Innov8 Gases, aligning both companies for scalable deployment.

## Breakthrough in Cooling Performance

The new systems will address the extreme heat generated by AI model training and data-intensive workloads. Helium's high thermal conductivity, low viscosity, and inert properties offer major performance advantages over traditional media like water or chilled air - delivering greater energy efficiency and long-term sustainability.

"This marks a major advancement in sustainable digital infrastructure," said **Chad Swensen**, CEO of Tidal NRG. "Helium allows us to improve cooling efficiency while eliminating environmental tradeoffs that threaten the scalability of AI computing."

**Alan Gaines**, Executive Chairman and co-founder of Innov8 Gases, added, "AI's exponential growth demands transformative solutions. This partnership positions us to lead a new era in data center thermal management."

## Key Advantages

- **AI-Ready Design:** Optimized for hyperscale and high-density workloads.
- **Water-Free Operation:** Fully eliminates cooling-related water use - a growing concern for

regulators and communities.

- **Co-Owned IP:** Innovations developed will be shared equally by both companies.
- **Environmental Impact:** Targets significant reductions in power and resource consumption.

## Market Relevance

The global data center cooling market is expected to surpass **\$30 billion by 2028**, driven by AI adoption. However, traditional cooling methods - especially those reliant on water - are facing mounting criticism. A 100MW data center can consume over **2 million liters of water per day**, and companies like Google used more than **8 billion gallons** in 2024 alone.

This level of resource demand has led to public pushback, stricter regulation, and delays or cancellations of more than **\$60 billion** in U.S. data center projects. Helium-based cooling offers a path forward that avoids these bottlenecks while enhancing system performance and environmental responsibility.

## About Tidal NRG

Tidal NRG builds AI-driven infrastructure and clean energy solutions. CEO Chad Swensen is a patent-holding entrepreneur known for launching scalable AI platforms, including Lantern Credit.

## About Innov8 Gases Corp

Innov8 Gases is a privately held supplier of specialty gases - helium, green hydrogen, nitrogen, and food-grade CO<sub>2</sub> - serving industrial, medical, and scientific markets with advanced gas technologies.

## Forward-Looking Statement

*This release contains forward-looking statements subject to risks and uncertainties. Actual outcomes may vary due to changes in market or regulatory conditions.*

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## About TIDAL NRG LLC

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TIDAL NRG LLC is a power infrastructure and data center provider. TIDAL NRG brings innovation into the ever demanding AI market,

<http://www.tidalnrg.com>

## Company Address

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