

NEWS RELEASE

Helium-Powered Tech Poised for Mass Adoption as Cryogenic Computing Advances Accelerate

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Technology, Space & Energy

California-based **Snowcap Compute's recent \$23 million raise for its superconducting AI chip platform** signals the arrival of cryogenics-driven computing, powered by helium.

By cooling processors to 4.5 Kelvin, Snowcap's superconducting chips promise performance that far surpasses today's leading AI capabilities - while consuming only a fraction of the energy. Crucially, these chips can be manufactured using existing semiconductor fabrication infrastructure, allowing current production lines to pivot with ease. This breakthrough positions helium not just as a scientific tool, but as essential infrastructure for the next era of high-performance computing.

As AI and high-performance computing workloads continue to scale, they're increasingly dependent on vast amounts of electrical power. But there is a ceiling to how much electricity can realistically be committed to supporting computing infrastructure - especially as demand begins to outpace grid capacity. This constraint makes helium-cooled cryogenic systems a critical breakthrough, enabling faster, radically more energy-efficient processing.

As cryogenic computing readies itself for the mainstream - led by innovators like **Snowcap Compute** - helium is set to move from niche to necessity. Cooling systems operating at ultra-low temperatures rely on helium, and as superconducting hardware hits the mainstream, helium demand is poised to surge. This is more than a technical breakthrough - it marks a turning point, with helium set to become foundational and key enabler of sustainable, mass-market computing.

Helium is increasingly recognized as the connective tissue linking AI, Web3, and quantum-adjacent technologies. As its role in powering advanced systems expands, constrained supply and accelerating demand are expected to drive long-term value - positioning helium as a strategic enabler of next-generation computing.

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Superconducting platforms like Snowcap promise transformative performance and radical energy efficiency - which could, perhaps for the first time offer a truly scalable, sustainable and environmentally compatible path forward for next-generation data centres. Helium sits at the heart of this shift, and as use cases broaden and scarcity deepens, its strategic value increases.

The smart money is already looking ahead

In the race to build tomorrow's technology, helium is emerging as one of the most critical inputs. Its unmatched cooling properties make it critical to the infrastructure powering everything from AI models to hyperscale data centres. As superconducting platforms move from concept to commercial reality, demand for helium is poised to surge.

With U.S. helium production in decline and policy momentum shifting toward domestic resource security, forward-thinking investors are moving to gain exposure to strategic, early-stage helium assets - recognising that without helium, the future of high-performance computing may be at risk.

Pulsar offers a unique on-ramp into this next wave of innovation. As cryogenic technologies advance and global supply chains tighten, the question is no longer if helium will power the future - but who will own it.

Pulsar Helium's shares trade on TSXV: PLSR | OTCQB: PSRHF | AIM: PLSR

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