Boom Supersonic Raises $300M to Power AI Data Centers with Natural Gas Turbines

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Boom Supersonic secures $300 million in funding and a $1.25 billion order from Crusoe to build 42 MW natural gas Superpower turbines, delivering over 1.2 GW of capacity for AI data centers and advancing both energy infrastructure and supersonic engine development.

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Boom Supersonic Raises $300M to Power AI Data Centers with Natural Gas Turbines

Boom Supersonic is pivoting core aerospace engine technology into a new energy mission—deploying high-performance natural gas turbines to meet the surging power demand of artificial intelligence data centers while accelerating its supersonic aircraft ambitions. ([TechCrunch][1])

Boom Supersonic, the aerospace company best known for its work on supersonic airliners, has raised $300 million in new funding to commercialize a natural gas turbine designed specifically for large-scale AI data center power generation. ([Boom][2])

A New Energy Mission for Supersonic Tech

The funding round, led by Darsana Capital Partners with participation from Altimeter Capital, ARK Invest, Bessemer Venture Partners, Robinhood Ventures, and Y Combinator, is earmarked to accelerate development and deployment of Superpower—a 42-megawatt natural gas turbine built on the core technology of Boom's supersonic aircraft engine. ([Boom][2])

Unlike many traditional industrial turbines, Superpower leverages high-temperature supersonic engine design principles to maintain output even in demanding conditions and does so without requiring a dedicated water supply—a critical advantage in regions where water is a constrained resource. ([Business Wire][3])

Crusoe Orders Gigawatts of Capacity

Boom's launch customer is Crusoe, a leader in energy-first AI infrastructure. Crusoe has agreed to purchase 29 of the Superpower turbines—each rated at 42 MW—for a combined generating capacity of 1.21 gigawatts at a total contract value of approximately $1.25 billion. ([TechCrunch][1])

Deliveries for the turbines are slated to begin in 2027, with production scaling up in subsequent years as Crusoe expands and other data center builders seek reliable on-site power. ([TechCrunch][1])

Why On-Site Power Matters

AI data centers consume massive amounts of continuous power to support training and inference tasks, driving demand for reliable and flexible generation capacity. Traditional grid connections can take years to permit and build, prompting data center operators to seek on-site generation solutions that are modular, scalable, and capable of backing up or fully powering facilities without long grid waits. ([Financial Times][4])

Boom's Superpower turbines fit into standard shipping container form factors, making deployment faster and more geographically flexible than conventional large power plants. Their water-free operation and ability to maintain rated output at high ambient temperatures make them especially suited for large AI campuses in warm climates. ([Business Wire][3])

Funding That Funds Two Futures

While the $300 million round directly supports the Superpower energy business, it also advances Boom's broader long-term goal of developing certified supersonic passenger aircraft. Operating Superpower units in the field will generate valuable operational data and revenue, helping to underwrite ongoing work on Boom's Symphony engine and future airliner programs. ([Boom][2])

According to Boom's leadership, the intelligence behind supersonic engines offers an "accelerant" for power generation—bringing innovations from aerospace into the heart of a rapidly evolving data infrastructure ecosystem. ([Boom][2])

Looking Ahead