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Supercritical CO₂

Sandia National Laboratories and eight other companies and research organizations will collaborate to advance a distributed power system to produce cleaner, more efficient electricity. Their work will focus on the development of a fossil-fueled energy system based on supercritical carbon dioxide (SCO₂) Brayton cycle technology.

Organizations working with Sandia include Peregrine Turbine Technologies, PTT Distributed Energy Systems, Vacuum Process Engineering, Mid-South Engineering, CFD Research, U.S. Space & Rocket Center at NASA's Marshall Space Flight Center, Government Energy Solutions and the Energy Huntsville Initiative.

Peregrine Turbine Technologies is developing a power generation turbine engine that uses SCO₂ as a working fluid. It is said to be 30% to 60% more efficient than current technology.