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## **PRESS RELEASE**

FOR IMMEDIATE RELEASE

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# **EXCEED GEO ENERGY and Peregrine Turbine Technologies Announce Collaboration to Deploy Breakthrough Supercritical CO<sub>2</sub> Geothermal Energy**

*Austin, TX & Wiscasset, ME*— EXCEED Energy Inc. (EXCEED) and Peregrine Turbine Technologies (PTT) are excited to announce a strategic collaboration to deploy EXCEED's next-generation **Infinity-Loop™ geothermal energy system**—an innovative platform combining advanced subsurface drilling, surface energy conversion, and integrated carbon sequestration.

At the heart of the Infinity-Loop™ is the use of **supercritical CO<sub>2</sub> (sCO<sub>2</sub>)** as a working fluid, which significantly boosts heat extraction and power conversion—achieving up to **50% higher energy yields** than conventional geothermal systems. This closed-loop system circulates sCO<sub>2</sub> through precision-engineered wellbores to extract heat from deep rock formations without releasing greenhouse gases, delivering **sustainable, emission-free energy** while **sequestering carbon** in the process.

The partnership leverages EXCEED's expertise in **deep horizontal drilling** in **ultra-high-temperature dry rock**, coupled with advanced digital operations for **predictive performance, system optimization, and reliability**.

Power is converted using **PTT's high-efficiency sCO<sub>2</sub> turbines**, which outperform traditional steam turbines in efficiency, reliability, and compactness. Scalable from **10 to 50 megawatts (MWe)**, PTT's turbines are based on Brayton-cycle architecture and represent the next evolution in thermal power generation. Both companies' systems are **modular and scalable**, making them ideal for rapid deployment and expansion.

With a land-use footprint of just **1,000 square feet per MW**, EXCEED's geothermal facilities offer a dramatically lower spatial impact compared to wind, solar, and traditional baseload technologies—unlocking new opportunities for **clean, reliable power generation in space-constrained or environmentally sensitive areas**.

This collaboration reflects a shared vision: to redefine geothermal energy through **carbon-negative, baseload power and long-duration energy storage**. The system is ideally suited for a wide range of applications—from **data centers and utilities to industrial facilities, critical infrastructure, and remote or off-grid communities**.

#### **About EXCEED Energy Inc.**

EXCEED Energy Inc. is a global leader in geothermal innovation, delivering scalable, carbon-negative baseload power through cutting-edge technologies and unmatched field expertise. With over **150 years of combined experience**, EXCEED's team has drilled more than **3,250 oil and gas wells and 25+ geothermal wells**, making it one of the most technically capable companies in the geothermal sector. Learn more at [exceedgeoenergy.com](https://exceedgeoenergy.com).

#### **About Peregrine Turbine Technologies (PTT)**

Founded in 2012, PTT is a privately held company based in Maine, specializing in **advanced sCO<sub>2</sub> turbine development** for power generation, energy storage, and propulsion. PTT's technology has been supported by the **Air Force Research Lab (AFRL), Office of Naval Research (ONR), and Maine Technology Institute (MTI)**, and is backed by a **long-term CRADA with Sandia National Laboratories**. The leadership team brings together over **250 years of experience** across top aerospace and energy companies, including GE. Learn more at [peregrineturbine.com](https://peregrineturbine.com).