

**2.2X** more

calculations per watt of energy compared to its predecessor Eagle.¹

“Eliminating chillers is certainly a major feature for us in energy efficiency. With a PUE of 1.03, we are among the top few most energy efficient data centers in operation.”

Aaron Andersen, Group Manager for Advanced Computing Operations, NREL

Powered by Clean Energy, Kestrel Takes Flight at NREL with 4th Gen Intel® Xeon® Processors

The U.S. Department of Energy’s National Renewable Energy Laboratory (NREL) focuses on energy efficiency and renewable energy. NREL uses high-performance computing (HPC) systems to support the research done by staff and partners in industry and government. The laboratory currently supports over 300 projects and 1300 HPC users across as many as 60 institutions, according to Andersen. With the growing demand for computing capacity, NREL acquired a new system, Kestrel, planned for production this year. The 44 petaFLOPS Kestrel, built with 4th Gen Intel® Xeon® processors, provides five and a half times more computing capacity with 2.2x more power efficiency than Eagle, enabling NREL to support more innovative research and materials development with better power efficiency.²

Products and Solutions
[4th Gen Intel® Xeon® Scalable Processors](#)

Industry
Research Services

Organization Size
1,001-5,009

Country
United States

Partners
[HPE](#)

Learn more
[Case Study](#)