



PRESS RELEASE

TotalEnergies Develops Pangea 5, a Next-Generation Supercomputer That Will Increase its Computing Power Sixfold

Paris, May 6, 2026 – TotalEnergies, in collaboration with Dell Technologies and NVIDIA, announces the signing of a contract for the design and installation of Pangea 5, its next high-performance supercomputer. Hosted at the Jean Féger Scientific and Technical Center (CSTJF) in Pau, in the South of France, Pangea 5 will multiply the Company's computing power by six. It represents an investment of over 100 million euros.

A significant increase in computing power to support TotalEnergies' projects

With this increase in processing speed, Pangea 5 will:

- expand the deployment of advanced seismic engineering to enhance the accuracy of subsurface imaging and accelerate exploration to support the Company's strategy for low-cost and low-emission hydrocarbon production;
- support R&D uses of AI and meet growing digital needs to optimize computing times and deepen the understanding of complex phenomena like integrated power models.

Controlled Energy Consumption and CO₂ Emissions

Pangea 5 will rely on specialized processors, capable of massively parallel computations, offering greater energy efficiency than previous versions. At equal performance, Pangea 5's energy consumption will be reduced by approximately 40%, and its associated cooling system's consumption will be cut by a factor of five. The residual heat generated by the supercomputer will be recovered and used to help heat the buildings of the CSTJF, which host more than 2.500 people.

Pangea 5 will be first commissioned in 2027.

"Artificial intelligence and digital technology are strategic drivers of our energy transition. By increasing our computing power sixfold, we are strengthening our leadership in high-performance computing ensuring that our experts teams continue to have the means to push the envelope to support the development of our activities and meet the growing global demand for energy," said **Namita Shah, President, OneTech at TotalEnergies**.

"TotalEnergies is pushing the boundaries of high-performance computing, and we're delighted to be part of that journey. Pangea 5 will give TotalEnergies the computing power to accelerate discovery, increase efficiency and drive the energy transition forward - that's exactly the kind of outcome our collaboration is built for," said **Adrian McDonald, President, Dell Technologies EMEA**

"NVIDIA Compute, network and software platforms will provide Pangea 5 with exceptional parallel computing power, accelerating scientific workloads and opening new opportunities in artificial intelligence. With this choice of NVIDIA GPUs, CPUs and InfiniBand TotalEnergies is adopting an architecture capable of meeting the most demanding industrial and energy challenges, both today and in the years to come," said **John Josephakis, Vice President HPC & AI at NVIDIA**.

About TotalEnergies

TotalEnergies is a global integrated energy company that produces and markets energies: oil and biofuels, natural gas, biogas and low-carbon hydrogen, renewables and electricity. Our more than 100,000 employees are committed to providing as many people as possible with energy that is more reliable, more affordable and more sustainable. Active in about 120 countries, TotalEnergies places sustainability at the heart of its strategy, its projects and its operations.

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