

Could small modular reactors be a source of energy for Google?

Small modular reactors, such as the one by Kairos Power depicted in this illustration, could be a source of energy for tech companies like Google. To fuel the insatiable energy appetite of artificial intelligence, tech companies are going big on small nuclear reactors.

What is a small modular reactor?

Small modular reactors have a power output of less than 300 MWe. The term "modular" in the context of SMRs refers to its scalability and to the ability to fabricate major components of the nuclear steam supply system (NSSS) in a factory environment and then transport them to the site. Key characteristics:

Are small modular reactors a big part of nuclear power's future?

For over a decade, we've heard that small reactors could be a big part of nuclear power's future. Because of their size, small modular reactors (SMRs) could solve some of the major challenges of traditional nuclear power, making plants quicker and cheaper to build and safer to operate. That future may have just gotten a little closer.

Who is funding small modular reactors?

The U.S. Department of Energy has been funding development of small modular reactors. On October 16, the DOE announced \$900 million in funding for deployment of small modular reactors. And both X-energy and the Bill Gates-backed TerraPower are building demonstration projects with DOE support.

What is the NEA small modular reactor (SMR) dashboard?

"This second edition of the NEA Small Modular Reactor (SMR) Dashboard provides a snapshot of this critical moment in the evolution of nuclear energy.

Will X-energy build a small modular reactor?

Google announced October 14 that it would purchase energy from small modular reactors to be built by Kairos Power, which aims to have reactors starting up in the 2030s. And on October 16, Amazon announced an investment in the company X-energy and agreements with utility companies in Virginia and Washington state to establish small modular reactors.

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Small modular reactors (SMRs) are disrupting conventional notions surrounding nuclear power. Smaller, more compact, and producing minimal emissions, this innovative alternative to traditional nuclear power is receiving more public and private sector attention as governments across the world scramble to meet global energy needs reliably and ...

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The Department of Energy has allocated a large amount of capital to nuclear energy research and has committed \$900 million to advance Gen III+ (more on them below) small modular reactors (SMRs). The Inflation Reduction Act's inclusion of nuclear energy has opened opportunities for tax credits for investors in nuclear projects.

Rolls-Royce SMR is a low-cost clean energy solution, using proven and commercially available technology to deliver a fully integrated, factory built nuclear power plant. With a relentless focus on modularisation, and maximising the amount of work conducted under factory conditions, we are able to revolutionise how nuclear power gets delivered.

The Nuclear Energy Agency has published the latest version of the NEA Small Modular Reactor (SMR) Dashboard. This latest edition provides a comprehensive assessment of the progress made by 56 SMR designers and companies worldwide and reveals that since the publication of the inaugural volume of the Dashboard in March 2023, progress has been ...

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