

Will Virginia be the world's first grid-scale nuclear fusion power plant?

If all goes to plan, Virginia will be the site of the world's first grid-scale nuclear fusion power plant, able to harness this futuristic clean power and generate electricity from it by the early 2030s, according to an announcement Tuesday by the startup Commonwealth Fusion Systems.

Will CFS build a nuclear fusion plant near Richmond?

CFS, one of the largest and most-hyped nuclear fusion companies, will make a multibillion-dollar investment into building the facility near Richmond. When operational, the plant will be able to plug into the grid and produce 400 megawatts, enough to power around 150,000 homes, said its CEO Bob Mumgaard.

Will Virginia be the birthplace of commercial fusion energy?

"In the early 2030s, all eyes will be on the Richmond region... as the birthplace of commercial fusion energy," Mumgaard said. Virginia is also the world's largest data center market, a sector that requires huge and growing amounts of energy.

Will fusion power be available at grid scale?

"This will mark the first time fusion power will be made available in the world at grid scale," Mumgaard said. Virginia Gov. Glenn Youngkin welcomed the announcement, calling it "an historic moment for Virginia and the world at large."

Can nuclear fusion replace fossil fuels?

The world is desperate for a clean, abundant source of energy that can replace fossil fuels as an always-available baseload power: nuclear fusion promises to be just that. It involves fusing atoms together to create a powerful burst of energy, achieved using the most abundant element in the universe: hydrogen.

Why is Richmond the birthplace of commercial fusion energy?

The location was chosen for its growing economy, skilled workforce, clean energy focus and the ability it offered to connect into the grid after the retirement of a coal plant, CFS said. "In the early 2030s, all eyes will be on the Richmond region ... as the birthplace of commercial fusion energy," Mumgaard said.

Nuclear fusion development is advancing rapidly across the world, bringing the world closer to a limitless energy source, according to a new report published by GlobalData, Power Technology's parent company. According to the report entitled Fusion Visionaries: Start-ups Shaping the Future of Energy, start-ups are spearheading innovations like cold fusion, ...

3 ???· Virginia could soon make history as the home of the world's first nuclear fusion power plant, state officials and private sector leaders announced Tuesday. Commonwealth Fusion ...

In a joint statement published during Kishida's official trip to Washington, the Japanese Prime Minister and US President Joe Biden said that Japan and the US "are further leading the way in developing and deploying next generation clean energy technology, including fusion energy development".. The two nations will also look to "expand and modernise power ...

2 ???· The plant will generate 400MW of electricity, enough to power large industrial sites or 150,000 homes. Credit: Commonwealth Fusion Systems. Commonwealth Fusion Systems ...

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U.K. researchers this week offered the world a peek at their designs for a prototype reactor meant to show fusion power is practical, providing electricity to the grid by the early 2040s. To keep costs low, the Spherical Tokamak for Energy ... leader of the project and CEO of UK Industrial Fusion Solutions, a UKAEA subsidiary that will build ...

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In October, the UK picked the Midlands as the site to host its STEP fusion demonstration plant, a \$23.9bn fusion power station at the West Burton power station, currently the site of a coal-fired power plant in Nottinghamshire. The question remains, then, as to whether this project can revitalise nuclear power in the UK. Rebuilding an industry. Nuclear fusion, ...

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