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Gaia Vince watches the construction of the world's biggest fusion

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Looking to the future, OPG is investigating the production of new isotopes, like Helium-3 and Plutonium-238. Helium-3 is used in lung imaging, detecting nuclear bombs, and could act as a fuel source in future nuclear fusion plants, while Plutonium-238 is used to power spacecraft involved in deep space exploration.

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Mention nuclear fusion--the joining of two light atoms to form a heavier one--and most people think of bombs. But fusion has other uses, too. Inside an encapsulated space at Sandia National Laboratories in Albuquerque, New Mexico, scientists test the Z

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Machine, a pulsed power structure that uses electricity and magnetism to produce nuclear fusion.

Wonders of Nuclear Fusion: Creating an Ultimate Energy

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Nuclear fusion, process by which nuclear reactions between light elements form heavier elements (up to iron). In cases where the interacting nuclei belong to elements with low atomic numbers (e.g., hydrogen [atomic number 1] or its isotopes deuterium and tritium), substantial amounts of energy are released. The vast energy potential of nuclear fusion was first exploited in thermonuclear ...

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nuclear fusion | Development, Processes, Equations ...

Yes, you can build your very own nuclear fusion reactor in your house! But first, a few warnings:-This project includes lethal voltage levels. Make sure you know your high voltage safety or

have a qualified electrical advisor. Potentially hazardous levels of X-rays will be produced. Lead shielding of viewports is a must!

A 12-Year-Old Kid Built a Working Nuclear Fusion Reactor

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Mention nuclear fusion-the joining of two light atoms to form a heavier one-and most people think of bombs. But fusion has other uses, too. Inside an encapsulated space at Sandia National Laboratories in Albuquerque, New Mexico, scientists test the Z Machine, a pulsed power structure that uses electricity and magnetism to produce nuclear fusion.

Fusion: The quest to recreate the Sun's power on Earth ...

The idea for the National Ignition Facility (NIF) grew out of the decades-long effort to generate fusion burn and gain in the laboratory. Current nuclear power plants, which use fission, or the splitting of atoms to produce energy, have been pumping out

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Fusion on the other hand does not create any long-lived radioactive nuclear waste. A fusion reactor produces helium, which is an inert gas. It also produces and consumes tritium within the plant in a closed circuit. Tritium is radioactive (a beta

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emitter) but its half life is short.

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For example, inside an encapsulated space at Sandia, scientists
test the Z Machine, a pulsed power structure that uses electricity
and magnetism to produce nuclear fusion. Although much of the
research has focused on the development of nuclear weaponry,
the Z Machine may also help scientists find a way to harness
fusion energy in order to provide clean, renewable energy to the

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world's growing population.

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