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called atomic energy energy that is released in significant amounts in processes that affect atomic nuclei the dense cores of atoms it is distinct from the energy of other atomic phenomena such as ordinary chemical reactions which involve only the orbital electrons of atoms **nuclear energy national geographic society** Aug 23 2022 web oct 21 2022 nuclear energy is the energy in the nucleus or core of an atom atoms are tiny units that make up all matter in the universe and energy is what holds the nucleus together there is a huge amount of energy in an atom s dense nucleus in fact the power that holds the nucleus together is officially called the strong force

what is nuclear energy Jun 21 2022 web nuclear energy comes from splitting atoms in a reactor to heat water into steam turn a turbine and generate electricity ninety two nuclear reactors in 28 states generate nearly 20 percent of the nation s electricity all without carbon emissions because reactors use uranium not fossil fuels these plants are always on well operated to avoid interruptions

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nuclear nuclear power the use of sustained nuclear fission to generate heat and electricity contributes nearly 20 percent of the electricity generated in america the united states has used nuclear power for more than 60 years to produce reliable low carbon energy and to support national defense activities

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2022 nuclear energy is a form of energy released from the nucleus the core of atoms made up of protons and neutrons this source of energy can be produced in two ways fission when nuclei of atoms split into several parts or fusion when nuclei fuse together the nuclear energy harnessed around the world today to produce electricity is

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