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web 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 web adjective pertaining to or involving atomic weapons nuclear war operated or powered by atomic energy a nuclear submarine of a nation or group of nations having atomic web nov 15 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 web jan 6 2023 nuclear weapon device designed to release energy in an explosive manner as a result of nuclear fission nuclear fusion or a combination of the two processes fission weapons are commonly referred to as atomic bombs web nuclear energy also 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 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 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 web nuclear power is the single largest low carbon electricity source in the united states and accounts for two thirds of the european union s low carbon electricity nuclear energy policy differs among european union countries and some such as austria estonia ireland and italy have no active nuclear power stations web dec 9 2022 nuclear power electricity generated by power plants that derive their heat from fission in a nuclear reactor except for the reactor which plays the role of a boiler in a fossil fuel power plant a nuclear power plant is similar to a large coal fired power plant with pumps valves steam generators turbines electric generators condensers and web used in or produced by a nuclear reaction such as fission nuclear fuel nuclear waste nuclear energy c 1 being a weapon whose destructive power derives from an

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