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UNFCCC explainer nuclear energy nuclear energy is energy made by breaking the bonds that hold particles together inside an atom a process called nuclear fission this energy is carbon free meaning that like wind and solar it does not directly produce carbon dioxide CO₂ or other greenhouse gases that contribute to climate change open access highlights nuclear power's contribution to climate change mitigation is and will be very limited currently nuclear power avoids 2/3 of total global GHG emissions per year according to current planning this value will decrease even further until 2040 a substantial expansion of nuclear power will not be possible 15 Nov 2022 andrea galindo iaea office of public information and communication 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 nuclear power is 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new policy promoting greater use of nuclear energy to energy solutions is an international nuclear services company headquartered in Salt Lake City Utah and Charlotte North Carolina with operations throughout the United States Canada Asia and Europe we are an industry leader in the safe transportation processing recycling and disposal of radiologic material contact us nuclear power is the largest source of zero emission power in the United States ninety nine operational reactors the largest fleet in the world help avoid the emission of 320 million to 578 million metric tons of carbon dioxide each year nuclear also provides stable and steady power which helps ensure electric grid reliability

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