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the u s department of energy is supporting five new advanced reactor concepts made in america these reactors range from futuristic to portable giving scientists a lot to explore to cater to

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nuclear reactor any of a class of devices that can initiate and control a self sustaining series of nuclear fission s nuclear reactors are used as research tools as systems for producing radioactive isotope s and most prominently as energy sources for nuclear power plants

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technology advances contribute to the economic competitiveness enhanced reliability high efficiency and robust safety performance of innovative reactors small modular reactors smrs are advanced generation reactors designed to produce typically up to 300 mw e

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fast reactor and thorium based molten salt reactor are two critical approaches to achieve nuclear fuel sustainability advanced smr can effectively construct efficient low carbon and flexible smart nuclear energy systems to develop advanced nuclear energy must strengthen basic research and common technology r d

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a nuclear reactor is a device used to initiate and control a fission nuclear chain reaction or nuclear fusion reactions nuclear reactors are used at nuclear power plants for electricity generation and in nuclear marine propulsion heat from nuclear fission is passed to a working fluid water or gas which in turn runs through steam turbines

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this chapter examines the spectrum of advanced reactor technologies that are currently under development including their design and safety attributes fuels and materials development and technology readiness and gaps

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small modular reactors smrs are advanced nuclear reactors that have a power capacity of up to 300 mw e per unit which is about one third of the generating capacity of traditional nuclear power reactors

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microreactors and smrs reflect a broad technology spectrum including lwrs high temperature gas reactors htgrs and advanced reactor concepts e g liquid metal fast reactors frs molten salt reactors msrs and heat pipe hp reactors

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