

Design	Capacity	Details & Status
Pressurized Water Reactor (PWR)		
Nuscale VOYGR	77 MWe	NRC certified 50 MWe design in 2022 and issued Standard Design Approval for uprated 77 MWe US460 module design in May 2025. Established supply chains with Doosan in Korea, and ability to use commercial fuel.
Hadron Energy Halo MMR	10 MWe	Ongoing pre-application engagements with the NRC. Regulatory Engagement Plan and amendments submitted in May and July 2025. Publicly observed pre-application meeting on licesing pathways with NRC in July 2025. Revised Quality Assurance Program Description (QAPD) Topical Report accepted for NRC review in December 2025.
Holtec SMR-300	300 MWe	\$116 million risk reduction award through DOE ARDP program. Two units to be deployed at Palisades site in Michigan. Pre-application activities with the NRC.
Westinghouse AP300	300 MWe	Smaller version of AP1000. Pre-application Regulatory Engagement Plan submitted to NRC in May 2023 and updated in February 2024. NRC held public meetings on licensing strategy in December 2024.
Rolls Royce RR SMR	470 MWe	Competitively selected by Great British Energy – Nuclear in June 2025 as preferred SMR technology. Ongoing UK Generic Design Assessment since 2022. Wylfa confirmed in November 2025 as first planned deployment site.
Deep Fission Borehole Reactor 1 (DFBR-1)	15 MWe	Regulatory Engagement Plan submitted to NRC in March 2024 and updated in January 2025. Ongoing pre-application activities with the NRC. Selected for DOE Reactor Pilot Program in June 2025.
Last Energy PWR-20	20 MWe	In February 2025, announced plans to build 30 microreactors in Haskell County, Texas as well as nonbinding commercial agreements to deploy 80 units in UK and EU markets. NRC pre-application activities ongoing. UK regulators completed Preliminary Design Review in June 2025. Selected for DOE Reactor Pilot Program in June 2025.
Boiling Water Reactor (BWR)		
GE-Vernova Hitachi Nuclear Energy BWRX-300	300 MWe	Ontario Power Generation (OPG) submitted construction license application for Darlington New Nuclear Project in Lake Ontario in April 2025. Canadian Nuclear Safety Commission (CNSC) approved construction in May 2025. TVA submitted USA's first Construction Permit application for the Clinch River site near Oak Ridge, TN in May 2025, which NRC accepted for review in July 2025.
High-Temperature Gas Reactor (HTGR)		
BWXT BANR	15-20 MWe	Contracted with Wyoming Energy Authority in September 2023 to evaluate placement at mining/industrial sites. Signed a collaboration agreement with Tata Chemicals Soda Ash Partners (TCSAP) in October 2023 to explore the potential deployment of the BANR SMR at the TCSAP's Green River site in Wyoming.
NANO Nuclear Energy KRONOS MMR	15 MWe	Working with University of Illinois at Urbana-Champaign (UIUC) to go through NRC licensing approvals since May 2025. NRC issued final Safety Evaluation approving reactor's Fuel Qualification Methodology Topical Report in April 2025. Won Direct-to-Phase II SBIR contract from AFWERX in September 2025. Geotethnical drilling at UIUC host began in October 2025. Planned Construciton Permit application submission around Q1 2026.
Radiant Industries Kaleidos	1.2 MWe	Selected by DOE in April 2025 to receive HALEU for first reactor test. Completed prototype testing at INL in November 2024. Selected for DOE Reactor Pilot Program in June 2025.
Valar Atomics Ward 250	100 kWt	Began testing at Utah San Rafael Energy Lab (ISREL) in September 2025. Experimental NOVA core achieved cold criticality at DOE Los Alamos Naitonal Laboratory (LANL) in November 2025. Selected for DOE Reactor Pilot Program in June 2025.
X-Energy XE-100	80 MWe	Selected for DOE ARDP in October 2020 – Two units at Dow Texas site. Four units at Amazon/ EnergyNorthwest with directed \$500 million investment from Amazon in October 2023. DOE allocated initial HALEU quantities in 2023 and 2024.
Molten Salt Reactor (MSR)		
Natura Resources MSR-1	Non-power research 100 MWe commercial	NRC completed environmental review and issued construction permit for initial prototype research reactor deployment at Abilene Christian University in September 2024. Selected for DOE Reactor Pilot Program in June 2025.
Terrestrial Energy Integral Molten Salt Reactor (IMSR)	195 MWe	Undergoing NRC pre-application & CNSC review. Completed Phase 2 of Canadian Nuclear Safety Commission Vendor Design Review in April 2023. Selected for DOE Reactor Pilot Program in June 2025.
Kairos Power KP-FHR (Fluoride-Cooled High Temperature Reactor)	150 MWe (2x75 MWe plants)	Selected for up to \$303 million risk reduction award by DOE. NRC construction permit for Hermes demonstration reactor issued in December 2023. Signed Master Plant Development Agreement with Google in October 2024 targeting deployment of ~500 MW by 2035. DOE allocated conditional HALEU commitments in April 2025 in first round of HALEU Availability Program.
Liquid Metal-Cooled Reactor (LMR)		
TerraPower Natrium Sodium Fast Reactor	345 MWe 500 MWe (5.5 hrs)	Selected for DOE ARDP demonstration award in October 2020. Non-Nuclear construction permit for coal-to-nuclear site in Kemmerer, Wyoming granted by Wyoming Industrial Siting Council in January 2025. Construction Permit application submitted to NRC accepted for docketing in May 2024. DOE allocated conditional HALEU commitments in April 2025 in first round of HALEU Availaibility Program.
ARC Clean Technology ARC-100	100 MWe	Selected in July 2020 by NB Power, the primary electric utility in the Canadian province of New Brunswick, for deployment at their Point Lepreau Nuclear Generating Station.
Oklo Aurora Sodium Fast Reactor	1.5 MWe	Submitted Combined License application to NRC for 1.5 MWe design in March 2020. NRC denied aplication without prejudice in January 2022. Selected for DOE Reactor Pilot Program in June 2025.
	15 MWe	Announced in May 2023 plans to deploy of two 15 MWe units on Southern Ohio Diversivication Initiative (SODI) lands by ~2028. Selected for DOE Reactor Pilot Program in June 2025.
High-Temperature Sodium Heat Pipe		
Westinghouse eVinci Microreactor	5 MWe	Selected for \$7.4 million DOE ARDP risk reduction cost share awared in October 2020. DOE allocated conditional HALEU commitments in April 2025 in first round of HALEU Availability Program.