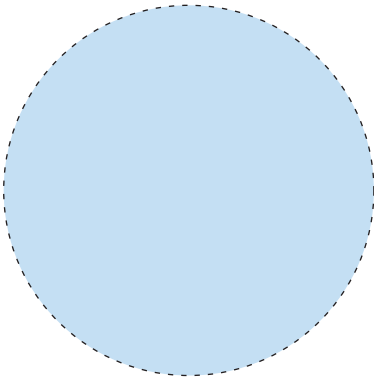
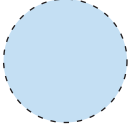

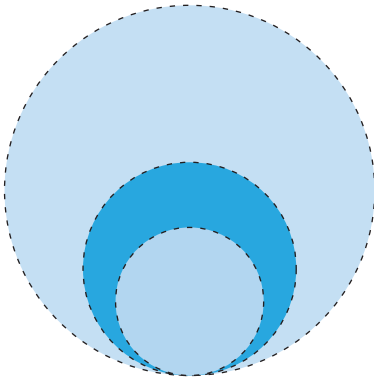





































# Four types of reactors to power the nuclear future

	Large power reactors (current fleet)	Small modular reactors	Microreactors	Large advanced reactors
FOOTPRINT	 1,500 ACRES	 50 ACRES	 LESS THAN AN ACRE	 VARIES
ELECTRICITY (MEGAWATTS)	1,000+	60 or more	20 or less	400-1,400
FUEL TYPE	URANIUM	URANIUM	URANIUM	URANIUM
COOLANT	 WATER	    WATER GAS METAL SALT	    WATER GAS METAL SALT	    WATER GAS METAL SALT
EMERGENCY ZONE	10 MILES	0.19 MILES	<0.19 MILES	0.15-10 MILES
CONTROL APPROACH	ACTIVE	MOSTLY PASSIVE	MOSTLY PASSIVE, AUTONOMOUS	MOSTLY PASSIVE
END PRODUCT	 ELECTRICITY	   ELECTRICITY HEAT STEAM	   ELECTRICITY HEAT STEAM	   ELECTRICITY HEAT STEAM
APPLICATIONS	 BASE LOAD ELECTRICAL POWER	 BASE LOAD, DEMAND RESPONSE, INDUSTRIAL ELECTRICITY, INDUSTRIAL PROCESSES SUCH AS HYDROGEN PRODUCTION	 POWER FOR REMOTE LOCATIONS, MOBILE, BACKUP POWER, MARITIME SHIPPING, MINING, MILITARY INSTALLATIONS, SPACE MISSIONS, DESALINATION, DISASTER RELIEF	 BASE LOAD, DEMAND RESPONSE, INDUSTRIAL ELECTRICITY, INDUSTRIAL PROCESSES SUCH AS HYDROGEN PRODUCTION
CUSTOMERS	 LARGE UTILITIES	 UTILITIES, MUNICIPALITIES, INDUSTRY	 MILITARY, MUNICIPALITIES, INDUSTRY	 MOSTLY LARGE UTILITIES WITH ASSOCIATED INDUSTRIES
CONSTRUCTION	CUSTOM BUILT ON SITE	FACTORY BUILT, MODULAR, ASSEMBLED ON SITE	FACTORY BUILT, MODULAR, START-UP READY UPON DELIVERY	MOSTLY MODULAR
TIMEFRAME	1950s COMMERCIAL REACTORS BUILT STARTING IN 1950S CURRENTLY IN OPERATION	2024 IN DEVELOPMENT, FIRST REACTORS EXPECTED IN 2024	2025 IN DEVELOPMENT, FIRST REACTORS EXPECTED 2025, DOD REACTORS BY 2027	Now CURRENTLY IN OPERATION OR UNDER CONSTRUCTION OUTSIDE OF THE U.S.
COST	 \$5 BILLION TO \$9 BILLION	 \$800 MILLION TO \$3 BILLION PER UNIT	 \$49 MILLION TO \$86 MILLION	 MIXED
SCALABILITY	ADDING NEW REACTORS IS DIFFICULT	DESIGNED TO ADD NEW REACTORS AS DEMAND INCREASES	DESIGNED TO ADD NEW REACTORS AS DEMAND INCREASES	MIXED