

DOE

Small Modular Reactors Video
“ENERGY + ENVIRONMENT”

	VIDEO	AUDIO
1.	OPEN ON LARGE WATERING CAN POURING COINS ONTO LANDSCAPE. WIND TRUBINES AND SOLAR PANELS EMERGE.	MUSIC: (PASTURAL, BUILDING) VO: Investment in clean energy is paying off.
2.	ZOOM IN TO TURBINE THAT MAKES PIE CHART.	Cleaner energy sources are now meeting almost 40% of our nation's power needs.
3.	CIRCLE FROM PIE CHART MULTIPLIES INTO 1,000,000,000.	While avoiding over a billion metric tons of carbon emissions each year. ²
4.	CAMERA PANS UP FROM TURBINES AND SOLAR PANELS TO REVEAL A LARGE NUCLEAR REACTOR IN BACKGROUND.	The one source that produces the most, clean energy; more than all other sources combined is nuclear.
5.	ZOOM BACK. SOLAR PANEL, REACTOR AND WIND TURBINE, SIDE BY SIDE. WEATHER CHANGES REDUCE POWER OUTPUT IN ALL BUT NUCLEAR.	Unlike other carbon-free sources, nuclear provides resilient, reliable energy. Day and night. Independent of weather.
6.	CUT TO SHAPE OF LARGE NUCLEAR REACTOR, COVERED IN DRAPE. THE REACTOR BEGINS TO SHRINK AND SLIGHTLY CHANGE SHAPE.	And a new generation of reactors will bring the benefits of clean, reliable nuclear power to more places than ever before.
7.	DRAPE IS PULLED TO REVEAL A SMALL MODULAR REACTOR.	Small modular reactors, OR SMRs, are simpler, smaller-scale manufactured versions of traditional reactors.
8.	MAIN PARTS OF SMR ARRIVE BY TRUCK TO A SITE LOCATION.	The components can be built in U.S. based factories and shipped to site locations, by truck rail or barge
9.	THE PARTS COME TOGETHER TO MAKE A REACTOR.	making them quicker to build and far less expensive than large plant construction.

² <https://www.eia.gov/todayinenergy/detail.php?id=37392>

10.	THE REACTOR DROPS BELOW GROUND. TREES SPROUT UP, AND BLOW IN THE WIND DURING A STORM.	SMRs are built to be durable and reliable. They are designed to shut down and cool autonomously, and
11.	SMR APPEARS ABOVE GROUND. AREA AROUND IT BECOMES MORE POPULATED CITY.	can be built mostly below ground, making them more resilient to extreme weather events.
12.	POWER GOES DOWN IN MOST AREAS OF THE CITY. HOSPITAL, DATA CENTER AND MILITARY BASE REMAIN UP.	SMRs can operate independently from a power grid; supplying power to critical facilities such as hospitals, data centers and military bases,
13.	CAMERA PANS PAST CITY TO A REMOTE VILLAGE. ICON OF ONE SMR APPEARS LOWER LEFT.	With fewer siting requirements and a flexible design, SMRs can provide needed utility service in a variety of regions. For example, one unit can heat and power a remote Alaskan fishing village, avoiding the cost and difficulties of transporting diesel fuel over hazardous terrain.
14.	ALASKAN VILLAGE MORPHS INTO TROPICAL ISLAND RECOVERING FROM STORM. ICONS OF THREE SMRs APPEARS LOWER LEFT.	Multiple SMR units can also be combined to help coastal cities and island communities regain power and fresh water after a storm.
15.	CUT TO SCIENTISTS WORKING AT WHITE BOARD.	The Department of Energy and its industry partners are leading the way to create and develop emerging nuclear technologies like Small Modular Reactors. Technologies that will keep America in the forefront,
17.	ZOOM OUT TO SHOW DOE BUILDING.	meeting the world's energy demands,
18.	FLOWERS GROW AROUND BUILDING ENTRANCE SIGN.	and the planet's environmental demands.