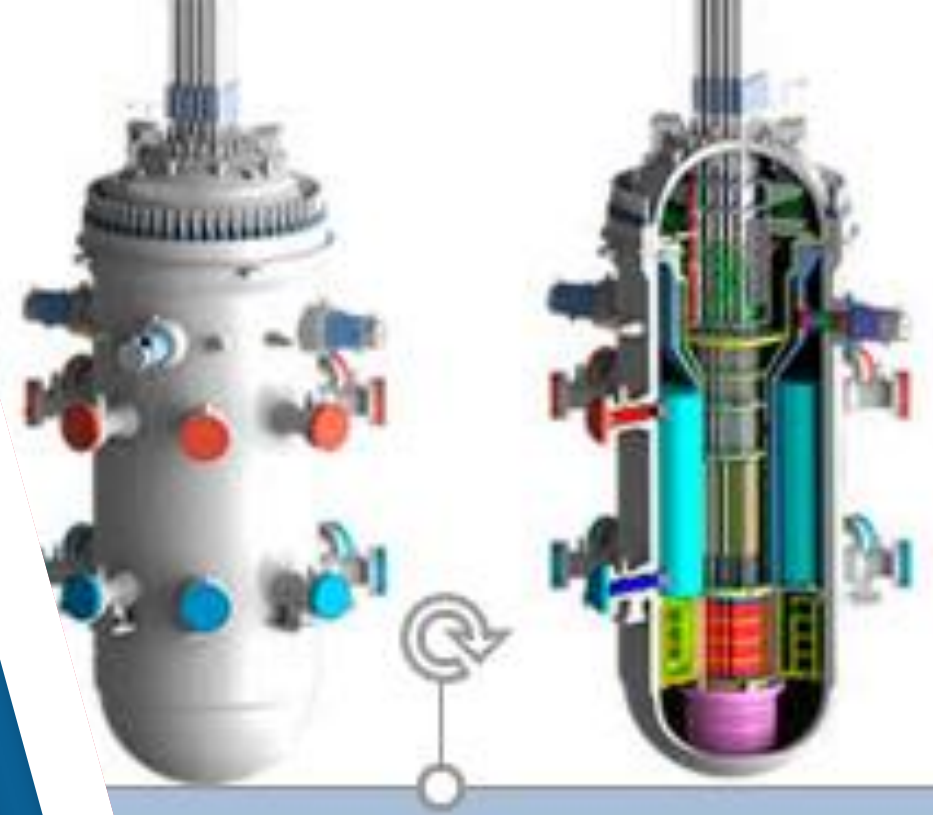


The US Small Mobile Reactor (SMR) Market Future Opportunities (2020 Edition)

January 2020



The US SMR Market: Coverage

Executive Summary and Scope

Introduction/Market Overview

The US SMR Market Opportunity Analysis

Mobile Nuclear Power Challenges

Competitive Landscape

Company Profiles

The US SMR Market: Coverage

Scope of the Report

Attributes	Details
Title	The US Small Mobile Reactor (SMR) Market Future Opportunities (2020 Edition)
Coverage	The US
Competition in the Market	Fragmented with various players within SMR supply chain
Key Players	Curtiss-Wright Corporation, BWX Technologies Inc., NuScale Power and HolosGen LLC

The US SMR Market

Executive Summary

Small Modular Reactors/Small Mobile Reactors (SMR) are defined as nuclear reactors with the electrical output capability of 300MWe (Mega Watt Electric) equivalent or less. Their size, uncomplicatedness of its very design and natural cooling are some of its important features. Many SMRs have been deployed across the globe in nuclear submarines, warships, merchant ships, icebreakers and as research and medical isotope reactors at universities.

SMR can be classified into three categories on the basis of the technology employed into Light Water Reactors (LWR), Fast Neutron Reactors (FNR) and High Temperature Gas Reactors (HTGR).

The US SMR market holds lucrative opportunities in the years ahead. The US Department of Defense (DoD) and the FAA/US Department of Homeland Security airport/radar locations are expected to be amongst the early adopters of SMR technology. The DoD sites belonging to army, navy and air force hold potential for adoption of the SMR technology.

The adoption of SMR technology is also confronted with various technical challenges. Mobile nuclear reactor requirements ranging from installation, transposability to operations and specific requirements of small reactors such as operational & maintenance cost and large EPZ to name a few are some of the crucial challenges in the way of mobile nuclear technology. Several technical challenges have been identified that need technology development like advanced moderators, heat management, fuel and material qualification and licensing/regulatory.

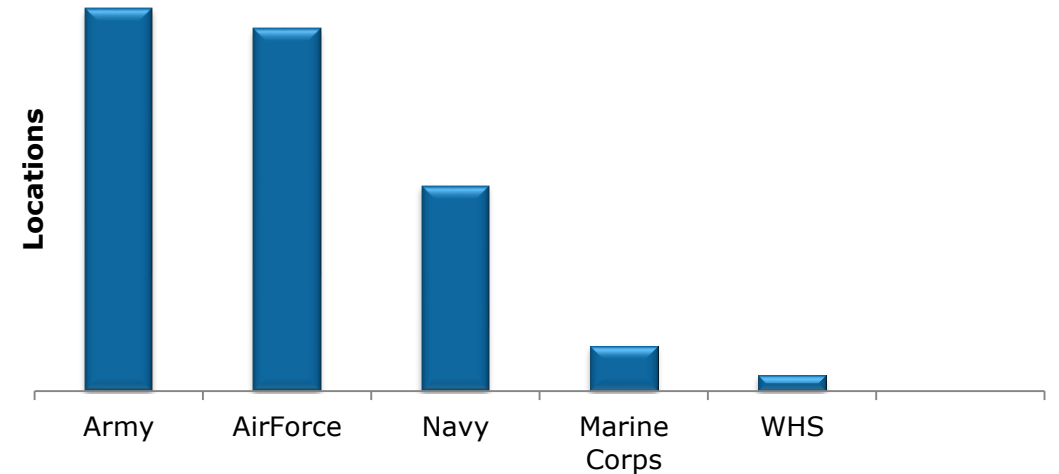
The US SMR Market Opportunity Analysis

Table: Market Breakdown of US SMR Units

Application of SMR	Number of Units/sites
Large Base Power	--
Medium Base Power	--
Small Base Power	--
Navy Ships	--
SENSR Radar	--
Army CTA/AMD Radar	--
Army DE Base Defense	--

Source: ---

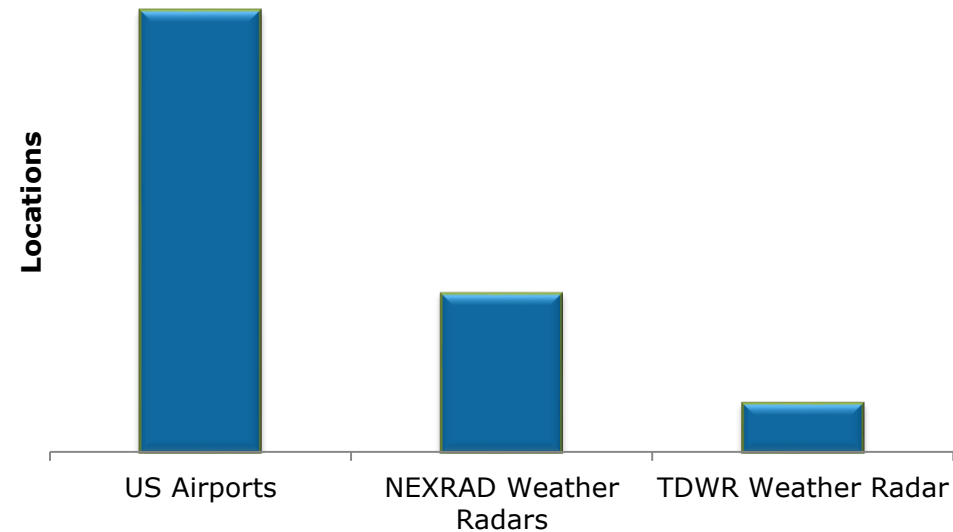
Department of Defense Sites Infrastructure Power



The Department of Defense (DoD) locations could use mobile nuclear reactors for supporting communications, command & control, computing, laser/RF weapons, and other general purpose power consumption needs. The maximum number of DoD site counts belonged to the army with a total of --- sites. Air Force and Navy followed up with site count of --- and --- respectively. Marine Corps and Washington Headquarters Services (WHS) had -- and --- DoD site counts.

The US SMR Market Opportunity Analysis

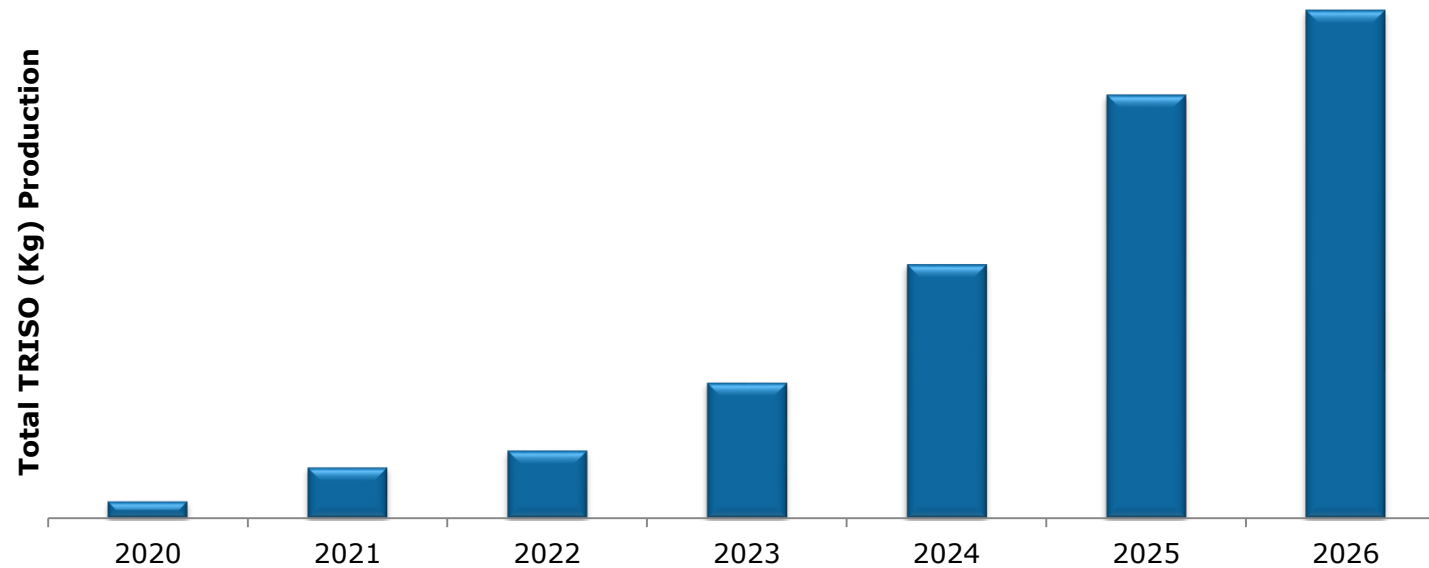
US Airport and Radar Infrastructure



Mission critical radar systems connected to the power grid could be vulnerable to cyber attacks or other outages – on-site mobile nuclear reactors eliminates these logistical challenges.

The US Very High Temperature (VHTR) SMR Market Analysis

The US TRISO Market by Production Volume; 2020-2026 (Kg)



In the years 2020-2026, the production of TRISO is expected to increase by nearly ...% and reach to ...kg from ...kg in 2020.

The US Very High Temperature (VHTR) SMR Market Analysis

Table 4: TRISO Parameters

	Fuel Production Reactor Units	Low Mfg Cost/Kg (US\$)	High Mfg Cost/Kg	Low Cost Revenue (US\$ Million)	High Cost Revenue (US\$ Million)
2020	--	--	--	--	--
2021	--	--	--	--	--
2022	--	--	--	--	--
2023	--	--	--	--	--
2024	--	--	--	--	--
2025	--	--	--	--	--
2026	--	--	--	--	--
2027	--	--	--	--	--
2028	--	--	--	--	--
2029	--	--	--	--	--

Source:---

The US SMR Market: Competitive Landscape

Players Profiled

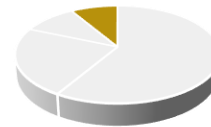
Curtiss Wright Corporation



- BWX Technologies Inc.



- NuScale Power



- HolosGen LLC

