Advanced Nuclear Technologies

Nuclear Energy Regulatory Forum

Energy Regulators Regional Association

June 13, 2024

Marc Nichol, Executive Director, New Nuclear





Advanced Nuclear Developers





















































Types of Advanced Reactors

ŊĔI

Range of sizes and features to meet diverse market needs

Micro Reactors < 50MWe



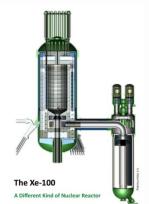
Oklo (shown)
Approximately a dozen in development

LWR SMRs <300MWe



NuScale (shown)
GEH BWRX-300
Holtec SMR-300

High Temp
Gas Reactors



X-energy (shown) Several in development

Liquid Metal Reactors



TerraPower Natrium[™] (shown)
Several in development

Molten Salt Reactors



Terrestrial (shown)
Several in development

Westinghouse AP300

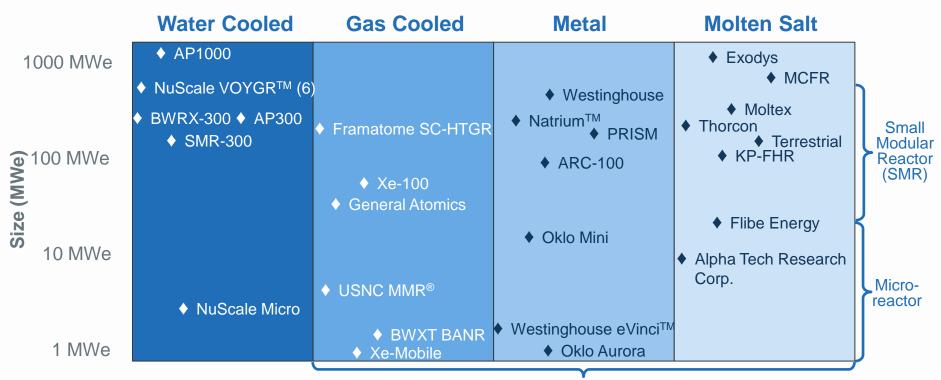


Learn more about innovative technologies with the Nuclear Innovation Alliance.

Non-Water Cooled Most <300MWe, some as large as 1,000 MWe

Advanced Nuclear Technologies*





Advanced (Non-Light Water) Reactors or non-LWR

Advanced Reactor Licensing Progress

Approved





Under Review







Pre-Application



HITACHI

















Advanced Nuclear Deployment Plans

State support and projects that may be in operation by early 2030s





Source: NEI Website

