



INNOVATING NUCLEAR TECHNOLOGY
ANALYSIS AND MEASUREMENT SERVICES CORPORATION

Slide Set #2
Day 1 – July 6, 2026
11:30 - 12:00am

The State of Nuclear Development and Deployment in America: **Latest Headlines**

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Presented to:

**33rd International Meeting
on Reactor Noise**

Grenoble, France



July 6, 2026



World Energy Outlook by 2050

- Demand Will Double
- Population Will Reach Near 10 Billion
- We Should Reach Net Zero
- Renewables May Max Out
- Fossil Power Generation Will Be Near Zero





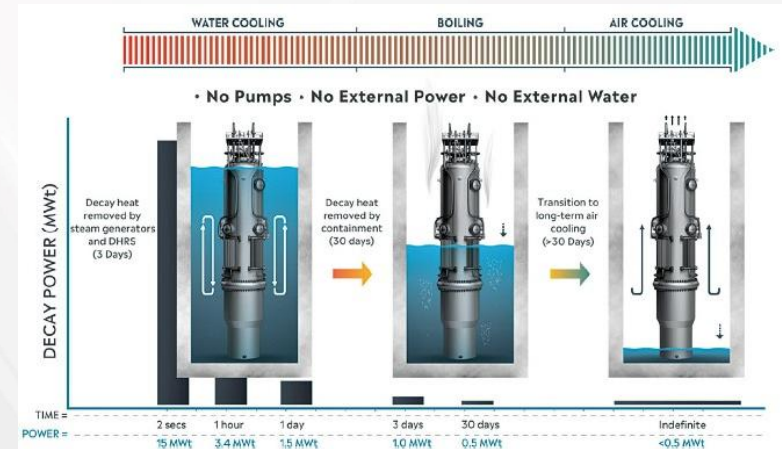
Latest Headlines

- **Demand is exceeding supply**
(Data centers, EVs, hydrogen)
- **Climate and energy security needs nuclear**
(COP 28, Ukraine war, Middle East conflicts)
- **LEU and HALEU are in short supply**
(Russia ban, ORANO, \$2.7B for HALEU)
- **US needs 300 GW of new nuclear by 2050**
- **Nearly 2000 SMRs, ARs, and large reactors may be built by 2050**



Key Features of New Reactors

- Natural cooling
- Accident-tolerant fuels
- Digital I&C
- Online diagnostics





Hundreds of Companies are Developing New Fission and Fusion Reactors



Small modular reactors



Fusion



Microreactors



AI is Investing in Nuclear



Microsoft

Restarting Three Mile Island Unit 1 to supply its data centers by 2028



Google

Agreement to purchase power from Kairos Power by 2030



Amazon

Investing in X-energy and partnering with utility companies to develop 5 GW of new nuclear by 2039

Other Companies are Following Suite





Nuclear Landscape is Changing in the US

Nuclear is **Sizzling!**

- Existing Fleet
(*SLR, Restarts,...*)
- New Reactors
(*TerraPower, Kairos,...*)
- Government Support
(*Regulations, Financing,...*)
- Recycling Spent Fuel





Squeezing More From Existing Plans

Restarting Dead Plants

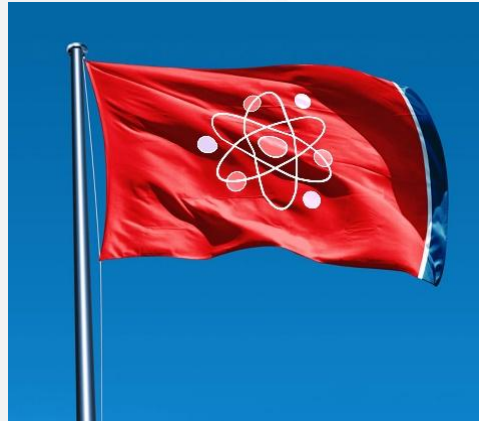
- **Palisades Nuclear Power Plant**
- **Three Mile Island Unit 1**
- **Duane Arnold Energy Center**
- **Other Possible Restarts**
 - San Onofre
 - Crystal River Unit 3
 - Kewaunee

Going to 80

- Browns Ferry 1, 2, & 3
- Dresden 2 & 3
- Robinson
- Monticello
- North Anna 1 & 2
- Oconee 1, 2, & 3
- Peach Bottom 2 & 3
- St Lucie 1 & 2
- Surry 1 & 2
- Turkey Point 3 & 4



Tennessee – Center of New Nuclear Energy in the US



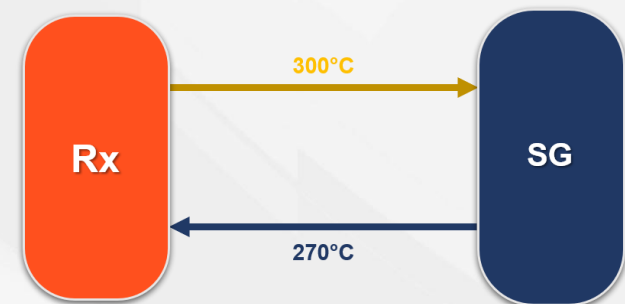
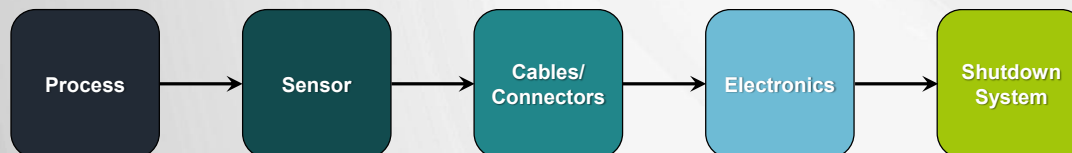
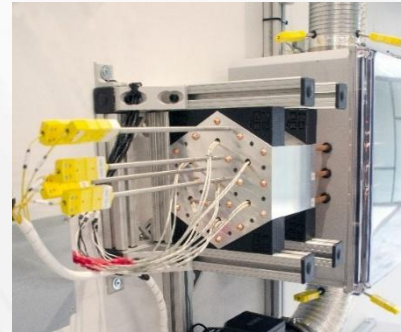
Over 230 nuclear companies operate in more than 350 Tennessee locations (154 in Oak Ridge/Knoxville)





AMS Support for New and Existing Reactors

- I&C Sensor Design and Qualification
- Commissioning Tests of I&C Sensors
- AI-Assisted Online Maintenance



Thank you!

Vera!



Being old has side benefits –
grandkids!

