

# **U.S. Industry Funding Opportunity Announcement**

## **Overview**

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# Administration Actions

## Impacting the Future of Nuclear Energy in the US



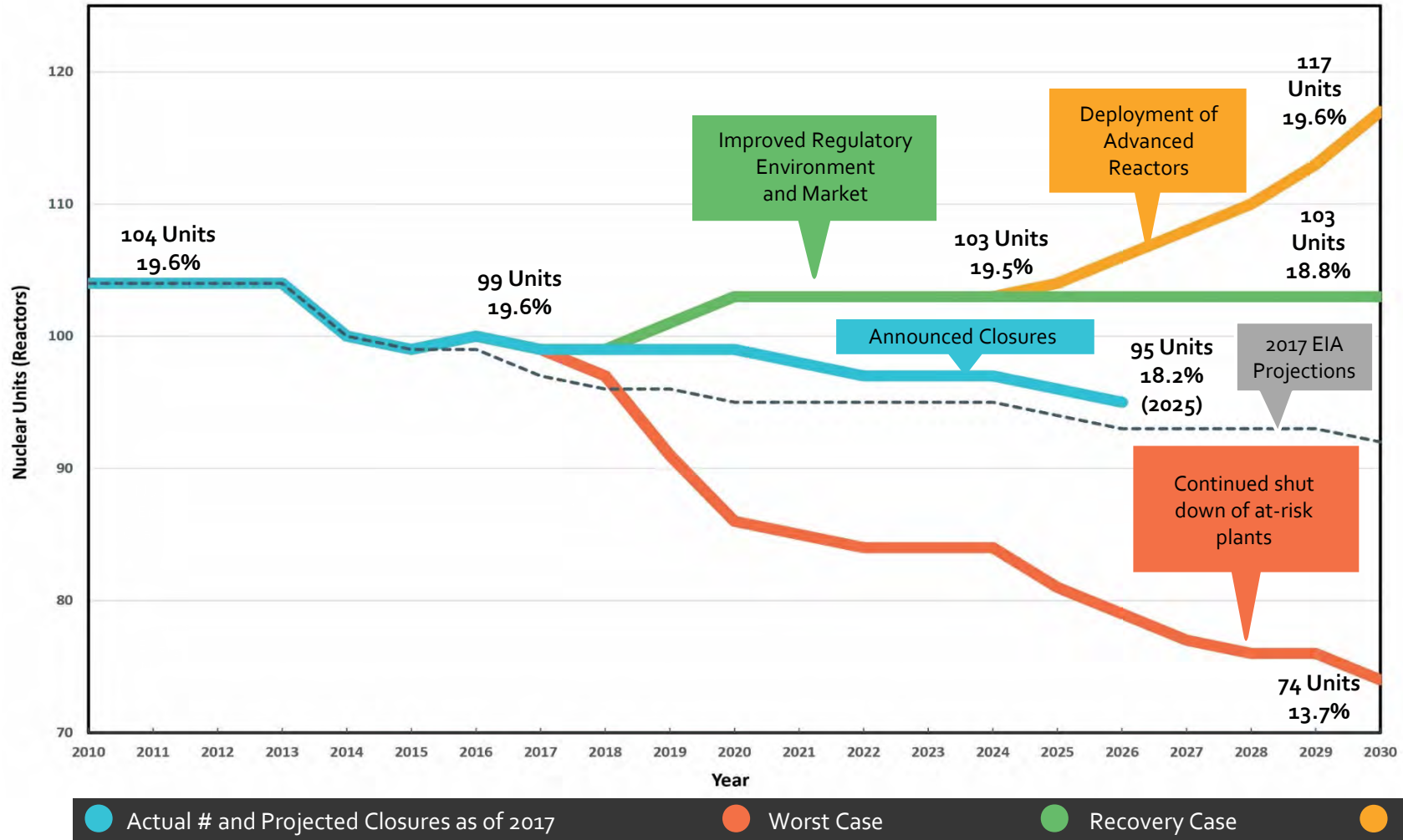
- ✓ President Trump has ordered a review of U.S. nuclear energy policy  
*"[W]e will begin to revive and expand our nuclear energy sector... which produces clean, renewable and emissions-free energy. A complete review of U.S. nuclear energy policy will help us find new ways to revitalize this crucial energy resource."*
- ✓ Executive Order Promoting Energy Independence and Economic Growth
- ✓ Executive Order Reducing Unnecessary and Burdensome Regulations
- ✓ Revisiting National Waste Policy

***"If you really care about this environment that we live in... then you need to be a supporter of this [nuclear energy] amazingly clean, resilient, safe, reliable source of energy."***

*Secretary Rick Perry at Press conference, May 10<sup>th</sup>*



# U.S. Nuclear Outlook:



# DOE Nuclear Priorities:

- Stabilize and Expand Existing Nuclear Fleet
- Establish Advanced Reactor Pipeline
- Re-establish National Fuel Cycle Infrastructure

# NE Research Programs:

- Stabilize and Expand Existing Nuclear Fleet
  - *Light Water Reactor Sustainability Program*
  - *Accident Tolerant Fuels Development Program*
- Establish Advanced Reactor Pipeline
  - *Advanced Water-based Reactor Development*
  - *Advanced Non-Water Reactor Development*
- Re-establish National Fuel Cycle Infrastructure
  - *Fuel Cycle R&D*
  - *Used Nuclear Fuel Disposition R&D*

*All DOE efforts supporting U.S. Industry meet the goals and objectives of the Gateway for Accelerated Innovation in Nuclear (GAIN) Initiative*

# NE Support for U.S. Industry Initiatives:

- **New Industry-Focused Funding Opportunity Announcement (FOA)**
- Supports innovation and competitiveness of the **U.S. nuclear industry** by directly sharing costs on cross-cutting applied research and development activities, specifically:
  - All aspects of advanced reactor development
  - Methods to improve the cost and schedule for delivery of nuclear products, services and capabilities, and
  - Resolution of regulatory/certification issues.
- FOA to service **nuclear technology developers** from early concept to more mature designs. Low to mid-level technology readiness levels and/or first-of-a-kind engineering (FOAKE) development.

# NE Support for U.S. Industry Initiatives:

## Notional Framework for New Reactor Development FOA

Tier	Delineation of Tiers	Task Funding Range	Cost Share	Typical No. of Tasks	Length of Tasks
3	License Application with NRC and/or Contractual Arrangement w/ End User(s)	\$10M-\$100M	50/50	1-2	24-36 months
2	Reactor Technologies and/or Concepts at varying levels of technical and/or regulatory maturity*	\$1M-\$10M	80/20	4-6	12-30 months
1	Technical and Regulatory Vouchers for work to be performed by DOE labs or licensing discussions w/ NRC	Less than \$1M	80/20 (non-WGs) 100/0 (WGs)	20+	6-18 months

\*single company, consortium of companies, or working group (WG) of companies