



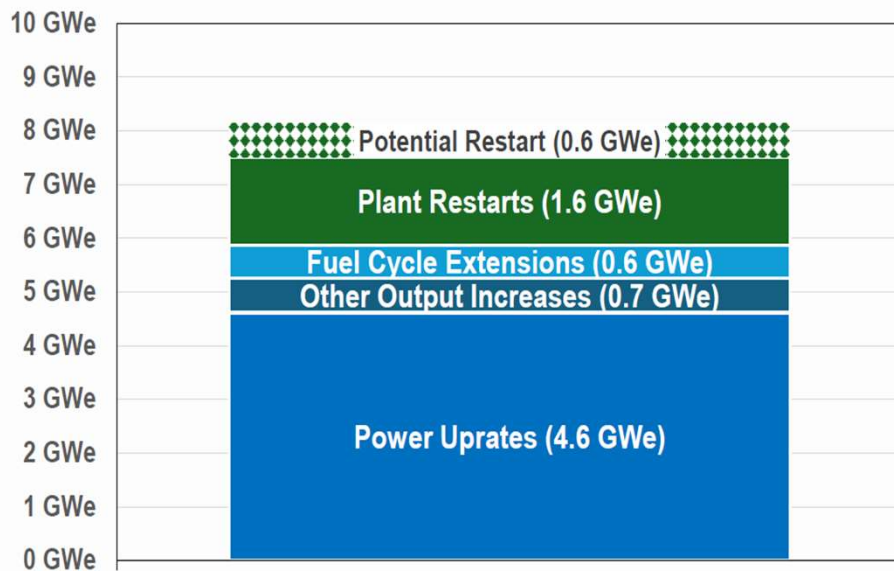
# Powering Up – The New Era of Upgrades (SNC Perspective)

T. Kindred, P.E.  
Consulting Engineer  
Nuclear Fuels and Analysis



# SNC Approach to Achieving Increased Capacity

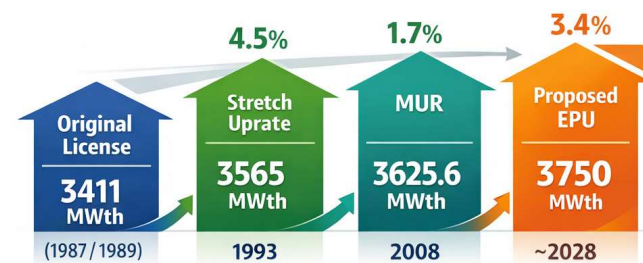
**Total Potential Addition: 8.1 GWe**



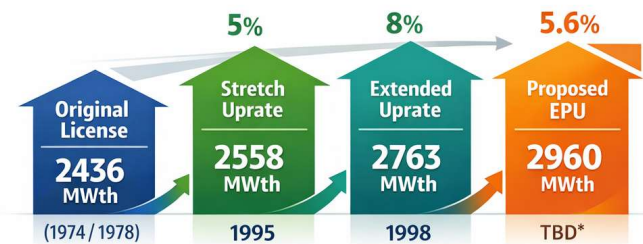
© 2025 Nuclear Energy Institute

\*Any plans or decisions related to EPUs will be made through constructive state regulatory processes to ensure we have the right mix for all customers

Alvin W. Vogtle Units 1 & 2: 4-Loop PWR



Edwin I. Hatch Units 1 & 2: BWR-4



# Significant Improvements in Regulatory Framework and Guidance

## 7 Workshops since 2024

Improves regulatory transparency

Reduces new guidance and rulemaking timelines

## Improvements in Guidance

### **RG-1.183 Rev. 2 (DG-1425)**

Improved modeling realism

Leverages risk-informed insights

## Improvements in Regulatory Framework

### **LIC-112 Binning Approach**

Improves durability and predictability of uprate submittals

Allowances for bundling submittals accelerates planned capacity increases



# Opportunity for AI!

The screenshot shows a chat interface with an AI assistant named 'EPU assistant'. The user prompt asks for a summary and comparison table of power uprate history for Vogtle and Hatch, including original licensed thermal power and percentage increase from current license thermal power. The assistant's response includes a title 'Power Uprate History Summary and Comparison: Vogtle vs. Hatch' and a paragraph stating that a summary and comparison table is provided below. The table data is as follows:

Plant	OLTP (MWth)	CLTP (MWth)	Proposed EPU (MWth)	% Increase from OLTP	% Increase from CLTP
Vogtle	3411	3625.6	3750	9.9%	3.4%
Hatch	2436	2804	2960	21.5%	5.6%

Plant	OLTP (MWth)	CLTP (MWth)	Proposed EPU (MWth)	% Increase from OLTP	% Increase from CLTP
Vogtle	3411	3625.6	3750	9.9%	3.4%
Hatch	2436	2804	2960	21.5%	5.6%



# Necessary Elements for Capacity Increases





**Southern  
Nuclear**