

# Nuclear Innovation Alliance Perspective on Part 53

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NRC NGO Public Meeting on Part 53

**Dr. Patrick White**

[pwhite@nuclearinnovationalliance.org](mailto:pwhite@nuclearinnovationalliance.org)



# A key focus of NIA is helping modernize NRC licensing to enable advanced nuclear energy as a climate solution

- Nuclear Innovation Alliance (NIA) is a leading think-and-do tank focused on achieving the conditions for success for advanced reactors so they can be part of the climate solution.
- Deeply engaged with the advanced reactor community as well as the broader energy and climate community.
- NIA's core strengths:

Analysis

Advocacy

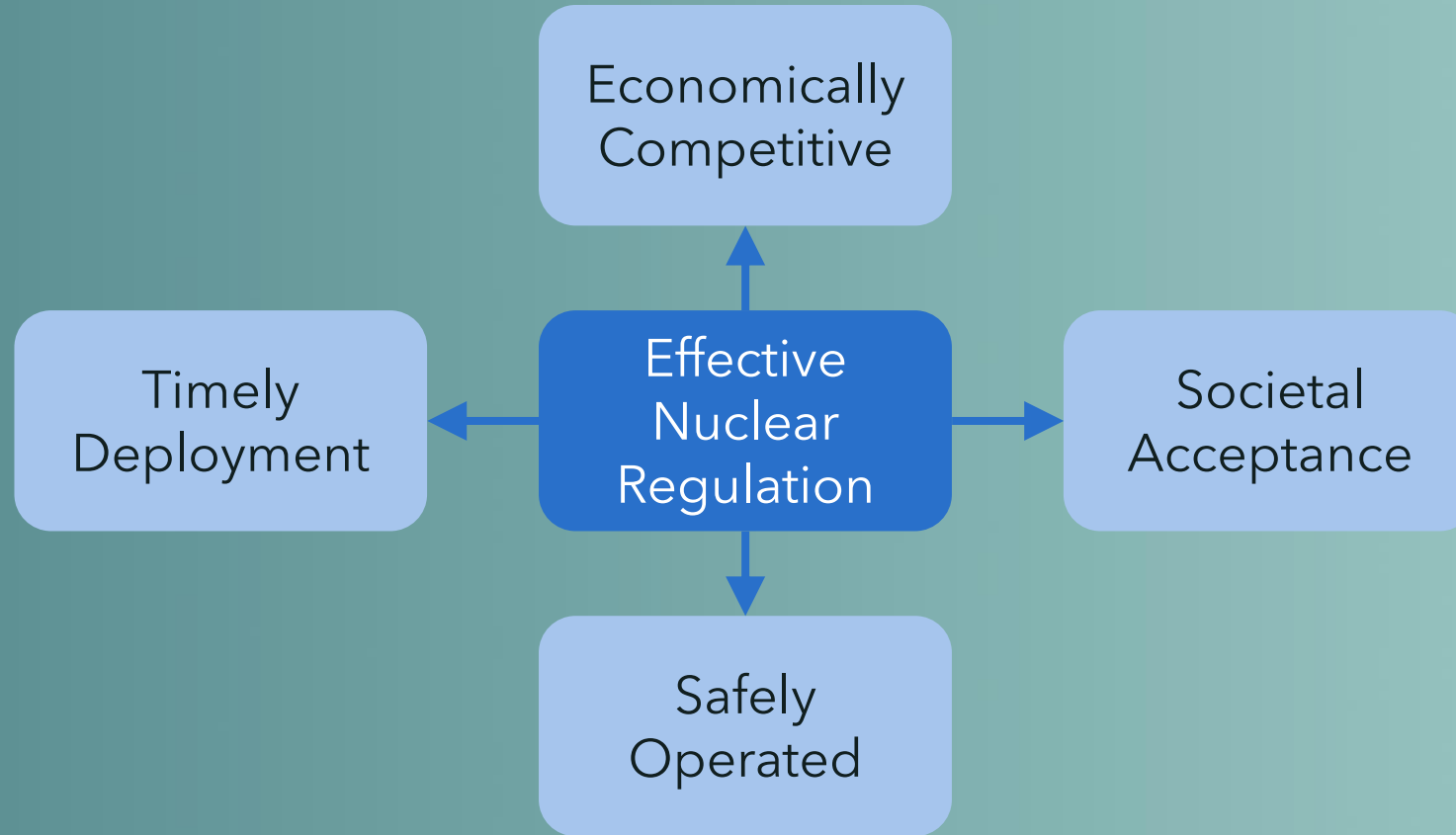
Stakeholder  
collaboration

Independent,  
non-partisan

Strong track  
record

Thought  
leadership

# Developing modern and effective regulation in Part 53 is critical to advanced nuclear energy



# Part 53 could enable both evolutionary and innovative approaches to regulation



Westinghouse AP1000

1120 MWe  
Water Cooled

Evolutionary Regulation

## *Regulatory paradigms*

- Regulatory requirements
- Analysis methods
- Regulatory assumptions
- Reactor design criteria
- Risk assessments
- Organizational programs
- Operational requirements
- Equipment qualification
- Reactor siting

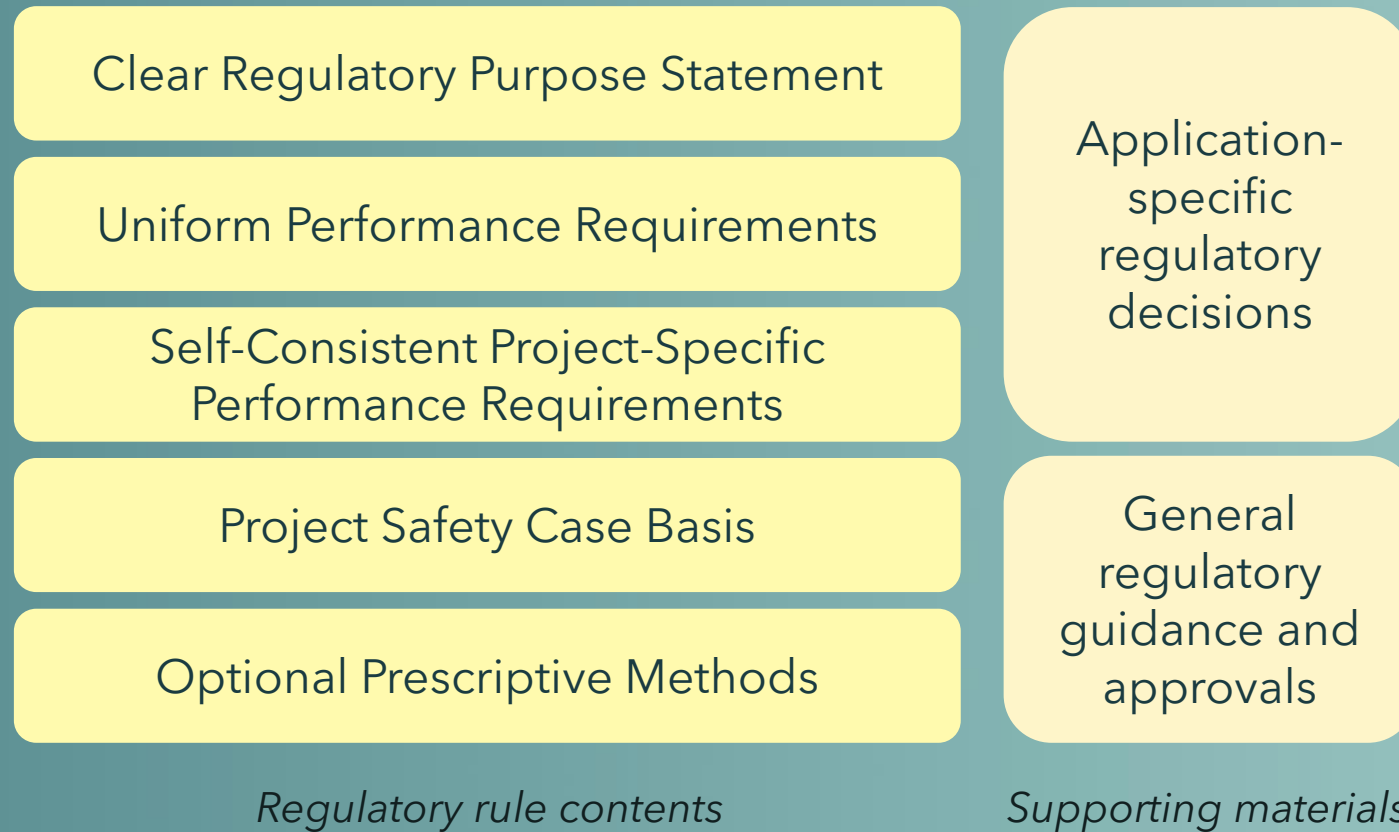


Westinghouse eVinci

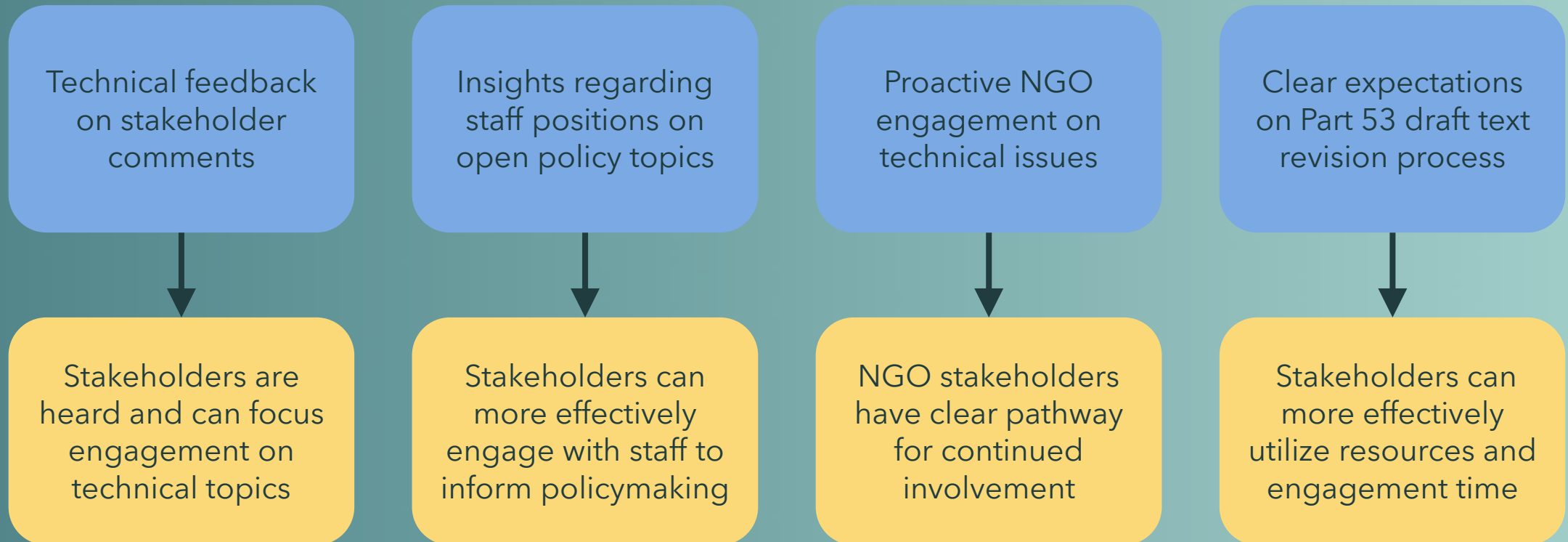
1 MWe  
Heat Pipe Cooled

Innovative Regulation?

# Part 53 framework can be reimagined to facilitate both evolutionary and innovation regulations



# Continued communication and engagement with stakeholders is critical to Part 53 rulemaking



# NIA seeks to continue to provide technical feedback and facilitate stakeholder engagement on Part 53

- NIA joint public comments on Part 53 with Breakthrough Institute, Good Energy Collective, ClearPath, and Third Way: [ML21207A223](#)
- NIA detailed public comments on Part 53: [ML21321A284](#)
- NIA Commission Briefing on Part 53: [ML21337A139](#)

