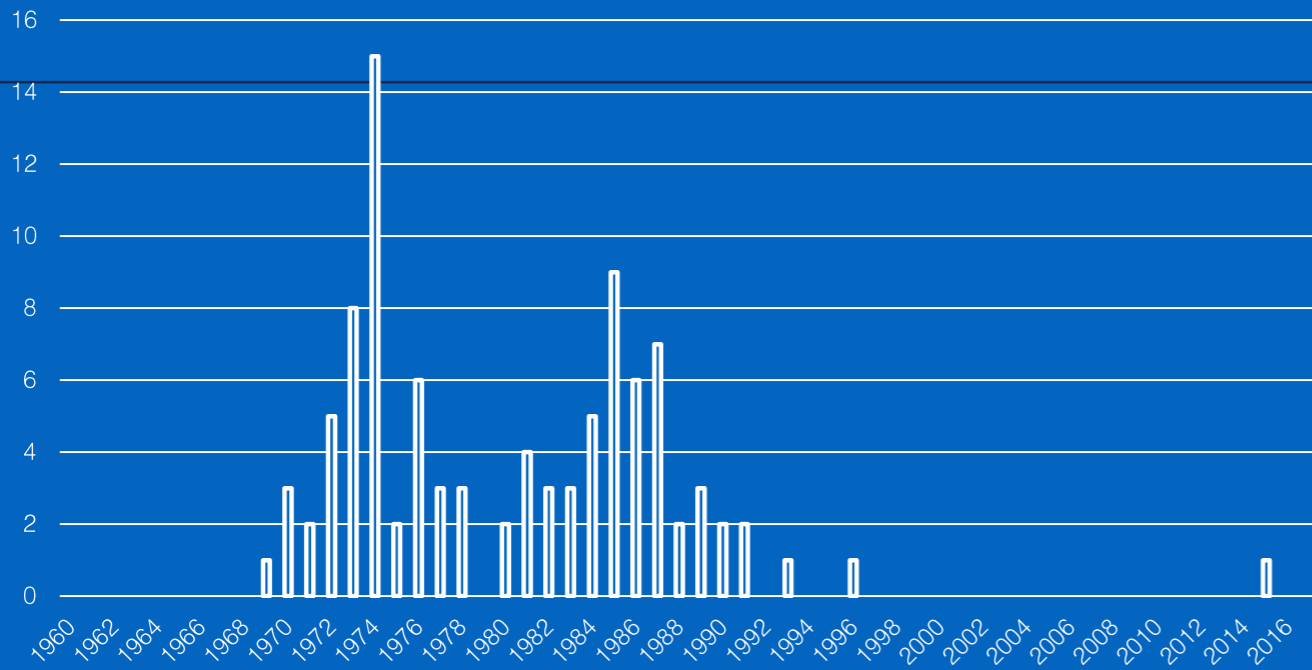

THE DECOMMISSIONING CHALLENGE FOR COMMERCIAL NUCLEAR POWER



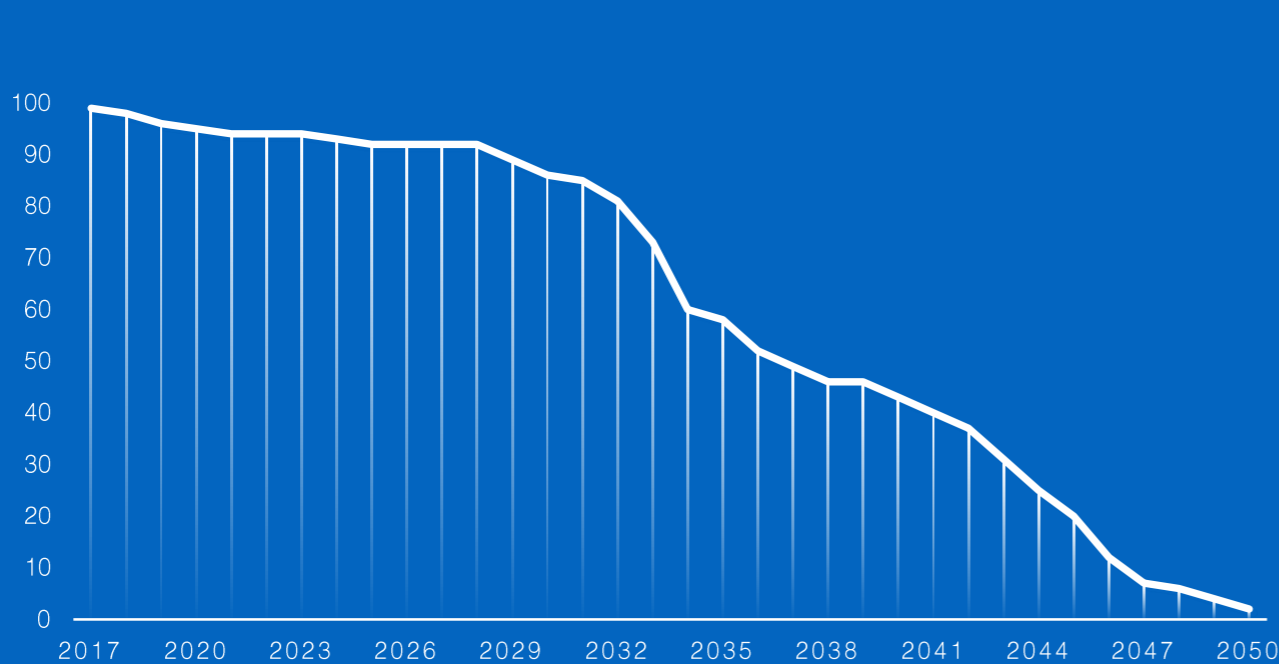
GEOFFREY H. FETTUS, SENIOR ATTORNEY
NATURAL RESOURCES DEFENSE COUNCIL
EESI PANEL, CAPITOL HILL
July 16, 2018

REACTORS

OF CURRENTLY OPERATING REACTORS LICENSED BY YEAR



OF FUTURE OPERATING REACTORS ASSUMING 60 YEAR LIFETIME



RECENTLY CLOSED

6 reactors at 5 plants

- 2013 - Crystal River (Duke Energy)
- 2013 - Kewaunee (Dominion Energy)
- 2013 - San Onofre 2 & 3(SCE)
- 2014 - Vermont Yankee (Entergy)
- 2016 - Fort Calhoun (Omaha Public Power)

TO CLOSE

7 reactors at 5 plants

- 2019 - Pilgrim (Entergy)
- 2019 - Oyster Creek (Exelon)
- 2020/2021 - Indian Point 2 & 3 (Entergy)
- 2022 - Palisades (Entergy)
- 2024/2025 - Diablo Canyon 1 & 2 (PGE)

UNDER CONSTRUCTION

(UNCERTAIN)

- 2 reactors at 1 plant – AP1000 Alvin W. Vogtle 3 & 4

NRC Rulemaking Stages Thus Far

- Advanced Notice of Proposed Rulemaking, November 2015
- Final Basis for Proposed Rulemaking, November 2017
- NRC staff submission of potential draft rule to the Commission
- <https://www.reginfo.gov/public/do/eAgendaViewRule?pubId=201804&RIN=3150-AJ59>

Likely Schedule for Decommissioning Rule

- Potential Draft Rule in the Fall of 2018/early 2019 with public comment period.
- Potential Final Rule 2019/2020

Some Likely Issues of Interest and Potential Dispute

- PSDAR (Post-Shutdown Decommissioning Activities Report) Should be a Regulatory Requirement
- State & Local Government Role
- Community Transition & Workforce Needs
- Timelines & Adequacy of Funding For Decommissioning
- Emergency Preparedness And Continued Risk Associated With Spent Fuel
- Radiological Issues: Worker Dose, Site Characterization, Cleanup Standards For Decommissioning, and Monitoring Needs