

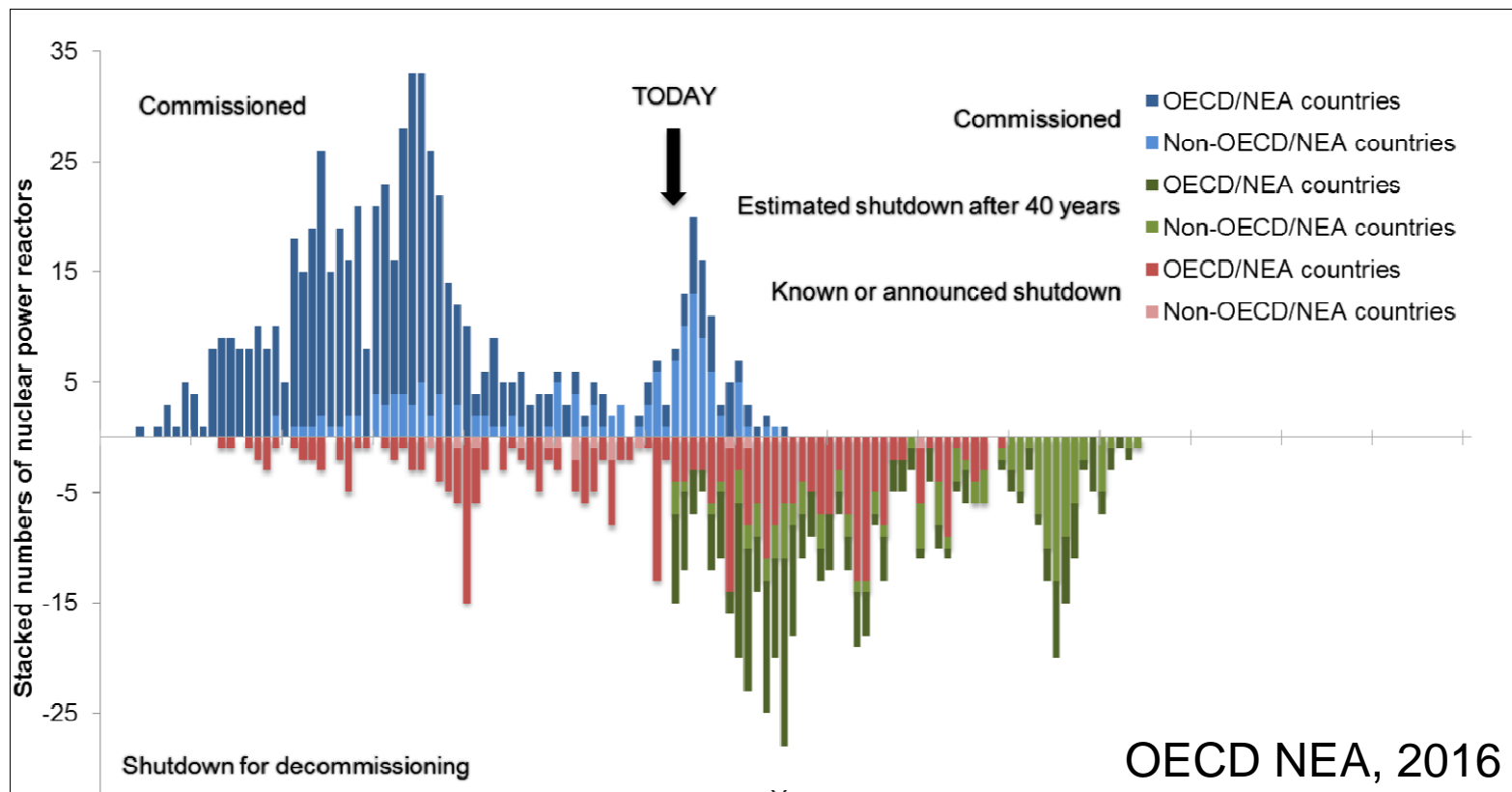


# **Some International Perspectives on Decommissioning Trends & Challenges**

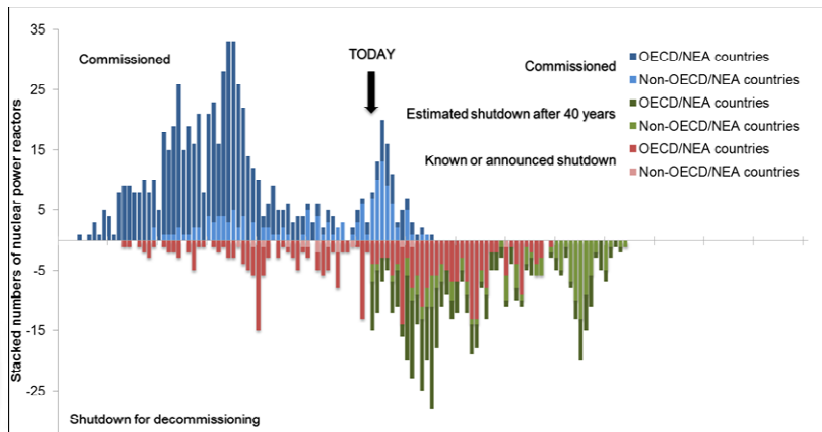
**Simon Carroll**

Session #89: “Status and Update of Decommissioning Power Reactors  
and Material Facilities and Issues”

# Accelerating closure of NPPs



## Accelerated timetable



S\_Carroll, WM 2017, March 2017

## Some implications

- “Stress test” existing systems
  - Delivery (*direct dismantling trend*)
  - Regulatory
  - Financing
- Considerable opportunities
  - Learning
  - Adaptation
  - Innovation
- Project execution a potential source of data
  - Validation
  - Assurance



## **The OECD Nuclear Energy Agency (NEA)**

- The NEA facilitates cooperation in nuclear safety, technology, science, environment, and law
- Current membership of 31 countries in Europe, North America and the Asia-Pacific
- Cooperation with IAEA & EC, incl. international conferences
- Extensive programme related to nuclear decommissioning
- Involves a mix of NPP operators, waste & decommissioning service providers, and regulators



## **NEA Working Party on Decommissioning & Dismantling (WPDD)**

- Preparing for Decommissioning during Operation & after Final Shutdown (TGPFD)
- Optimising Management of Low-level Radioactive Materials & Waste from Decommissioning (TGOM)
- Radiological Characterisation & Decommissioning (TG-RCD)
- Nuclear Site Restoration (TGNSR)
- Decommissioning Cost Estimation Group (DCEG)

# Recent NEA reports



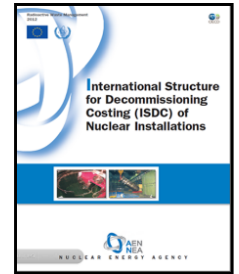
## Report in publication:

“Addressing Uncertainties” *(with IAEA)*

## Next project:

Aspects of “**Benchmarking decommissioning costs**”

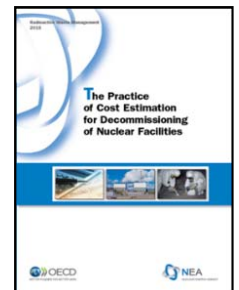
- **ISDC** (2012)  
(with IAEA & EC)



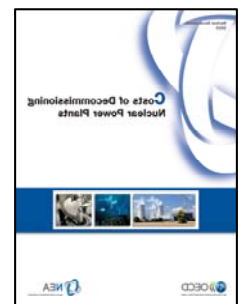
- International **peer review** (2014)



- “**Practice**” of cost estimation (2015)



- “**Costs**” (2016)





# Addressing uncertainties in decommissioning cost estimates

- Joint undertaking of **IAEA and NEA**
  - Describes the **treatment and presentation** of uncertainties in decommissioning cost estimates in a **systematic and integrated** manner
  - Is **consistent with and complements** the existing **ISDC** cost presentation format
  - Describes a **consistent approach** to the treatment of uncertainties, reflecting **current good practices** in cost estimating

S\_Carroll, WM 2017, March 2017

**Session #103, 1:30 pm**  
**Room 105C**



## International Conference on Financing of Decommissioning (ICFD)

- Organised by the OECD-NEA and SSM, held in Stockholm, September 2016
- More than 100 participants from 18 countries + IAEA, NEA & ECA
- Main themes: **financing systems; decommissioning costing; risk management**
- All ICFD presentations freely available on the NEA website at: <http://tinyurl.com/j9cmhx8>





**Thank you!**