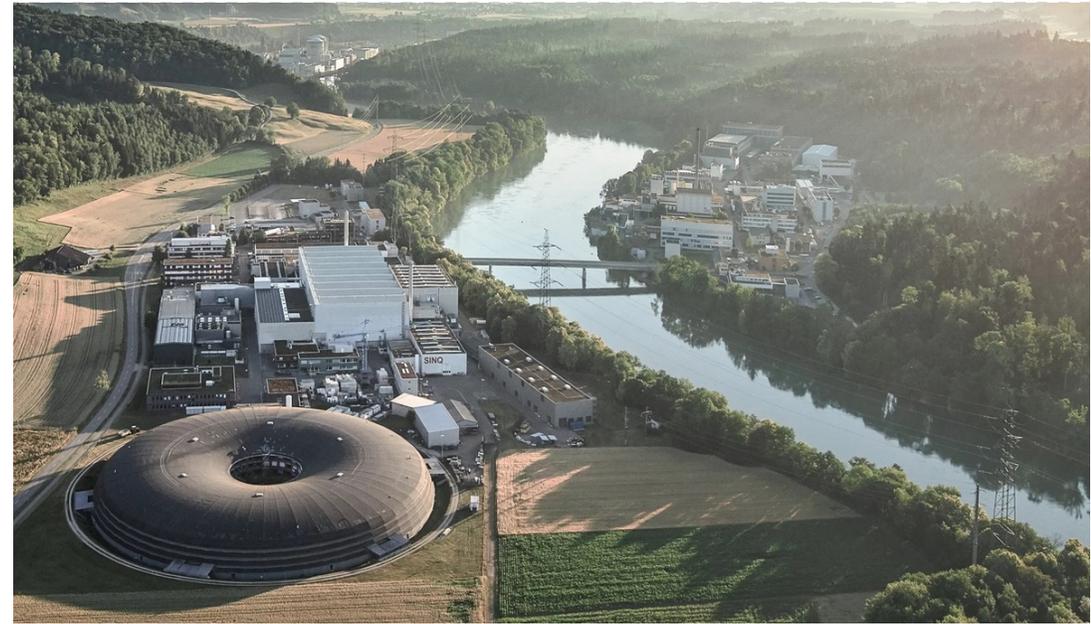


PSI Center for Nuclear Engineering
and Sciences



Summary of the ad-hoc burnup meeting & new SG proposal on burnup

D. Rochman

WPNCS Meeting, June 20th, 2025, OECD NEA, Paris

Ad-hoc meeting, June 18th, 2025



- 4th ad-hoc meeting on burnup assessment on June 18th, within SG16.
- June 2023: SG12 and SFCOMPO-TRG organize a first ad-hoc meeting on burnup:
 - Conclusion: it would be beneficial to arrange a larger-scale workshop to continue and deepen the discussion
- May 2024: support from NSC representative for a working meeting
 - SCK-CEN volunteered to organize such meeting
- September 2024: Ad-hoc experts' meeting on used nuclear fuel burnup assessment, in Antwerp.
Goals:
 - exchange views and raise awareness on needs and current challenges in burnup for current reactors,
 - define a programme of work, or the best way to tackle such a topic
 - identify a leading team willing to steer the effort, and a tentative timeline

Summary of the discussion



- 1 presentation during SG16
- General interest and support from many participants on the importance of understanding
 - What is "burnup" ?
 - Where does it come from ?
 - Its experimental and computational aspects
 - Its uncertainty
 - The needs from users & application fields
 - Implementations in codes (and descriptions in books)
- Conclusion:
 - Support for a new SG on "burnup assessment"
 - Goal of this SG: provide a state-of-the-art report addressing the above questions (and possibly other ones)
 - Future possibilities: perform a test case (similar to the SG12-SG16 approach)

Many thanks

- Questions ?

