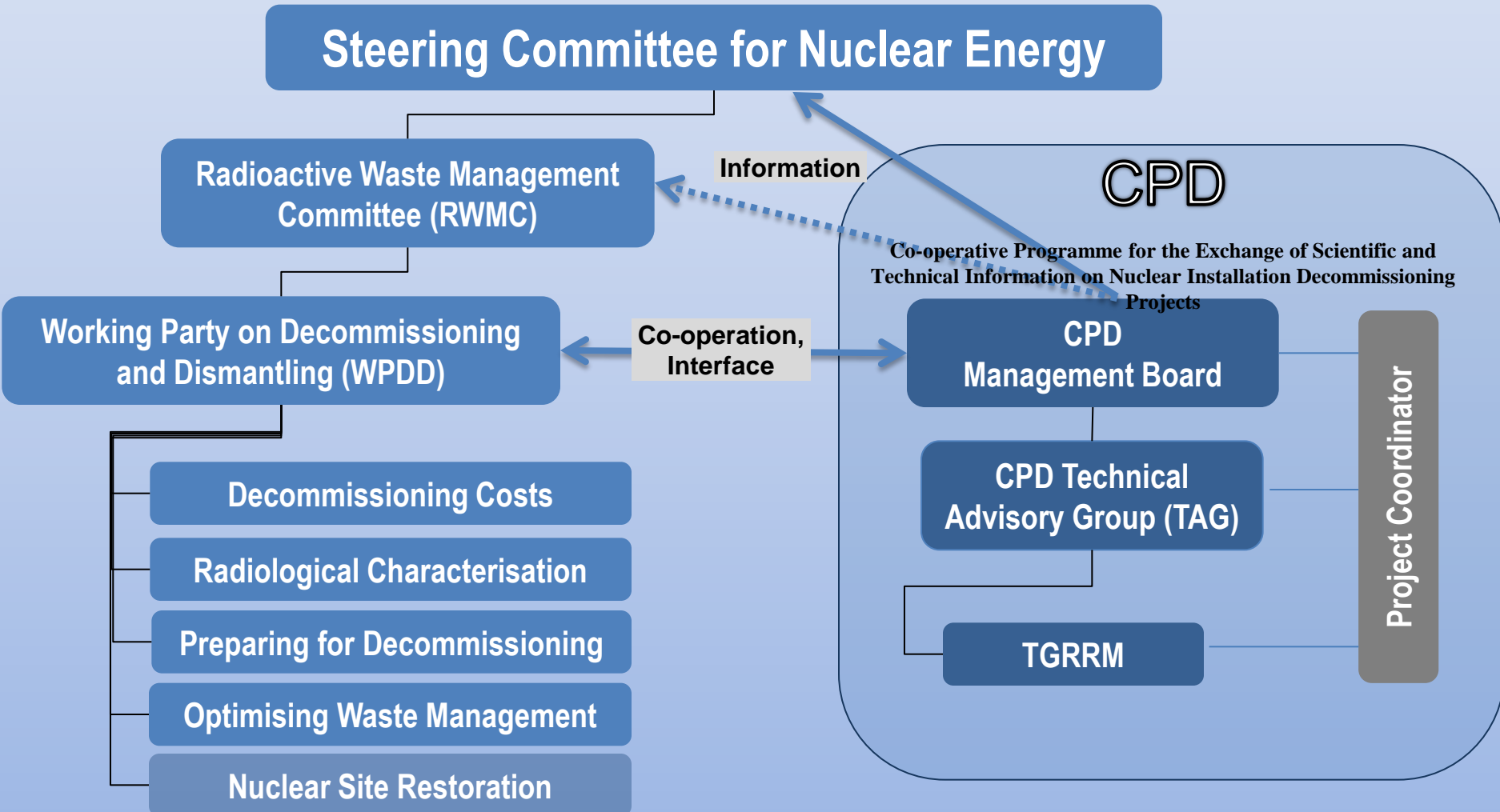


NEA NI2050 Initiative

Information on NEA input for Decommissioning

Inge WEBER

Decommissioning at NEA



5. Role of the NEA: Decommissioning at NEA

Steering Committee for Nuclear Energy

Radioactive Waste Management Committee (RWMC)

Working Party on Decommissioning and Dismantling (WPDD)

Decommissioning Costs

Radiological Characterisation

Preparing for Decommissioning

Optimising Waste Management

Nuclear Site Restoration

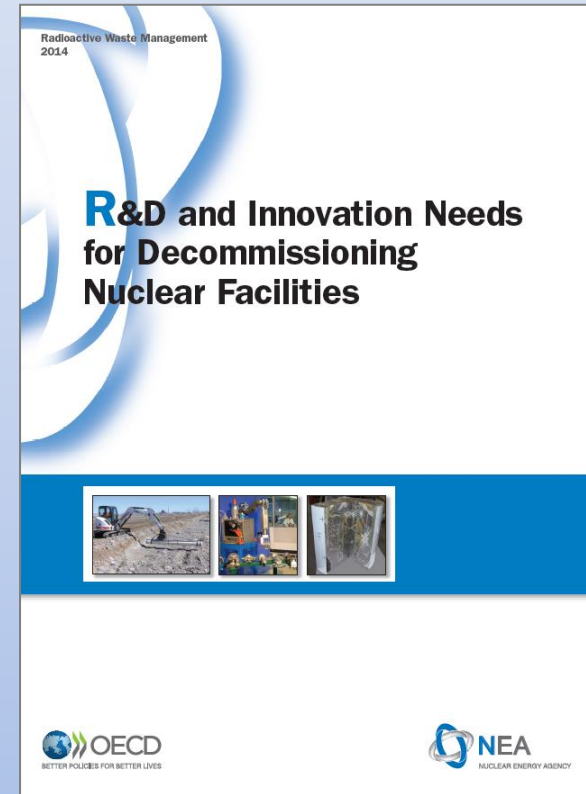
Decommissioning

- Platforms for experience exchange and information sharing
- Stakeholders tackling decommissioning challenges in nuclear facilities designed and constructed by former generation
- Focus: Keeping under review the policy, strategic, and regulatory aspects of decommissioning incl. management of materials, release of buildings and sites from regulatory control and associated cost estimation and funding.
- Reviewing practical considerations for decommissioning implementation
- Covering all types of (existing) nuclear facilities
- Identification of potential areas for R&D development

NEA Publications (1/2)

R&D and Innovation Needs for Decommissioning

- Reference book, over 260 pages, published 08/2014
- Areas with greatest potential for future improvements through R&D - 5 themes
 1. Characterization and survey prior to dismantling
 2. Segmentation and dismantling
 3. Decontamination and remediation
 4. Materials and waste management
 5. Site characterization and environmental monitoring
- Highlights Cross-cutting topics

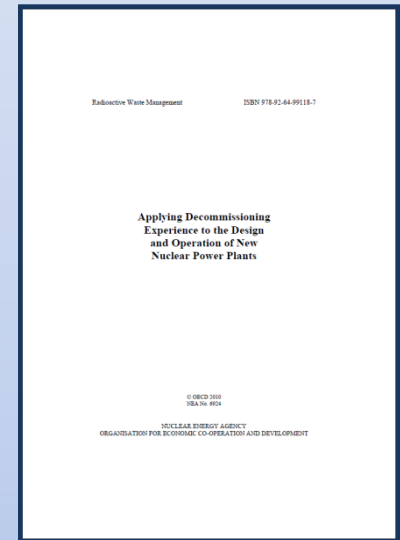


➔ R&D needs of decommissioning and dismantling under observation within the Programme of Work of the Working Party on Decommissioning and Dismantling (WPDD)

NEA Publication (2/2)

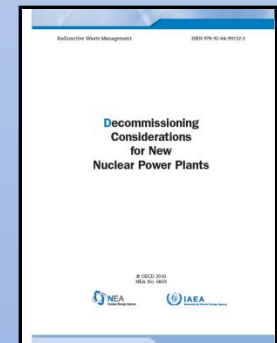
Applying Decommissioning Experience to the Design and Operation of New Nuclear Power Plants (2010)

- Collaborative undertaking of NEA and IAEA
- Current practices in applying experience from decommissioning to the design and licensing of third generation reactor systems
- Basing on study carried out among regulatory authorities, electricity producers reactor design organisations concerned with the development and implementation of new reactors systems, and decommissioning and waste management organisations
- **Link:** <http://www.oecd-nea.org/rwm/reports/2010/nea6924-applying-decommissioning.pdf>

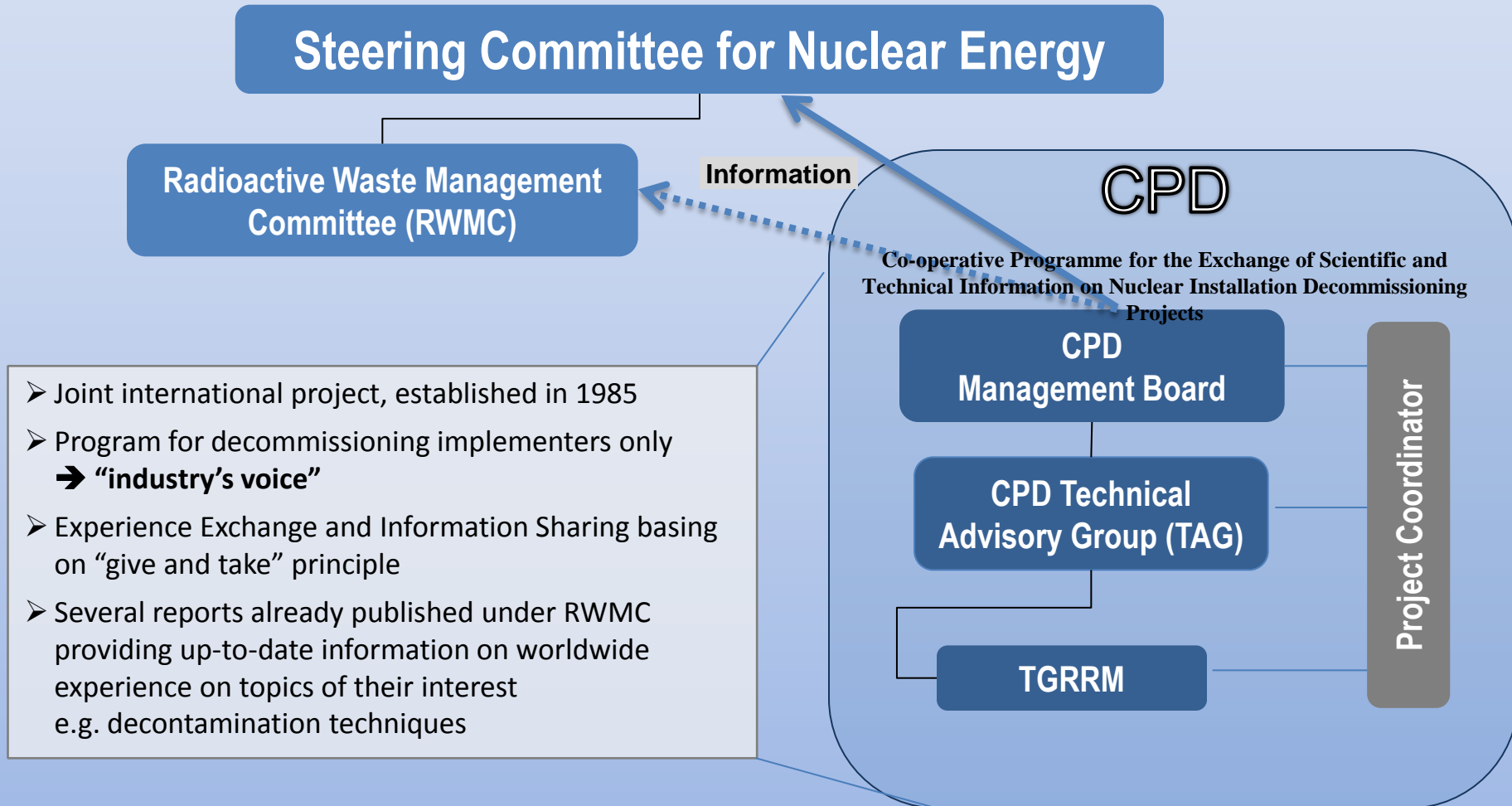


Decommissioning Considerations for New NPPs (2010)

- Summary of main findings of the study
- **Link:** <http://www.oecd-nea.org/rwm/reports/2010/nea6833-decommissioning-considerations.pdf>



5. Role of the NEA: Decommissioning at NEA



R&D for Irradiated Graphite Management

Background

- Dismantling, management and disposal of irradiated Graphite largely unsolved, but some single approaches and R&D initiatives existing
- **Pilot Demonstration Centre for the Uranium Graphite Reactors (PDC UGR)** in Tomsk, Russian Federation, available as demonstration facility
- NEA to explore interested organisations for a **international joint project**

Potential topics of activities

- Engineering aspects of uranium-graphite reactors; dismantling the graphite brickworks;
- RW materials movement in site; internal logistic;
- Primary storage, packaging, characterisation;
- Optimisation the different regulation requirements (safety, fire, etc.);
- Transfer the developed approaches/solutions to decommissioning projects of participants;
- Use the PDC UGR as the international competences centre (when necessary).

Next Steps:

Planned meeting for decision makers and technical experts from interested organisations in Tomsk in November 2016