

# NEA and NDD Activities

**Dr Ron CAMERON**  
**Head, Nuclear Development**  
**OECD Nuclear Energy Agency**

## OECD/NEA Membership

- Australia
- Austria
- Belgium
- Canada
- Chile
- Czech Republic
- Denmark
- Estonia
- Finland
- France
- Germany
- Greece
- Hungary
- Iceland
- Ireland
- Israel
- Italy
- Japan
- Korea
- Luxembourg
- Mexico
- Netherlands
- New Zealand
- Norway
- Poland
- Portugal
- Russia
- Slovak Republic



- Slovenia
- Spain
- Sweden
- Switzerland
- Turkey
- United Kingdom
- United States

OECD and NEA member  
 OECD member, not NEA  
 NEA member, not OECD

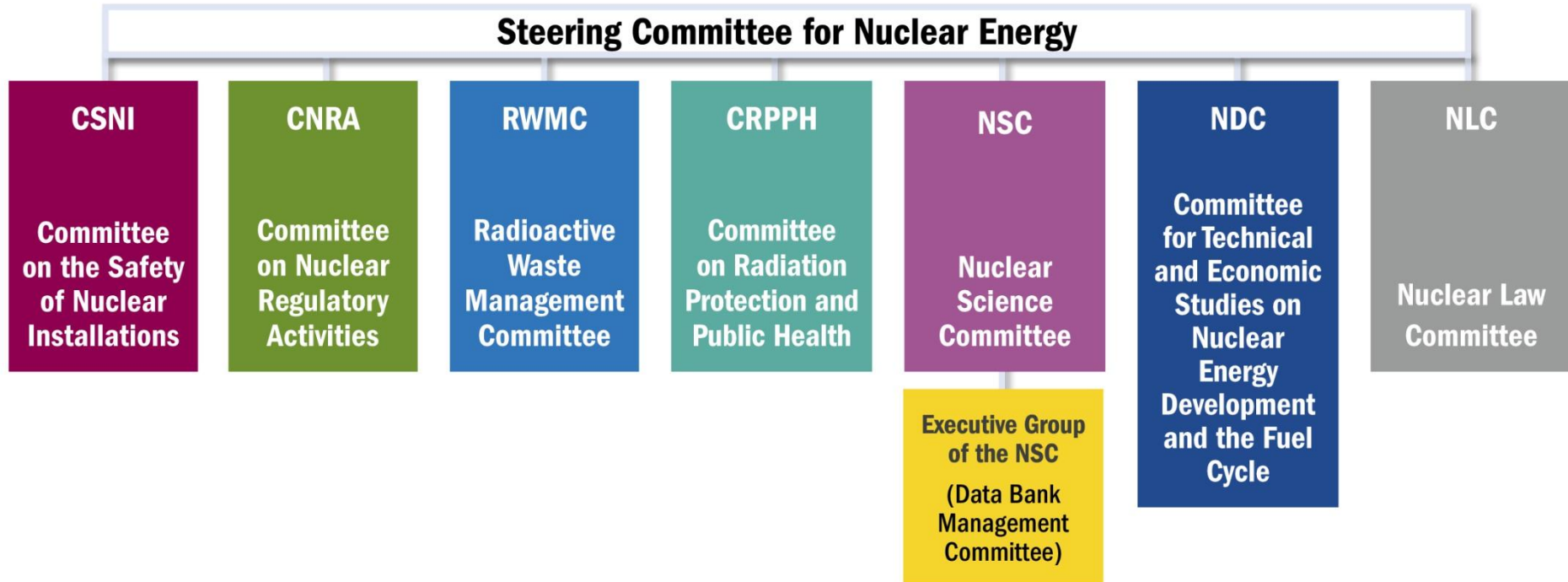


## Mission



- To assist its member countries in maintaining and further developing, through **international co-operation, the scientific, technological and legal bases** required for a safe, environmentally friendly and economical use of nuclear energy for peaceful purposes.
- To provide authoritative assessments and to forge **common understandings** on key issues, as **input to government decisions on nuclear energy policy**, and to broader OECD policy analyses in areas such as energy and sustainable development.

# NEA Committees



# Nuclear Development Committee

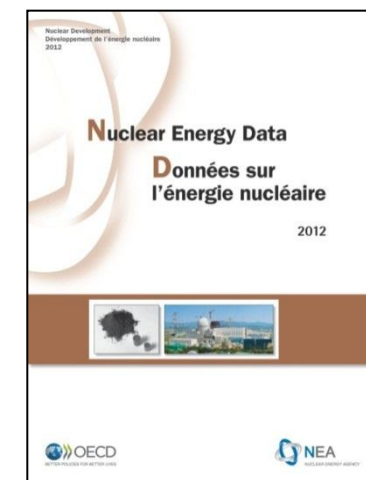
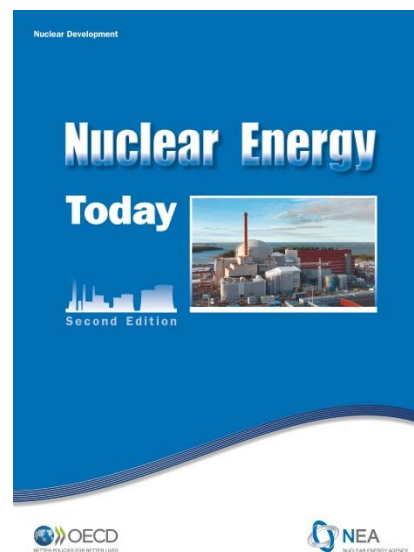
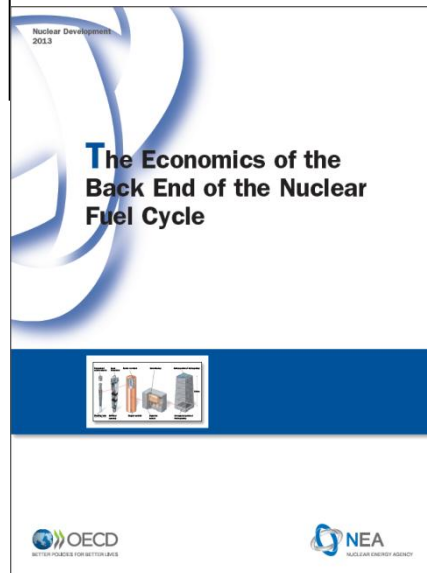
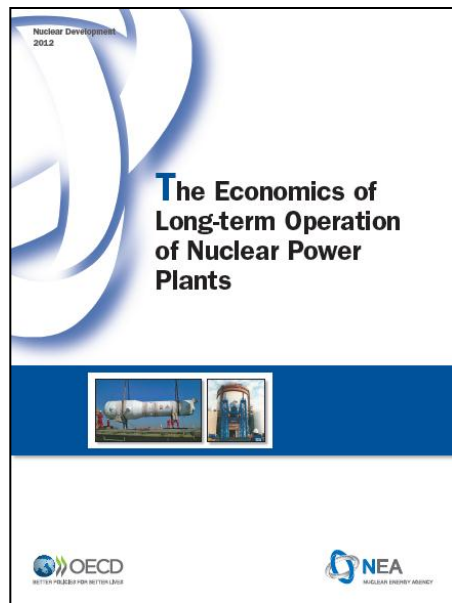
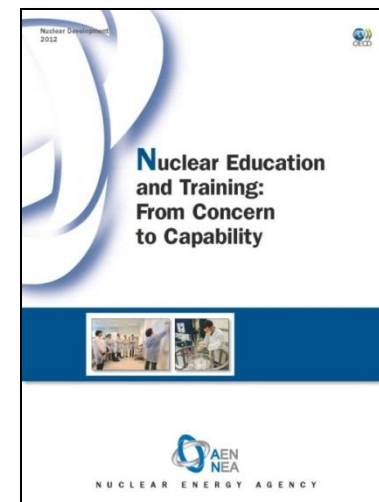
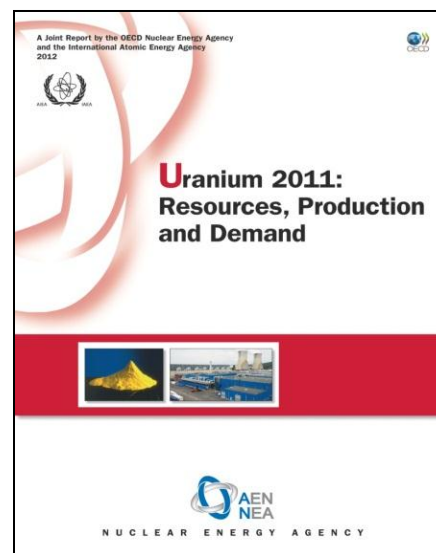
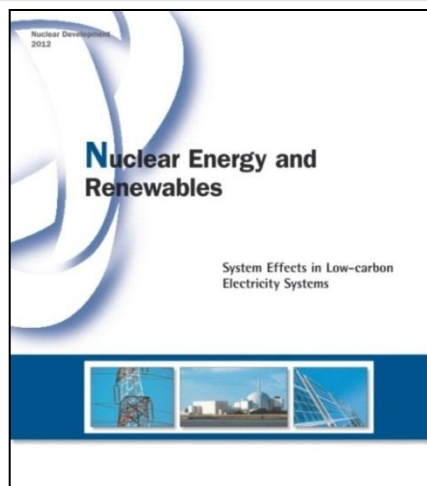
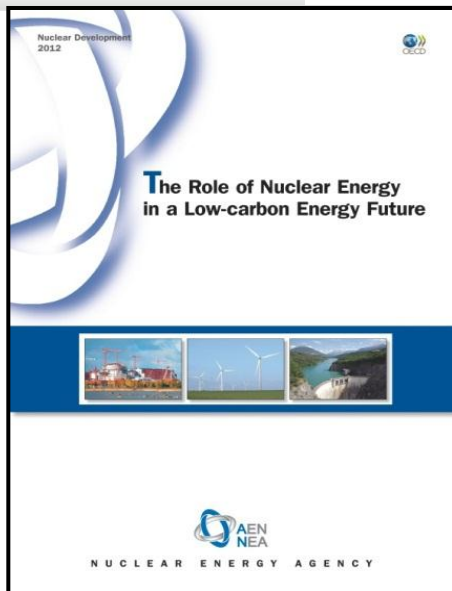
*Addresses economic and strategic issues associated with the nuclear power development and the nuclear fuel cycle*

## ➤ Main areas of work

- ❖ *Nuclear power economics in context of energy markets and in comparison with other energy sources*
- ❖ *Security of supply, climate change, sustainability and nuclear*
- ❖ *Fuel cycle issues – from uranium resources to waste*
- ❖ *Developments in technology, human resources & supply chain relative to new build*

## ➤ Main working methods

- ❖ *Working groups on key topics*
- ❖ *Collaborative work with IEA and IAEA*
- ❖ *Sub groups in NP economics (WPNE) and the Uranium Group*
- ❖ *Special assistance to member countries on selected issues e.g. medical radioisotopes*
- ❖ *Provide factual information for member country use*



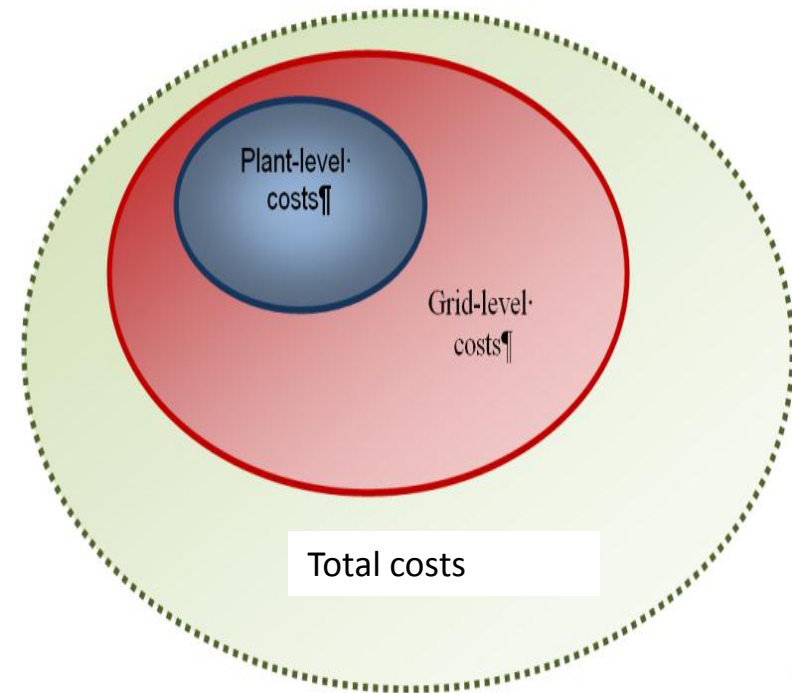
Coming soon:  
Managing Environmental  
and Health Impacts of  
Uranium Mining

ECONOMICS AND DATA	STRATEGIES AND POLICIES
Social and Economic Impacts of Nuclear Power	Uranium Resources, Production and Demand: 2014
Projected costs of electricity – 2015 update with IEA	Impacts of Fukushima on nuclear development policies
Costs of decommissioning – update with RWMC	OECD Nuclear Energy Data
On the Role and Economics of Nuclear Cogeneration in a Low Carbon Energy Future	Climate Change: Assessment of the Vulnerability of Nuclear Power Plants and Cost of Adaptation
Costs of nuclear accidents, liability issues and their impact on electricity costs (with CRPPH, NLC)	Review of Nuclear New Build in Relation to Project Structure, Supply Chain and Financing
Market Study of SMRs	Support to Other Parts of the OECD
	Advice to policy makers



- *Plant-level costs*
  - *Overnight and financing costs* } ⇒ *Projected Costs*
  - *Costs of operation* }
  - *Waste management costs* ⇒ *Economics of the Back End*
  - *Decommissioning* ⇒ *Costs of decommissioning*
  
- *Grid-level system effects (technical externalities)*
  - Grid connection
  - Grid-extension & reinforcement
  - Short-term balancing costs
  - Long-term costs for maintaining adequate back-up capacity

} ⇒ *System Costs*
  
- *Total costs: other externalities*
  - environmental impacts ⇒ NEA 2003
  - effect on security of supply ⇒ NEA 2010
  - social and economic ⇒ Current PoW
  - **costs of accidents**







## Questions

- What are the types of losses that could occur in nuclear accidents?
- How can these losses be estimated?
- Who should be responsible for them – governments, industry, insurers?
- What is the role of the existing conventions?
- How does the nuclear industry compare with other industries?