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.
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
**RECENT MAJOR PUBLICATIONS**

- **Managing Environmental and Health Impacts of Uranium Mining**
- **Nuclear Energy and Renewables**
- **The Economics of the Back End of the Nuclear Fuel Cycle**
- **Nuclear Energy Today**
- **The Role of Nuclear Energy in a Low-carbon Energy Future**
- **Uranium 2011: Resources, Production and Demand**
- **Nuclear Education and Training: From Concern to Capability**

*Coming soon:*
### Topics in current proposals

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Total Costs of Nuclear

- **Plant-level costs**
  - Overnight and financing costs
  - Costs of operation
  - Waste management costs
  - 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

- **Total costs: other externalities**
  - Environmental impacts
  - Effect on security of supply
  - Social and economic
  - **Costs of accidents**

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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?