# INFORMATION SYSTEM ON OCCUPATIONAL EXPOSURE AND ISOE DATABASE

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Since 1992, the Information System on Occupational Exposure (ISOE) has supported the optimization of worker doses in nuclear power plants worldwide. A prerequisite for applying the principle of optimization to occupational radiation protection (ORP) is appropriate and timely exchange of data and information on dose reduction methods. To facilitate this global approach to work management, the OECD Nuclear Energy Agency (NEA) launched the ISOE programme with the objective of providing a forum for radiation protection experts from nuclear electricity utilities and national regulatory authorities to discuss, promote and coordinate international co-operative undertakings for ORP of workers at NPPs. Since 1993, the International Atomic Energy Agency (IAEA) has co-sponsored the ISOE programme, thus allowing the participation from non-NEA member countries.

## ISOE Structure

ISOE operates in a decentralised manner. A Management Board of representatives from all participating countries, supported by the joint NEA and IAEA Secretariat, provides overall direction.

Four ISOE Technical Centres (Europe, North America, Asia and IAEA) manage the programme's day-to-day technical operations, serving as contact point for the transfer of information from and to participants.

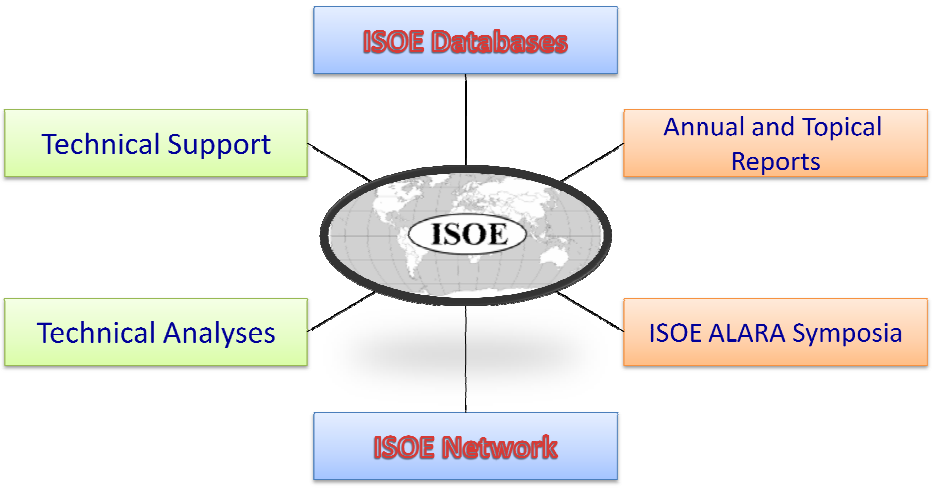
## Membership

Membership in the ISOE programme is open to nuclear utilities and to radiation protection regulatory authorities. Based on feedback as of December 2011, the ISOE programme included 70 Participating Utilities in 29 countries (323 operating reactors; 40 shutdown reactors), and 27 Participating Regulatory Authorities/ Organizations from 24 countries.

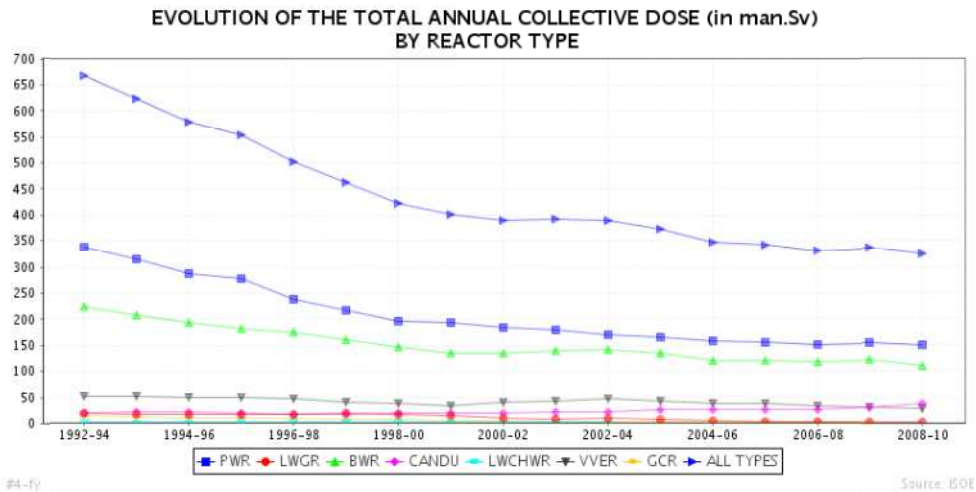
The ISOE database itself contains information on occupational exposure levels and trends at 482 reactor units in 29 countries (401 operating; 81 in cold-shutdown or some stage of decommissioning) covering about 91% of the world's operating commercial power reactors.

## Products and Benefits

ISOE is the world's most comprehensive source of experience and information for occupational exposure management at nuclear power plants, and offers its members a variety of resources for occupational exposure management, including:




- A global network of radiation protection professionals from nuclear electricity utilities and national regulatory authorities
- The world's largest database on occupational exposure from nuclear power plants
- Detailed studies and analyses on current issues in operational radiation protection
- Annual analysis of dose trends and an overview of current ISOE developments
- A forum for discussing occupational exposure management issues through ISOE international and regional Symposia
- Support through responses to special requests and the organisation of voluntary benchmarking visits for the sharing of good practice in occupational radiation protection
- The ISOE Network a "one-stop" information exchange website for ISOE members, providing access to ISOE products, resources, and on-line user forums.




ISOE products support dose trend analyses, benchmarking, technique comparisons; application of ALARA and good work management in local RP programmes.

**ISOE website:** www.oecd-nea.org/jointproj/isoe.html
**ISOE Network:** www.isoe-network.net

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