



European Nuclear Conference
16-20 September 2007, Brussels, Belgium

Exhibition - Nuclear Research

European Commission - 7th EURATOM Framework Programme + JRC Karlsruhe (Stand A)

EU-funded research in the area of applied nuclear science and technology is funded by the European Commission through the Euratom Framework Programme.

The seventh edition of this programme extends from 2007 to 2011. The total budget of €2750M covers research in nuclear fusion (€1947M), nuclear fission and radiation protection (€287M) and the nuclear activities of the European Commission's Joint Research Centre (€517M).

In the fission field, funding is channelled through annual calls for proposals covering the following priority areas:

Management of radioactive waste

Reactor systems and safety

Radiation protection

Research infrastructures

Human resources, mobility and training

The research activities have the objective of enhancing the safety, performance, resource efficiency and cost-effectiveness of nuclear fission and other uses of radiation in industry and medicine

For information on funding possibilities, annual work programmes and calls for proposals, please visit:

http://cordis.europa.eu/fp7/euratom/home_en.html

For more details on Nuclear energy research, please visit: http://ec.europa.eu/research/energy/index_en.htm

Paul Scherrer Institute (Stand B)

The Paul Scherrer Institute has a long tradition in energy research. With respect to nuclear energy, PSI has a unique position in Switzerland. This is due to its heavy infrastructure, namely the Hot Laboratory for work and research on radioactive material, and the PROTEUS facility for reactor physics investigations. In addition, the nuclear energy department takes advantage of PSI's large facilities, the Synchrotron Radiation Source ([SLS](#)) and the Spallation Neutron Source ([SINQ](#)).

The Department is involved in three main topics of research: Safety of currently operating light-water reactors, safety characteristics of future reactor concepts and related fuel cycles, and long-term safety of deep geological repositories for nuclear wastes of all kind.

The work is being done on behalf of the Federal Government and in close cooperation with the Swiss nuclear utilities, the national waste management organization, Nagra, and the national regulatory authority, [HSK](#). It also includes scientific services for the nuclear power plants. Most of the research is connected with international projects on a multi- or bi-national cooperation basis.

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CEA - Commissariat à l'Énergie Atomique (Stand C)

"The CEA's Nuclear Energy Division is in charge of all R&D for the civil nuclear industry. It leads major research programmes concerning existing and future nuclear energy production systems : support for the existing power nuclear fleet, R&D on radioactive waste management and the design of new reactor/fuel cycle systems.

To perform such programmes the Nuclear Division has available a wide range of numerical simulation tools, test experimental installations and laboratories, which are specific to the nuclear field.

The programmes are conducted at national level and within the framework of numerous joint European and international projects (such as Generation IV International Forum).

The nuclear activities of the CEA are localized on three sites : **Saclay** – mostly for basic research, modelling and numerical simulation. **Cadarache** - research in reactors and fuel technologies and, finally, **Marcoule** – which represents a state-of-the-art scientific center for the back-end of the fuel cycle and the conditioning and storage of radioactive material."

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OECD Nuclear Energy Agency (Stand D)

The Nuclear Energy Agency (NEA) is a semi-autonomous body within the Organisation for Economic Co-operation and Development (OECD), located in the Paris area in France. The objective of the Agency is 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.

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ATOMTEX (Stand E)

Scientific and Production Enterprise ATOMTEX was established in 1995 as a daughter division of Minsk Research Instrument-Making Institute. The main activities are development and production of instruments and technologies for nuclear measurements and radiation monitoring for more than 30 years.

SPE "ATOMTEX" is a dynamically developing company, which is one of the world's leader in the field of radiation monitoring equipment.

Company specializes in development and manufacture of the following nuclear instruments: Electronic personal dosimeters; Portable dosimeters; Radiation monitors; Standard dosimeters; Portable spectrometers; Activity monitors; Stationary spectrometers; Whole body counters; Radiation monitoring systems; Calibration benches; Smart probes; Mobile radiation monitoring laboratories; Special Dosimetry Equipments.

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VTT (Stand F)

VTT Technical Research Centre of Finland is the biggest contract research organisation in Northern Europe. VTT provides high-end technology solutions and innovation services. From its wide knowledge base, VTT can combine different technologies, create new innovations and a substantial range of world class technologies and applied research services thus improving its clients' competitiveness and competence. Through its international scientific and technology network, VTT can produce information, upgrade technology knowledge, create business intelligence and value added to its stakeholders. VTT is a non-profit-making research organisation.

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ROSATOM Research (Stand G)

Federal Atomic Energy Agency of Russia

Federal Atomic Energy Agency of Russia is an authorized Federal executive body responsible for implementing the state policy, legal regulation, providing services on behalf of the state and managing state property in the field of the use of atomic energy; for development and safe functioning of nuclear power, nuclear weapons complex, nuclear fuel cycle, nuclear science and technology; for nuclear and radiation safety; non-proliferation of nuclear materials and technologies as well as for international cooperation in this area.

Nuclear industry comprises approximately two hundred enterprises with more than 300,000 employees. The industry is structured as four large scientific and production complexes.

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NRG (Stand H)

As the Dutch centre of excellence, the **Nuclear Research & Consultancy Group (NRG)** enables sustainable applications of the nuclear technology for energy, health and environment. **The institute of energy (IE)** provides scientific and technical support on energy issues to policy makers of the European Union. Currently a new legal framework is being designed for the future operation and exploitation of the the High Flux (HFR). The retained option is the creation of a Joint Undertaking. The HFR is a key European Infrastructure supporting nuclear safety and health and providing research opportunities for future energy supply and training capabilities. From an historical point of view, the High Flux Reactor (HFR) was considered from the beginning of its operation as a source of neutrons with the goal to provide irradiation services.

The Nuclear Research & consultancy Group (NRG) offers a wide range of high quality services to energy utilities, government, organisations and various branches of industry - including the nuclear, financial services and medical sectors. NRG is a major producer of medical isotopes in Europe.

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Belgian Nuclear Research Centre SCK•CEN (Stand I)

SCK•CEN: behind these six capitals, more than 600 dedicated people advance the peaceful, sustainable, medical and industrial applications of nuclear energy.

SCK•CEN is a foundation of public utility with a legal status according to private law, under the tutorial of the Belgian Federal Minister in charge of energy. The statutory mission gives priority to research on topics of societal concern such as safety of nuclear installations, radiation protection, safe treatment and disposal of radioactive waste, fight against uncontrolled proliferation of fissile materials, and education and training. The available knowledge and infrastructure are also used for services to industry.

SCK•CEN's research activities are concentrated in the following Scientific Institutes:

- Nuclear Materials Science
- Advanced Nuclear Systems
- Environment, Health and Safety

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