

## Nuclear energy in France

Nuclear energy outlook

'70s France chose to nuclear energy. develop nuclear as its base load electricity source as a response to the oil crisis and assure its energy independence.

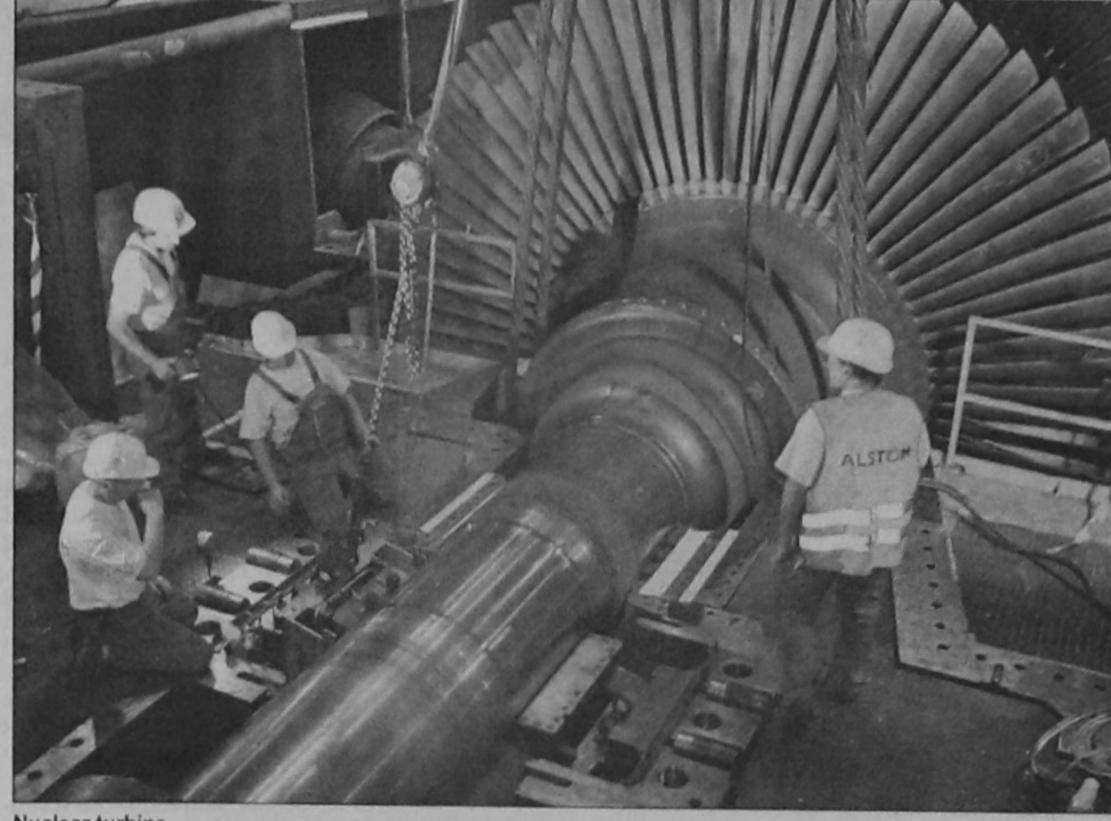
Nuclear electricity production: France currently counts 58 commercial nuclear reactors in opera-80% of French domestic electricity. As a comparison, the 104 US electricity. Despite scarce natural for radioactive waste disposal.

cornerstone of french energy independence of 50%

Environment: As well as providing safe and reliable energy, nuclear helps to reduce French greenhouse gas emissions by avoiding the release of 31 billions tones of carbon dioxide (contrary to coal or gas generation) and making tion responsible for producing France the less carbon emitting country within the OECD. As a leader in nuclear energy, France reactors produces 20% of US has developed clean technology

UCLEAR energy is the resources, France has reached an Reprocessing currently allows France to recover valuable eleenergy policy. In the thanks to its strategic choice for ments from spent fuels and permit a significant reduction of high level waste and lead to safer and optimized containment, for final radioactive waste disposition. French nuclear power plants produces only 10 g/year/inhabitant of highly radio-

> International cooperation and research: France is one of the forerunner in nuclear research and participates in numerous international cooperation pro-



Institute (IPSN) and the Ionizing

radiations Protection Office

(OPRI), the Institute for

Safety is a public establishment of

an industrial and commercial

nature placed under the joint

authority of the Ministries of the

Environment, Health, Industry.

Research and Defense. It is the

Its scope of activities includes:

· environment and response,

major accidents,

• transport safety

· power reactor safety,

· fuel cycle facility safety,

· research installation safety,

· waste management safety;

· nuclear defense expertise.

National radioactive Waste

National Agency for Radioactive

Created in 1991, the French

Management Agency (ANDRA)

· human radiological protection,

· research on the prevention of

**Nuclear turbine** 

grams alongside the United States such as the development of the next generation of nuclear power plants (Gen IV) and the Radioprotection and Nuclear International Thermonuclear Experimental Reactor (ITER) that will be built in Cadarache, South of France.

## The principal public actors of the nuclear sphere in France

The French Atomic Energy serving public authorities whose Commission (CEA)

The French Atomic Energy ASN. Commission is a public body established in October 1945 by General de Gaulle. It constitutes a power of expertise and proposition for the authorities. A leader in research, development and innovation, the CEA is involved in three main fields:

Energy: It develops and acquires the technological building blocks necessary to the development of the nuclear reactors of the future (Contribution to Generation IV

and GNEP research), • It contributes to reducing green- Waste Management is a public house gas emission with its research on hydrogen, fuel cells. biomass, energy storage...,

• It supports the nuclear utilities in France by optimizing the nuclear power plants of the French nuclear fleet and by optimizing the fuel cycle,

• It offers safe and economically viable technical solutions for managing nuclear waste,

· It conducts fundamental research in climate and environmental sciences, high energy physics, astrophysics, fusion, nanosciences...

Information and Health technol-

. It tackles micro and nanotechnologies for telecommunication and nuclear medicine for radiotherapy and medical imag-

. It researches programs on biotechnology, molecular labelling, biomolecular engineering and structural biology, · It shares its knowledge and

know-how through education and training through the National Institute for Nuclear Sciences and Technologies (INSTN), • It manages over 300 priority

patents and is active in the creation of clusters.

Defense and National Security: · It conceives, builds, maintains then dismantles the nuclear warhead of the French deterrence force,

• It helps to fight against nuclear, biological and chemical weapons (NRBC program).

The missions of the CEA are similar to the Department of Energy in the United States. The CEA has a network of counselor or representatives in French Embassies around the world (see

joint map). The French Nuclear Safety

Authority (ASN) Created in 2006, from the former DSIN (Directorate for the Safety of Nuclear Facilities), the French Nuclear Safety Authority is an independent administrative authority which is tasked with regulating nuclear safety and radiation protection in order to protect workers, patients, the public and the environment from the risks involved in nuclear activities. It also contributes to informing the public. Like the Nuclear Regulatory Commission in the United States, it carries out inspections and may pronounce sanctions, up to and including suspension of operation of an installation.

French Institute for Radioprotection and Nuclear Safety (IRSN)

zation that operates independently of waste producers. It is responsible for the long-term management of radioactive waste produced in France under the supervision of the French Ministries for Energy, Research and the Environment. It can be compared to a certain extent to the Office for Nuclear Waste of the Department of Energy in the United States. Andra also pursues industrial,

industrial and commercial organi-

research, and information activities as it designs and implements disposal solutions suited to each category of radioactive waste:

· the collection, conditioning, disposal of radioactive waste from small producers (hospitals, research centers, industry),

· specification of waste packages for disposal,

· disposal in suited sites,

Monitoring of closed disposal

· research programs for long-lived and high level activity waste, especially through the operation of an underground research laboratory in a deep clay formation...

General Directorate for Energy and Raw Materials (DGEMP)

The General Directorate for Energy and Raw Materials represents the government and is part of the Office of the Department for Ecology and Sustainable Development. It defines the French nuclear policy. The DGEMP takes care of the energy supply, the security of supply, oil refining and logistics, nuclear industry, and coal and mines. Consequently, its activities

· the design and implement energy and raw material supply

· to ensure opening of electricity and gas markets,

· track key energy and raw material sectors,

· to oversee enterprises and public institutions in energy sector.

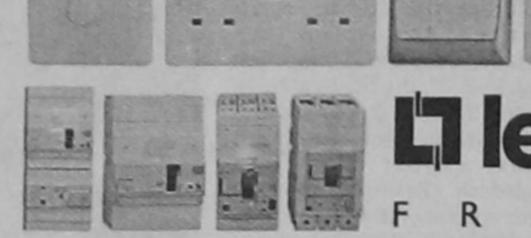
· to ensure compliance with rules and regulations governing energy

· to participate in European and international energy projects and

working groups, · to provide economic, environmental, and fiscal expertise on

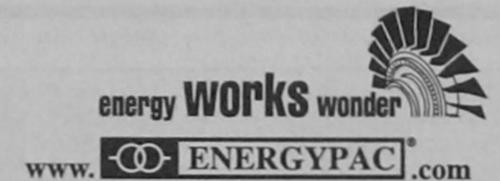
energy matters.

## WISHAHAPPY NATIONAL DAY OF FRANCE





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Warmest Felicitations To The Government And The Friendly People of The Republic of France on their

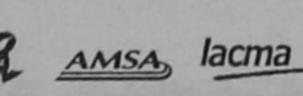
National Day

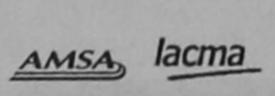


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Created in 2001 by merging the Protection and Nuclear Safety

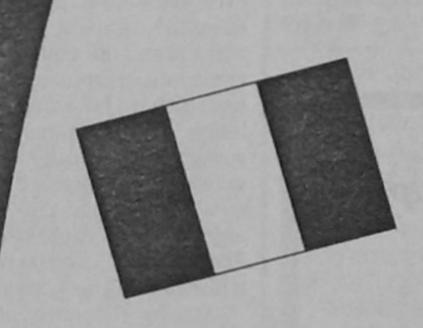


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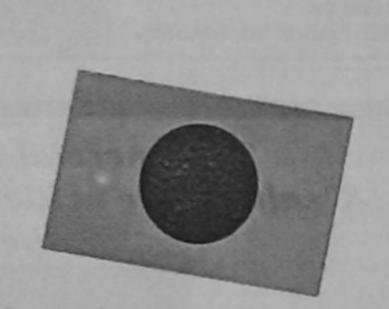
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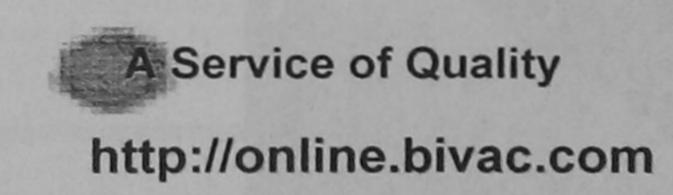
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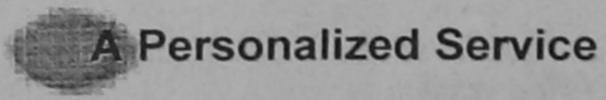


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