

# ROMANIA

## 1. LOCATION AND CAPABILITY OF NUCLEAR FACILITIES

Romania had initially planned to build 5 nuclear power reactors at the Cernavoda site, but in the early 1990s decided to proceed only with the works on Unit 1 due to financial constraints. In 2000, however, the government decided that completion of Cernavoda-2 was a high priority and supplied part of the financing for it. Further finance was raised in 2002-03, including EUR 218 million from Canada. In 2004 a EUR 223.5 million Euratom loan was approved by the European Commission for completion of Unit 2, expected to come into commercial operation by 2007.

In 2002, efforts got under way to resume work on Cernavoda Unit 3, and in August 2004, the government advertised for companies interested in completing the unit. Financing is expected to be organized early in 2006 so that the unit comes on line in 2011. The main actor in nuclear power in Romania, Societatea Nationala Nuclearelectrica (SNN) plans to complete units 4 & 5 by 2020.

<http://www.world-nuclear.org/info/inf93.htm>

### Power Reactors

Operational: 1

Shut down: 0

Decommissioned: 0

Under construction: 1

Planned: 3

<http://www.iaea.or.at/programmes/a2/>

### Research Reactors

Operational: 2

Shut down: 1

Decommissioned: 1

Under construction: 0

Planned: 0

<http://www.iaea.or.at/worldatom/rrdlb/>

### Uranium Mines

Mine	Location	Status
Crucea	Brasov	operating
Avram Iancu	Bihor	decommissioned
Dobrei South	Banat Mountains	decommissioned

## 2. FISSILE MATERIAL HOLDINGS

**Separated Civil Plutonium-** 2.2 tons (end 2002)

[http://www.isis-online.org/global\\_stocks/civil\\_pu.html#table7](http://www.isis-online.org/global_stocks/civil_pu.html#table7)

### Radioactive waste disposal

*Low- and intermediate-level waste:* Existing facilities for waste disposal at the Cernavoda site are designed for 15 years of interim storage of low- and intermediate-level solid radioactive waste and ten years of spent fuel storage. Final disposal of the waste is envisaged to be sited at the Cernavoda area, and the commissioning is considered for 2005-2006.

*High-level waste:* A dry storage facility for spent fuel is being built, based on the Macstor system designed by AECL. The first module was commissioned in 2003. A radioactive waste treatment facility operates at Pitesti and preliminary investigations are under way regarding a deep geological repository. <http://www.foratom.org/Content/Default.asp?PageID=712>; <http://www.world-nuclear.org/info/inf93.htm>

## 3. NUCLEAR ACTIVITIES

### Research Programs

ICEMENERG - National Institute for Energy Research & Development

Institutul de Cercetari si Modernizari Energetice S.A.

NIPNE - National Institute for Physics & Nuclear Engineering

SCN / INR - Sucursala Cercetari Nucleare Pitesti / Institute for Nuclear Research  
<http://www.radwaste.org/research.htm>

### **Nuclear Cooperation**

*Canada, Italy, US:* The Cernavoda Project is based on technology transfer process from Canada, Italy and United States. The traditional Canadian and Italian partners are now focused on securing financing to complete the Cernavoda-2 project by 2005.

*US:* An agreement was signed in 1999 on nuclear cooperation between the United States and Romania under appropriate conditions and controls.

<http://www.clintonfoundation.org/legacy/020999-presidential-letter-to-congress-on-romania.htm>

Romania signed numerous bilateral agreements for nuclear cooperation, covering nuclear safety issues, early notification of nuclear accidents, and other applications of nuclear energy.

<http://www.aneir-cpce.ro/sponsors/nuclearelectrica/international.htm>

## **4. INTERNATIONAL NONPROLIFERATION EFFORTS**

### **Treaties Signed and Ratified, date of deposit**

APM Convention, 30 November 2000

Biological Weapons Convention, 25 July 1979

Certain Conventional Weapons Convention, 26 July 1995

Comprehensive Nuclear Test-Ban Treaty, 5 October 1999

Chemical Weapons Convention, 15 February 1995

Nuclear Non-Proliferation Treaty, 4 February 1970

Open Skies Treaty, 5 June 1994

Outer Space Treaty, 9 April 1968

Sea Bed Treaty, 10 July 1972

Romania ratified the IAEA Additional Protocol 7 July 2000.

### **Multilateral Groups**

Conference on Disarmament

Hague Code of Conduct against Ballistic Missile Proliferation

Nuclear Suppliers Group

Wassenaar Arrangement

Zangger Committee

## **5. POSITIONS TAKEN IN INTERNATIONAL FORA ON VARIOUS ISSUES OF NUCLEAR DISARMAMENT**

*Non-proliferation:* "Recent experience shows that, on their own, (treaties on WMD) cannot prevent determined proliferators from not complying with their international obligations...(a new) approach should comprise not only the goal of universal adherence to, and effective implementation of, conventions that prohibit WMD, but also robust and intrusive verification systems and reliable enforcement measures to effectively counter efforts by any country to illicitly acquire WMD."- **Statement by Ambassador Mihnea Motoc to the 58th session of the General Assembly First Committee on Disarmament and International Security, 7 October 2003.**

<http://www.reachingcriticalwill.org/political/lcom/lcom03/genstate03/romania.pdf>

*Export controls:* "In our view it is essential that all exporting states assume their responsibility and take appropriate measures to ensure that exports of sensitive materials, equipment and technologies are subject to strict control. Export controls must ensure that transfers are made only for peaceful purposes as required by the relevant conventions and treaties facilitating also international cooperation

and technological development.” - **Statement by Ambassador Mihnea Motoc to the 58th session of the General Assembly First Committee on Disarmament and International Security, 7 October 2003.** <http://www.reachingcriticalwill.org/political/1com/1com03/genstate03/romania.pdf>

*Compliance:* “Accountable compliance and strict observation of existing obligations are basic prerequisites to provide a healthy climate conducive to negotiations for new collective security agreements or adaptation of the existing ones. Universal adherence has to be the standing objective related to multilateral agreements currently in force.” - **Statement by Ioan Mircea Pascu, Minister of Defense, to the Conference on Disarmament, 7 March 2002.**

<http://www.reachingcriticalwill.org/political/cd/speeches02/rom070302cd.pdf>