

HUNGARY

1. LOCATION AND CAPABILITY OF NUCLEAR FACILITIES

Hungary's main energy resources are coal and lignite. Hungary is also a producer of crude oil and natural gas. In 1993, nuclear energy comprised 24% of total energy production, with coal comprising 31%, oil 16%, and gas 29%. The IAEA reports that in 1997, 55% of fuels were imported. Total nuclear energy consumption covers 12% of the total energy consumption. The nuclear power reactors of Hungary required 271 tons of uranium in 2004. <http://www-pub.iaea.org/MTCD/publications/PDF/cnpp2003/index.htm>
<http://www.world-nuclear.org/info/reactors.htm>

Power Reactors

Operational: 4

Shut down: 0

Decommissioned: 0

Planned: 0

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

Research Reactors

Operational: 2

Shut down: 0

Decommissioned: 1

Planned: 0

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

Uranium Mines

Pécs Mecsek (Baranva province) - closed

2. FISSILE MATERIAL HOLDINGS

Separated Civil Plutonium- 8.0 tons (end 2002)

http://www.isis-online.org/global_stocks/civil_pu.html

Radioactive waste disposal

Low- and intermediate-level waste: Low- and intermediate-level waste from the Pécs plant is stored in an Interim Storage Facility for five years and then transferred to dry storage there. A low-level waste repository operates at Puspökszilagy for institutional (non-nuclear) radioactive wastes. An extensive geological exploration program has been carried out near the village of Bátaapáti; the geological suitability was confirmed, and work will start on the proposed underground repository site in 2005.

High-level waste: Due to interim storage facilities, the government decided that there is no immediate need to establish a high-level waste repository before the middle of the century. However, exploratory work has been done in a clay stone formation and, based on existing data, a country-wide screening took place looking for potential sites. The long-term policy of high-level waste management is now in preparation. <http://www.nea.fr/html/rwm/rf/hungary.pdf>; <http://www.golder.com/default.asp?LID=1&PID=653>

3. NUCLEAR ACTIVITIES

Research Programs

KFKI AEKI: Atomic Energy Research Institute of the Hungarian Academy of Sciences

MTAKK: Chemical Research Center

Fodor Jozef National Public Health Center

Frederic Joliot-Curie National Research Institute for Radiobiology and Radiohygiene

VEIKI: Institute for Electrical Power Research

Institute for Isotope and Surface Chemistry of the Hungarian Academy of Sciences

IKI: Institute of Isotope & Surface Chemistry -

Institute of Nuclear Research - Debrecen

Institute of Nuclear Techniques

MTA; Magyar Tudomá Akadé of the Hungarian Academy of Sciences

Research Institute for Particle & Nuclear Physics

AKKL: Research Laboratory of Materials & Environmental Chemistry

<http://www-pub.iaea.org/MTCD/publications/PDF/cnpp2003/index.htm>
<http://www.radwaste.org/research.htm>

Nuclear Cooperation

US/European Commission: Provided funding (US\$7 million) for a four year safety project at the Paks nuclear power plant.

Canada, France, Romania, UK, US: Hungarian Atomic Energy Authority maintains mutual information exchange agreements with counterpart organizations in Canada, France, Romania, UK, and US.

<http://www-pub.iaea.org/MTCD/publications/PDF/cnpp2003/index.htm>

4. INTERNATIONAL NONPROLIFERATION EFFORTS

Treaties Signed and Ratified, date of deposit

APM Convention 6 April 1998

Biological Weapons Convention 27 December 1972

Certain Conventional Weapons Convention 14 June 1982

Comprehensive Nuclear Test-Ban Treaty, 13 July 1999

Chemical Weapons Convention 31 October 1996

Nuclear Non-Proliferation Treaty, 27 May 1969

Outer Space Treaty, 26 June 1967

Seabed Arms Control Treaty, 13 August 1971

Hungary ratified the IAEA Additional Protocol 4 April 2000.

Multilateral Groups

Conference on Disarmament

Hague Code of Conduct against Ballistic Missile Proliferation

Missile Technology Control Regime

Nuclear Suppliers Group

Wassenaar Arrangement

Zangger Committee

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

Reporting: “Step 12 of the 13 practical steps agreed upon at the 2000 NPT Review Conference remains to be the basis for continued reporting. However, Hungary believes that, in order to assure a high number of submissions, a more general and comprehensive approach could prove to be more effective than the one outlined in Step 12.” - **Implementation of the Treaty on the Non-Proliferation of Nuclear Weapons**, report submitted by Hungary to the Third PrepCom of the 2005 Review Conference (NPT/CONF.2005/PC.III/18) <http://www.reachingcriticalwill.org/legal/npt/prepcom04/papers/hungary18.pdf>

Additional Protocol: “Hungary considers the IAEA safeguard system as an indispensable mechanism to verify compliance with the NPT and to ensure nuclear transparency. Such a system promotes confidence essential for peaceful nuclear cooperation. Hungary believes that the Model Additional Protocol, together with a comprehensive safeguard agreement, now represents the verification standard and lends its full support to making the Additional Protocol mandatory under Article III of the Treaty. Such a decision should be taken at the 2005 Review Conference.” - **Implementation of the Treaty on the Non-Proliferation of Nuclear Weapons**, report submitted by Hungary to the Third PrepCom of the 2005 Review Conference (NPT/CONF.2005/PC.III/18) <http://www.reachingcriticalwill.org/legal/npt/prepcom04/papers/hungary18.pdf>

Fissile Material Treaty: “The Fissile Material Cutoff Treaty is of critical importance to disarmament, non-proliferation and international security. The urgent need to commence negotiations was also confirmed by the final document of the NPT Conference. Therefore the start of these negotiations should be the next step on the way. Hungary supports all practical suggestions and initiatives, which can move the cause of the cutoff treaty into the right direction.” - **Statement of Ambassador Rudolf Joó to the Conference on Disarmament, 15 March, 2001.**

<http://www.reachingcriticalwill.org/political/cd/speeches01/hun150301.html>