

ECONOMIC COMMISSION FOR EUROPE

MEETING OF THE PARTIES TO THE CONVENTION ON ENVIRONMENTAL IMPACT ASSESSMENT IN A TRANSBOUNDARY CONTEXT

Working Group on Environmental Impact Assessment

Thirteenth meeting
Geneva, 17–19 May 2010
Item 5(f) of the provisional agenda

This document has been revised after the thirteenth and fourteenth meetings of the Working Group on EIA, in line with information provided by Germany, Hungary, Poland, Spain and Switzerland.

Rev. 4

EXCHANGE OF GOOD PRACTICES

Application of the Convention to nuclear energy-related activities

Note by the secretariat

The Convention is frequently applied to nuclear energy-related activities. The International Atomic Energy Agency (IAEA) has compiled information indicating that the nuclear energy sector is expected to grow with many nuclear power plants (NPPs) planned or under construction. This informal note presents an indicative list of nuclear-related activities for which EIA and decision-making procedures may be underway or be expected.

The table provided below contains IAEA information (updated to 31 December 2008) on operating nuclear plants and plants under construction in the UNECE member States. The IAEA information is provided voluntarily by participating IAEA Member States. The table also contains information compiled from other sources, official and unofficial, and is possibly incomplete and inaccurate.

Delegations will be invited to provide updated and corrected information.

The Working Group on EIA may be invited to decide on whether this exercise should be repeated at future meetings.

It was suggested that the table below might be improved by the addition of two additional columns:

- (a) Date of the last amendment to information;
- (b) How the Convention is or was applied (e.g. whether notification has occurred).

State	NPP units & other installations in UNECE region, at 31 December 2008 ¹				Information about planned NPP units& installations from other sources	
	In operation		Under construction			source:
	No.	Mwe	No.	Mwe		
Albania					Albania and Croatia plan to jointly build an NPP at Lake Shkoder, close to the border with Montenegro (information of 16 April 2009).	http://www.upi.com/Business_News/2009/04/16/Albania-Croatia-plan-nuclear-power-plant/UPI-84081239904431/
Andorra						
Armenia	1	376			In June 2009 the government passed legislation providing for construction of up to 1200 MWe of new nuclear capacity at Metsamor. Construction is due to begin in 2011-12.	http://en.wikipedia.org/wiki/Metsamor_Nuclear_Power_Plant , http://www.world-nuclear.org/info/inf113.html
Austria						
Azerbaijan						
Belarus					Belarus plans to construct an NPP of the 2,400MW capacity. The first power unit will be put into operation in 2016, the second in 2018.	http://en.wikipedia.org/wiki/Belarusian_Nuclear_Power_Plant , http://www.government.by/en/eng_solution2731.html , http://www.belta.by/en/news/econom?id=477476
Belgium	7	5,863				
Bosnia and Herzegovina						
Bulgaria	2	1,906	2	1,906	Belene 1 and 2 project. Construction of the Belene NPP officially started on 3 September 2008.	http://www.world-nuclear.org/info/inf87.html , http://en.wikipedia.org/wiki/Belene_Nuclear_Power_Plant
Canada	18	12,577				
Croatia					See item on Albania.	
Cyprus						
Czech Republic	6	3,678			A public tender for contractors to build the two new reactors at Temelin took a place in August 2009.	http://www.world-nuclear.org/info/inf90.html , http://en.wikipedia.org/wiki/Nuclear_power_in_the_Czech_Republic
Denmark						
Estonia					See item on Lithuania.	

¹ Source: Nuclear Power Reactors in the World, 2nd edition, 2009, IAEA, Vienna

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Finland	4	2,696	1	1,600	<p>Three new NPP units are under design in Finland. Teollisuuden Voima Oyj is planning a new nuclear power plant unit in Olkiluoto, Eurajoki and Fortum Power and Heat Oyj in Hästholmen, Loviisa. Fennovoima Oy is making plant site investigations in Ruotsinpyhtää, Pyhäjoki and Simo. These companies have submitted to the Ministry of Employment and the Economy their applications for a Decision-in-Principle. EIA procedures were conducted for these projects prior to the submission of the applications.</p> <p>Construction of the disposal facility for final disposal of spent nuclear fuel in Olkiluoto was scheduled to start soon after 2010. The final disposal facility is proposed to come into use around 2020. The Espoo Convention was applied to the project.</p>	<p>http://en.wikipedia.org/wiki/Nuclear_power_in_Finland, http://www.world-nuclear.org/info/inf76.html</p> <p>http://www.stuk.fi/ydinturvallisuus/ydinvoimalaitokset/suomen_ydinvoimalaitokset/en_GB/uudet_laitosyksikot/</p> <p>http://www.stuk.fi/ydinturvallisuus/ydinjatteen_loppusijoitus_suomessa/en_GB/loppusijoitus/</p> <p>http://www.ymparisto.fi/default.asp?contentid=309271&lan=EN</p>
France	59	63,260	1	1,600	<p>In May 2006 the EdF board approved construction of a new 1650 MWe unit at Flamanville, Normandy, alongside two existing 1300 MWe units. Completion is now expected late in 2012. In January 2009 President Sarkozy confirmed that EdF would build a second 1650 MWe, at Penly, near Dieppe.</p> <p>France plans to start operating a deep geological nuclear waste repository for vitrified high-level waste from reprocessing in 2025.</p>	<p>http://en.wikipedia.org/wiki/Nuclear_power_in_France, http://www.world-nuclear.org/info/inf40.html</p> <p>http://www.eubusiness.com/news-eu/science-nuclear.2se/</p>
Georgia						
Germany	17	20,470			<p>The Federal Government through the Federal Office for Radiation Protection (BfS) is responsible for building and operating final repositories for radioactive waste. DBE is the company actually building and operating the repository projects Konrad and Gorleben, while decommissioning Morsleben. Konrad will initially take some 300,000 cubic metres of wastes - 95% of the country's waste volume, with 1% of the radioactivity. It is expected to be operational about 2014. Separated high-level wastes from past reprocessing in France</p>	<p>Bundesministerium für Umwelt, Naturschutz und Reaktorsicherheit</p>

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					are expected to be returned to Germany by 2011 and stored. A total of 108 large casks of glass canisters will be involved, 86 of these are already in storage at Gorleben.	
Greece						
Hungary	4	1,859			Hungary's parliament gave its preliminary approval in March 2009 to a government proposal to start preparations for the enlargement of Hungary's sole NPP in Paks. The Bataapati radioactive waste storage facility started to operate in October 2008 for storing low- and intermediate-level radioactive waste from the Paks NPP.	Ministry of Environment and Water of Hungary
Iceland						
Ireland						
Israel						
Italy					Planning new reactors at one or more of three licensed sites: Garigliano, Latina, or Montalto di Castro	http://www.world-nuclear.org/info/inf101.html , http://en.wikipedia.org/wiki/Nuclear_power_in_Italy
Kazakhstan					In July 2006 Russia and Kazakhstan (Kazatomprom) signed three 50:50 nuclear joint venture agreements totalling US\$ 10 billion for new nuclear reactors, uranium production and enrichment.	http://www.world-nuclear.org/info/inf89.html
Kyrgyzstan						
Latvia					See item on Lithuania.	
Liechtenstein						
Lithuania					In February 2007 the three Baltic states and Poland agreed to build a new NPP at Ignalina	http://www.world-nuclear.org/info/inf109.html
Luxembourg						
Malta						
Monaco						
Montenegro						

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Netherlands	1	482			In September 2008 Delta (50% owner of Borssele) announced that it would build a second unit at Borssele, of 1000-1600 MWe. In June 2009 it began seeking preliminary approval.	http://www.world-nuclear.org/info/inf107.html
Norway						
Poland					The Ministry of the Economy is preparing the Polish Nuclear Energy Programme; the draft document is currently subject to an SEA procedure. See also item on Lithuania.	http://www.world-nuclear.org/info/inf102.html
Portugal						
Republic of Moldova						
Romania	2	1,300				
Russian Federation	31	21,743	8	5,809	20 new capacity and 3 replacement.	http://www.world-nuclear.org/info/inf45.html , http://en.wikipedia.org/wiki/Nuclear_power_in_Russia
San Marino						
Serbia						
Slovakia	4	1,711			Two under construction: Mochovce 3 & 4.	http://www.world-nuclear.org/info/inf91.html
Slovenia	1	666				
Spain	8	7,728			The Ministry of Industry, Tourism & Trade published on 29 December 2009 in the Official Journal, a Resolution by which a public call for the selection of candidate municipalities to host a Centralised Temporary Storage (CTS) Facility for spent fuel and high level waste was launched. This procedure will culminate with the approval of a report on the proposal to be submitted to the Government, who, finally, will designate the site for the CTS. The project will include a storage facility able to accept 6.700 tU of SF, as well as all other radioactive waste which are not suitable for disposal at El Cabril disposal site.	http://www.emplazamientoatc.es
Sweden	10	8,958			The Swedish Nuclear Fuel and Waste Management Company, SKB, decided on 3 June 2009 to select Forsmark in the municipality of Östhammar as the site for the final repository for Sweden's spent nuclear fuel. Site works towards the underground facility could begin in 2013, with full construction	http://www.skb.se/default___24417.aspx http://www.world-nuclear-news.org/WR_Forsmark_for_Swedish_nuclear_waste_0306091.html

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					starting in 2015 and operation in 2023. The applications will be submitted in 2010 and include EIA and a safety analysis.	
Switzerland	5	3,238			Three new nuclear power plant projects in Switzerland.	Swiss Federal Office for the Environment
Tajikistan						
The former Yugoslav Republic of Macedonia						
Turkey			3	4,500	In 2007 a new bill concerning construction and operation of NPPs and sale of their electricity was passed by Parliament and subsequently approved by the President. In spring 2008, Turkey's energy ministry called for bids for the construction of the country's first NPP, to be built in Akkuyu near Mersin on the Mediterranean Sea.	http://en.wikipedia.org/wiki/Turkey_Point_Nuclear_Generating_Station , http://www.dw-world.de/dw/article/0,,3355031,00.html
Turkmenistan						
Ukraine	15	13,107	2	1,900	The Government announced in September 2008 that construction of Khmel'nitski 3 & 4 would resume in 2010 for completion in 2016 and 2017.	http://www.world-nuclear.org/info/inf46.html
United Kingdom	19	10,097			In November 2009 the Government released six draft National Policy Statements on energy policy to 2025. Nuclear power is central to these, and from about 2017 ageing plant, nuclear and other, will be replaced by private investors. The Government expects high-level waste to be buried in a deep repository and two local councils in Cumbria have expressed interest in housing the repository, although discussions remain at a very early stage. The waste from future reactors will be lower in volume but highly radioactive.	http://www.world-nuclear.org/info/inf84.html http://www.guardian.co.uk/environment/2009/oct/19/nuclear-waste-landfill-threat
United States	104	100,683	1	1,165	In February 2010 the President announced \$8.3bn in loan guarantees for construction of two nuclear reactors.	http://www.guardian.co.uk/environment/2010/feb/16/barack-obama-nuclear-reactors
Uzbekistan						