

Milestones

Country: SWITZERLAND

Reporting Year: 2011

Start Year or Reference Year:	2004	End Year:	
Description of Milestone:			
Sectoral Plan (Sachplan) for deep geological repositories			

Comment **# 24264: General**

Tool elaborated, as required by the new Nuclear Energy Ordinance (KEV), by the Federal Office of Energy (a) to settle safety-related and other criteria relevant to the selection of regions and sites, (b) to define the procedure on how to designate sites from candidate regions. Key intentions are to present transparent technical and procedural rules for the site selection process and to implement public involvement. Draft versions of the strategic part have been submitted to commenting by involved bodies in 2006 and 2007. Its final version has been released by the Federal Council on April 2, 2008. The procedure is split into three subsequent phases. In Phase 1, potentially suitable geological regions are to be identified, qualified and accepted for further consideration. Phase 2 is focussed on selecting at least two candidate sites for each repository. Such sites shall be investigated in detail in Phase 3, before license applications for selected sites.

Comment **# 25650: Phase 1 (2008-2011)**

In October 2008, Nagra submits a waste management programme and a proposal on 6 and 3 candidate regions for deep geologic disposal of LILW-SL (SMA) and SF/HLW/LILW-LL (LMA/HAA), respectively. ENSI basically accepts Nagra's proposals early in 2010. The final summary report for Phase 1 is accepted by the Federal Government in November 2011: all of the identified candidate regions can be carried over into Phase 2, and Phase 2 can be launched.

Comment **# 25651: Phase 2 (2011-)**

In March 2011, ENSI accepts Nagra's proposal on site investigations specifically related to Phase 2. In December 2011, Nagra submits first proposals on candidate sites for surface facilities, as a basis for public discussion. The procedure is going on according to plan.

Start Year or Reference Year:	2002	End Year:	2006
Description of Milestone:			
Project Entsorgungsnachweis 02			

Comment **# 24263:**

Completion of the feasibility study for a SF/HLW/LILW-LL repository (EL-HAA/LMA), as requested by the issue of Project Gewaehr in 1988, based on Opalinus clay host rock formation in Northern Switzerland (Zürcher Weinland). Report was submitted by Nagra to the Federal Government by end of 2002. At the same time, Nagra asked the Federal Government to agree to Nagra's proposal to focus future investigations for the Swiss SF/HLW/LILW-LL programme on the Opalinus clay and the candidate siting area of the Zürcher Weinland. After review of Nagra's Technical documentation by national and international expert teams, the Federal Council approves the Entsorgungsnachweis on June 28, 2006. Focussing investigations on the proposed potential region was, however, disapproved.

Start Year or Reference Year:	1996	End Year:	2003
Description of Milestone:			
Candidate site "Wellenberg" for a LILW-SL repository (Stage 2)			

Comment **# 24262:**

Despite decisions on a stepwise concession approach (first only exploratory drift, then repository), project modifications (monitoring, retrievability) and definition of exclusion criteria: negative outcome of a new cantonal vote on mining concession for an exploratory drift in September 2002. The project is abandoned by the potential operator company GNW, which is formally disbanded in 2003 after completion of recultivation and settlement of further obligations.

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Start Year or Reference Year:	1993	End Year:	1995
Description of Milestone:			
Candidate site "Wellenberg" for a LILW-SL repository (Stage 1)			

Comment # 24261:

Wellenberg identified by Nagra as candidate site for a LILW-SL repository ("EL-SMA") after a 12 years' site evaluation procedure (1993), agreement with local community (1994), applications for general licence (federal) and mining concession (cantonal) for exploratory drift and repository in 1994, mining concession being rejected by public referendum in June 1995.

Start Year or Reference Year:	1990	End Year:	1992
Description of Milestone:			
Electronic Waste Management Database			

Comment # 24260:

Implementation of a standardized, decentralized computer-based database system for Swiss radioactive waste (ISRAM), which enables characterization and book-keeping for all conditioned and most of unconditioned waste packages.

Start Year or Reference Year:	1988	End Year:	2004
Description of Milestone:			
ZWILAG			

Comment # 24259:

Planning, construction and commissioning of a central storage facility (ZWILAG) at Würenlingen for spent fuel, HLW and any other type of waste, with conditioning facilities and plasma arc incinerator/melter.

Start Year or Reference Year:	1985	End Year:	1988
Description of Milestone:			
Project Gewaehr 85			

Comment # 24258:

Reports submitted by Nagra in 1985, based on a concept with two repositories (EL-SMA for short-lived LILW; EL-HAA/LMA for HLW, spent fuel and long-lived LILW). Decision of Federal Government in June 1988: demonstration for EL-SMA accepted, for EL-HAA/LMA (crystalline host rock) safety concept and engineering feasibility accepted, but siting feasibility yet to be demonstrated.

Start Year or Reference Year:	1982	End Year:	1982
Description of Milestone:			
Last OECD/NEA sea dumping campaign in the Northern Atlantic Ocean.			

Comment # 24257:

Dumping of Swiss LILW stopped in 1983, formal disclaimer for a continued use of this disposal option by Swiss Government in 1994.

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Start Year or Reference Year:	1978	End Year:	1978
Description of Milestone:			
Feasibility demonstration for geological disposal of HLW in Switzerland			

Comment **# 24256:**

Nagra report submitted to and accepted by authorities. Issue: Nagra has to demonstrate feasibility for disposal of all waste categories (HLW, ILW and LLW) taking account of progress in R&D, until 1985.

Start Year or Reference Year:	1972	End Year:	1972
Description of Milestone:			
Founding of Nagra			

Comment **# 24255:**

Nagra, the National Cooperative for the Disposal of Radioactive Waste, has been founded in 1972 as a private organization in order to manage the task of finding and planning Swiss radwaste repositories. Shareholders are the Swiss nuclear power industry and the Swiss Confederation (on account of waste arisings from nuclear applications in medicine, industry and research).