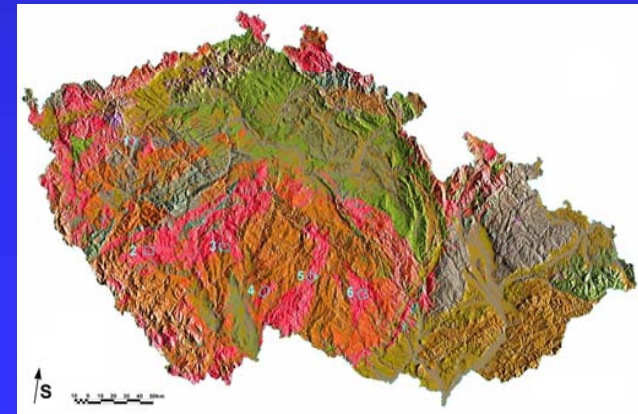
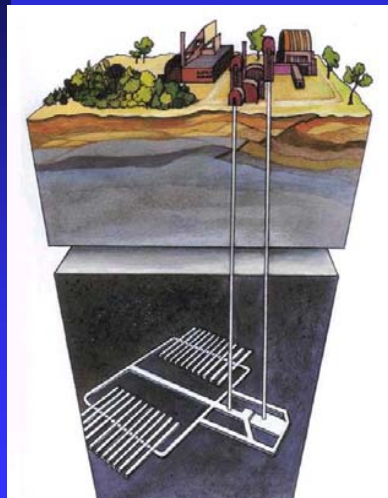


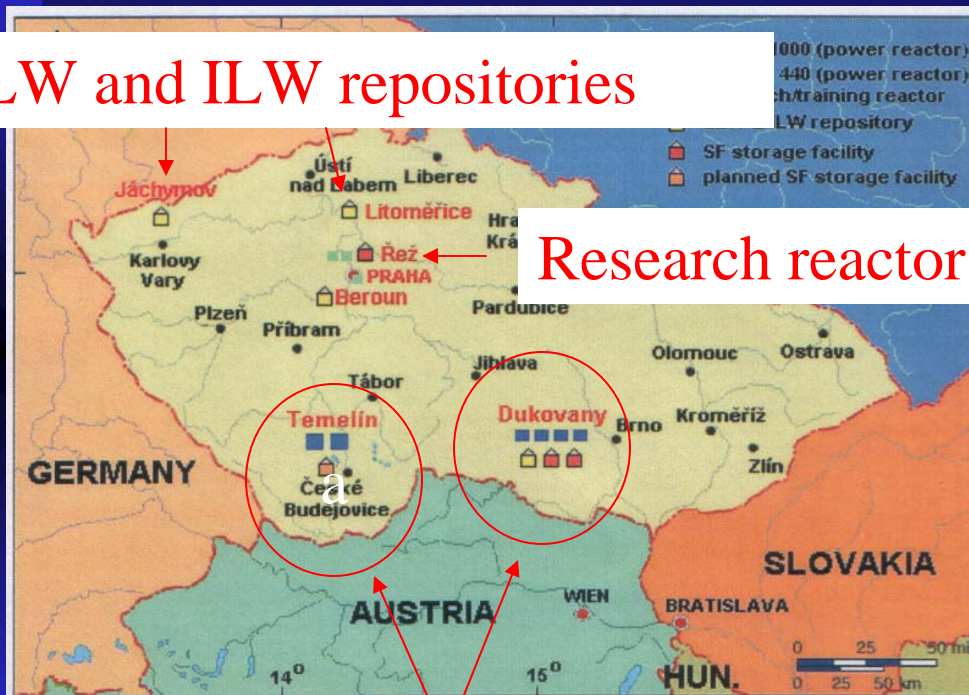
Czech Republic SF + HLW Disposal Concept

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Nuclear Facilities in the Czech Republic

LLW and ILW repositories



Research reactor (NRI)

2 Nuclear Power Stations



HLW inventory

Source	LILW-LL Operation (m ³)	LILW-LL Decommissioning (m ³)	SNF (t)
EDU(1985-2025)	50	–	1,937
EDU(2085-2094)	–	2,000	–
EIE(2000-2042)	50	–	1,787
EIE(2090-2095)	–	624	–
Total NPP		2,724	3,724
Instit. (1958-2000)	80	5	0.2
Instit. (2000-2050)	150	50	0.3
Total institutions		285	0.5

Basic scheme of SF management

■ Dukovany (EDU)

SF pools at each reactor for
683 SFA - approx 7 years
(now about 2250 SFA)



■ Temelin (ETE)

SF pools are for 672 SFA –
approx for 12 years





December 2007

transport of total 362,1 kg of enriched U^{235} from NRI research facility to Russia for reprocessing

- spent fuel from the research reactor

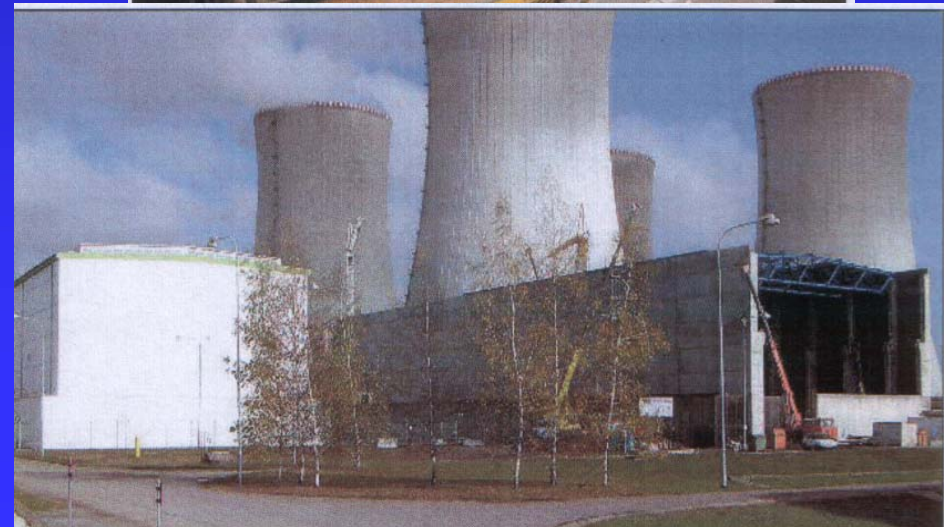
- up to 37,3 kg of 80% enriched U^{235}

according to Global Threat Reduction Initiative (GTRI)

(US DOE support)

SF management – Dry storage facilities (Government Decree 121/1997)

- ISFSF – Dukovany – already almost full with capacity 600 t for CASTOR 440/84 (60 pcs) GNS/NUKEM consortium
- SFSF Dukovany (1340 t) under construction (2006)
- SFSF at Temelin site (1370 t) is under preparation



HLW and SF Management principles of the Concept (2002)

- Global opinion suggests that a **deep geological repository** be utilized for the final disposal of HLW and DGR project started – **DGR in GRANITIC ROCK**
- Research is being carried out into Partitioning and **Transmutation Technologies**
- Costs for disposal will be paid from nuclear account, which is a financial resource created by RAW and SF generators
- The public will be kept informed about the Concept and progress made in achieving its aims
- The evaluation of aims of the Concept is expected around 2010

Main stakeholders in HLW management in the Czech Republic

■ Government organizations

- ◆ **Radioactive Waste Repository Authority (RAWRA)**
- ◆ State Office for Nuclear Safety (SONS)
- ◆ Ministry of Environment
- ◆ Other State Authorities needed in decision making process (primarily State Mining Authority)

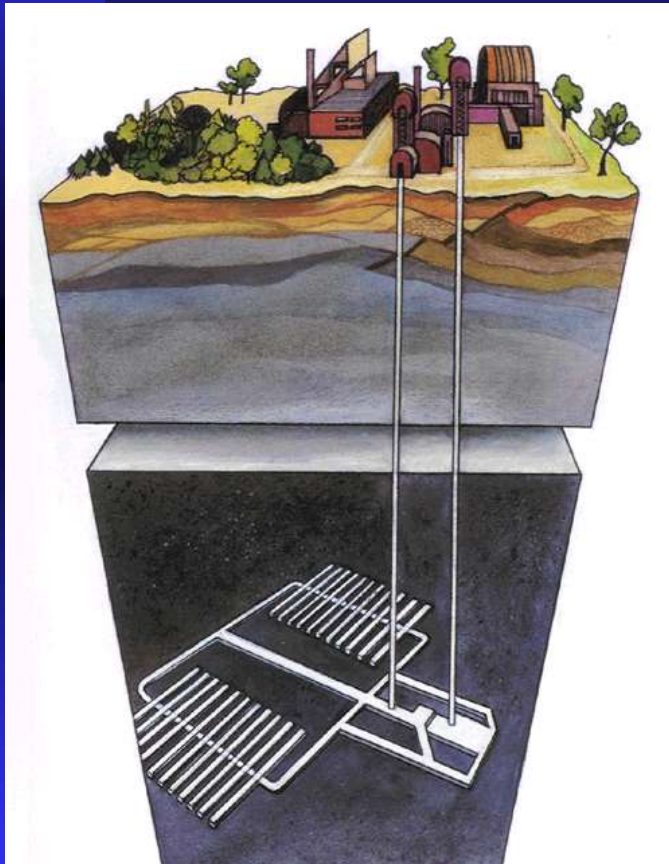
■ Generators of HLW

- ◆ Czech Power Company (ČEZ)

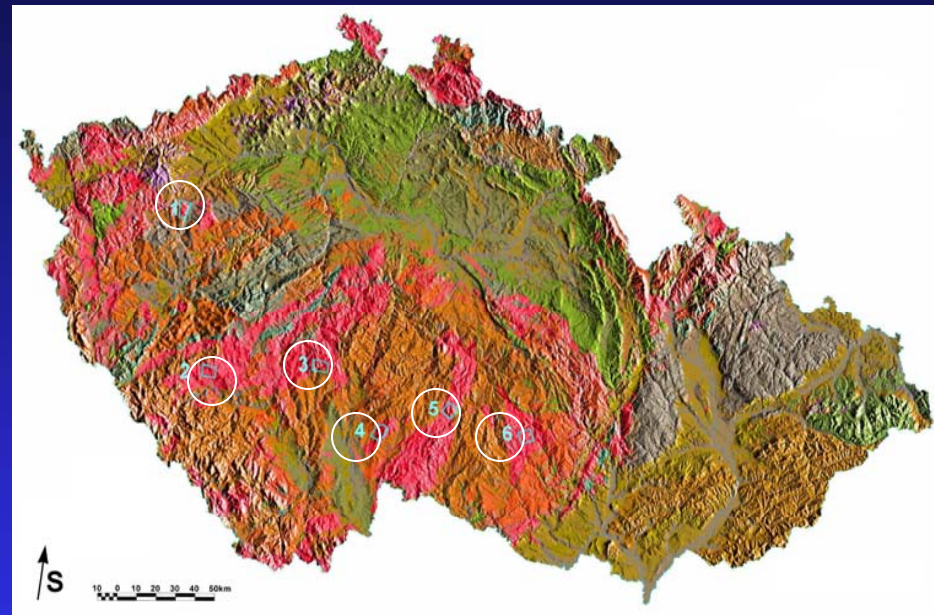
■ Public

- ◆ Ecological movements
- ◆ Individual politicians or group of politicians
- ◆ Public from „nuclear site“ municipalities

DGR in granitic rock



Czech Design of DGR

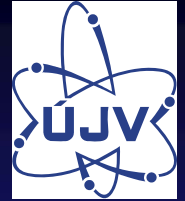


Milestones:

2009 – end of moratorium for siting activities

2015 – 2 potential sites

2065 – DGR opening



THANK YOU FOR
YOUR ATTENTION !!!!!