

National policy and national program for nuclear spent fuel and waste management in SR

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Slovak nuclear history

- 1955 – signature of agreement between Soviet Union and Czechoslovakia about collaboration in nuclear
- 1957 – Experimental reactor in NRI Rez
- 1957 – start of the built of NPP A1
- 1972 – operation of NPP A1
- 1972 – start of built of NPP V1
- 1976, 1977 – 2 accidents at NPP A1,
- 1979 - decision about A1 decommissioning**
- 1979, 1980 – operation of NPP V1
- 1984, 1985 – operation of NPP V2
- 1995 – creation of National Nuclear Fund of SR for decommissioning**
- 1998, 1999 – operation of NPP EMO1,2
- 2000 – Bohunice rad/waste treatment and conditioning centre**
- 2001 – National radioactive waste repository**
- 2006, 2008 – shut down of NPP V1
- 2008, 2014, 2015 – Strategy (national program for decommissioning and RAW and SF treatment**

Nuclear Installations

BOHUNICE SITE

<i>facility</i>		<i>status</i>	<i>licence holder</i>
<i>NPP A-1</i>	<i>HWGCR</i>	<i>decomm.</i>	<i>JAVYS , a.s.</i>
<i>NPP V-1 (EBO1,2)</i>	<i>WWER 440/230</i>	<i>shut down</i>	<i>JAVYS , a.s.</i>
<i>NPP V-2 (EBO3,4)</i>	<i>WWER 440/213</i>	<i>in operation</i>	<i>SE, a.s.</i>
<i>ISFS</i>	<i>wet type</i>	<i>in operation</i>	<i>SE, a.s.</i>
<i>treatment of RAW and SF</i>	<i>different techn.</i>	<i>in operation</i>	<i>JAVYS , a.s.</i>
<i>New NPP</i>	<i>?</i>	<i>?</i>	<i>?</i>

MOCHOVCE SITE

<i>facility</i>		<i>status</i>	<i>licence holder</i>
<i>NPP EMO1,2</i>	<i>WWER 440/213</i>	<i>in operation</i>	<i>SE, a.s.</i>
<i>Ra-waste Repository</i>	<i>near surface</i>	<i>in operation</i>	<i>JAVYS , a.s.</i>
<i>NPP EMO3,4</i>	<i>WWER 440/213</i>	<i>under constr.</i>	<i>SE, a.s.</i>

All have to be decommissioned

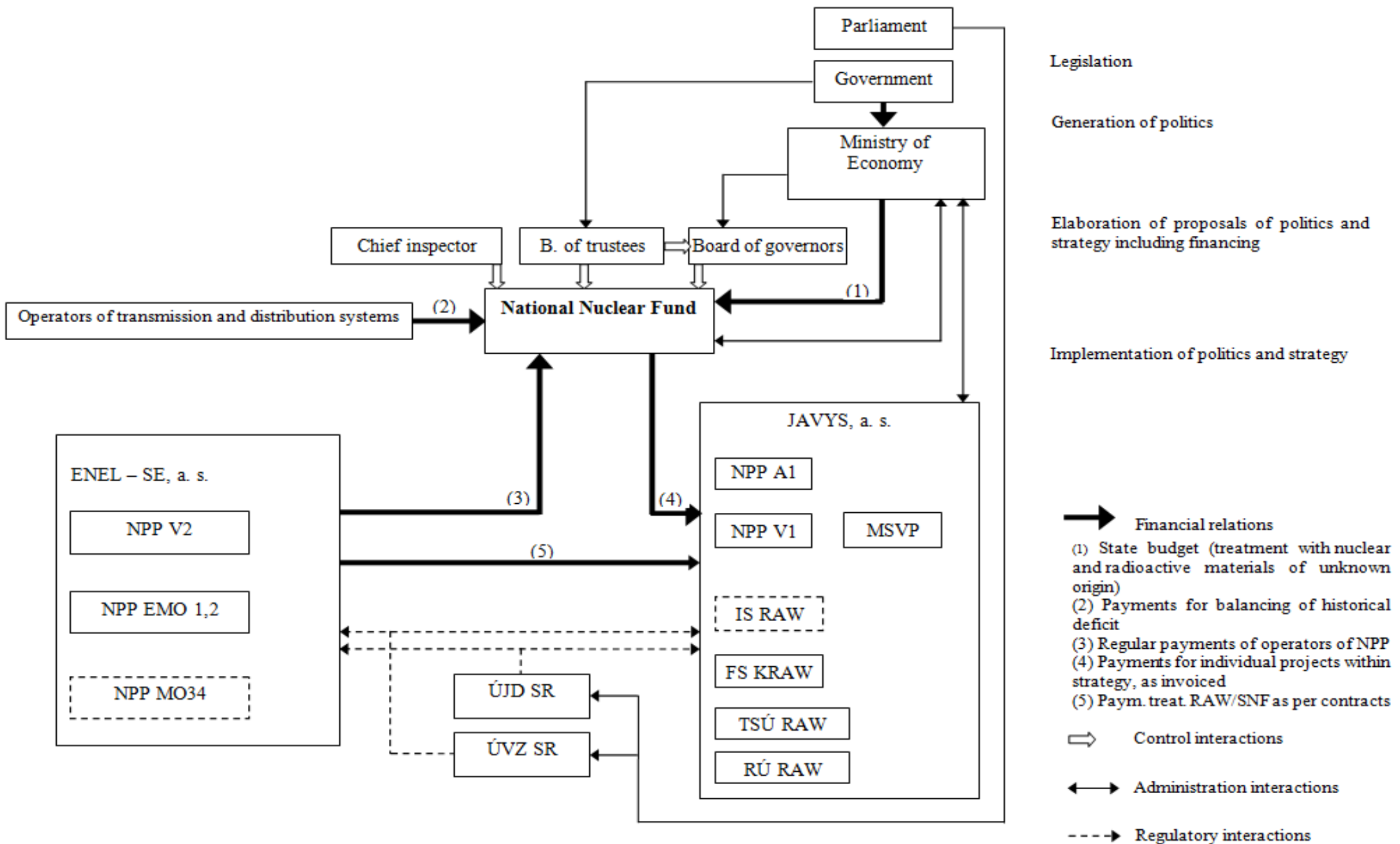
National Nuclear Fund of SR (NNF)

- Created by Law no. 238/2006 Z. z. from 16.03.2006, valid since 01.07.2006,
- Before – since 1994 State fund for decommissioning of nuclear facilities and radioactive waste and spent fuel management.

Now:

- **National nuclear fund for nuclear facility decommissioning and for spent nuclear fuel and radioactive waste management.**

Institutional structure



National nuclear fund NNF

◎ Purpose of the organization:

- to concentrate and manage financial means intended for the decommissioning of NI and treatment of SF and RAW
- to provide these financial means in non-discriminatory and transparent way

◎ Responsibilities of the Board of governors:

- To discuss and submit a budget proposal for respective year with projected budget for next 5 years to the MoE SR
- To elaborate proposal for **decommissioning strategy and for SF and RAW treatment**
- To update proposal in 5 year intervals
- Based on approved Strategy to elaborate medium and long term proposals for financial plan of NNF

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National policy and National programme for nuclear spent fuel and waste management

Main formal motivation:

- Requirement of the **EC Directive 2011/70/Euratom**

Actual situation:

- National policy and National programme were elaborated and approved by Government of Slovak Republic in 08-2015

Principles of the National Policy

- (a) the generation of radioactive waste shall be kept to the minimum which is reasonably practicable, both in terms of activity and volume, by means of appropriate design measures and of operating and decommissioning practices, including the recycling and reuse of materials;
- (b) the interdependencies between all steps in spent fuel and radioactive waste generation and management shall be taken into account;
- (c) spent fuel and radioactive waste shall be safely managed, including in the long term with passive safety features;
- (d) implementation of measures shall follow a graded approach;
- (e) the costs for the management of spent fuel and radioactive waste shall be borne by those who generated those materials;
- (f) an evidence-based and documented decision-making process shall be applied with regard to all stages of the management of spent fuel and radioactive waste