



EUROPEAID
CO-OPERATION OFFICE

Nuclear Waste projects in TACIS

AIDCO – A4

JP Joulia



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TACIS Nuclear safety

1. TACIS Objectives
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3. Assistance for non operational RadWaste management
4. Chernobyl Projects
5. Northern Dimension Environmental Partnership (Nuclear Window)
6. Instrument for Nuclear Safety Cooperation (INSC)
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TACIS Nuclear safety

TACIS objectives

- To promote an effective nuclear safety culture in the partner states.
- To develop strategies for dealing with nuclear wastes and decommissioning.
- To contribute to international initiatives

TACIS Nuclear safety

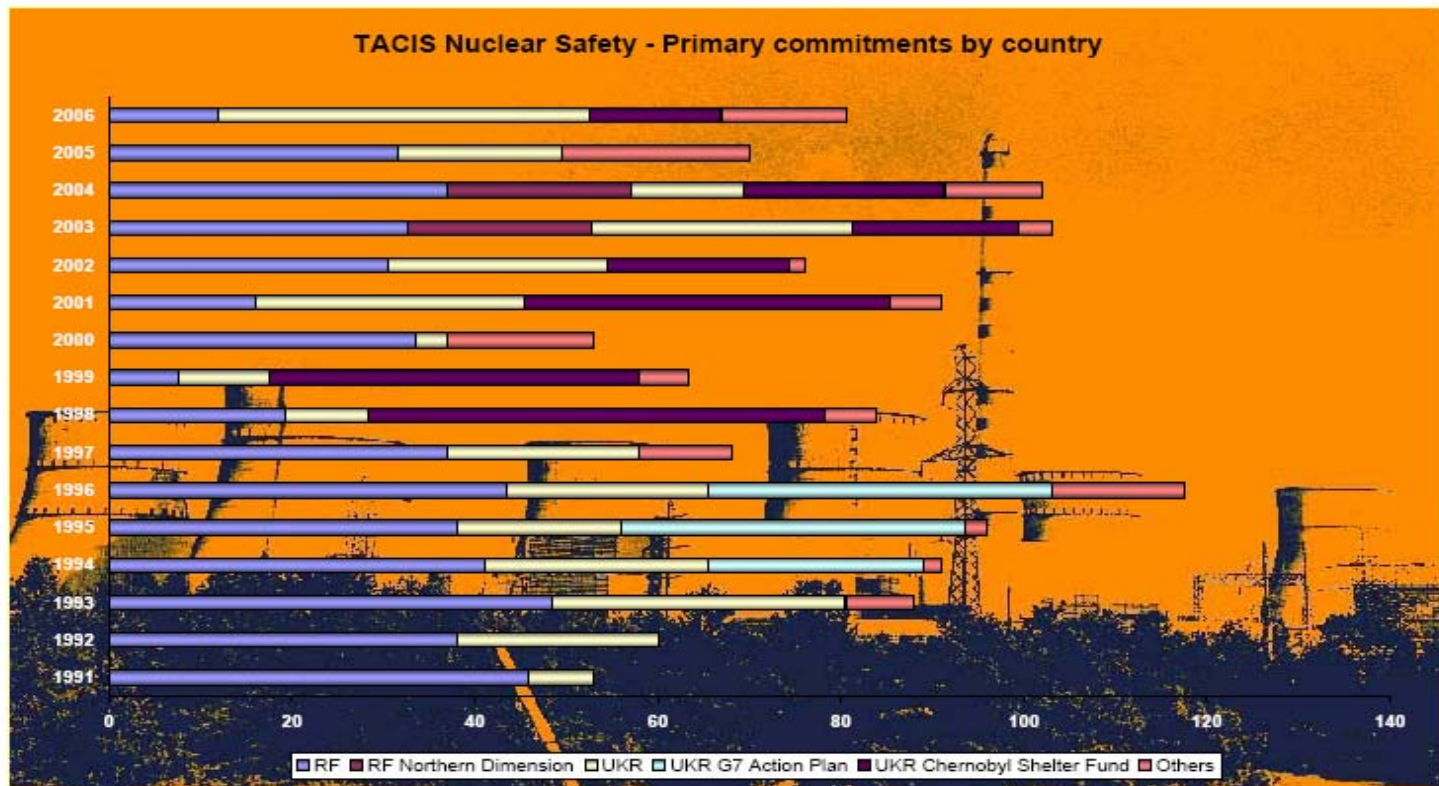
TACIS Implementation

- 1991-1999 : Project driven : urgent measures
- 1999-2006: Coupled assistance to regulator and Power plants (« 2+2 ») and Waste issues : increasing impact and quality
- 2007-2013: New instruments
Nuclear safety : oriented towards co-operation
Security : Non proliferation issues



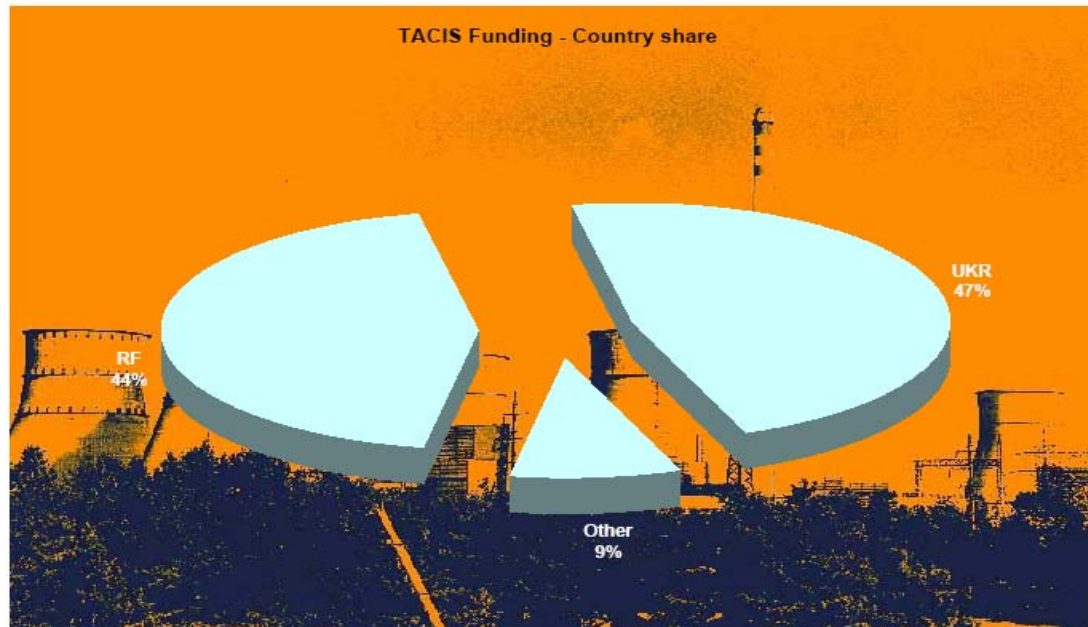
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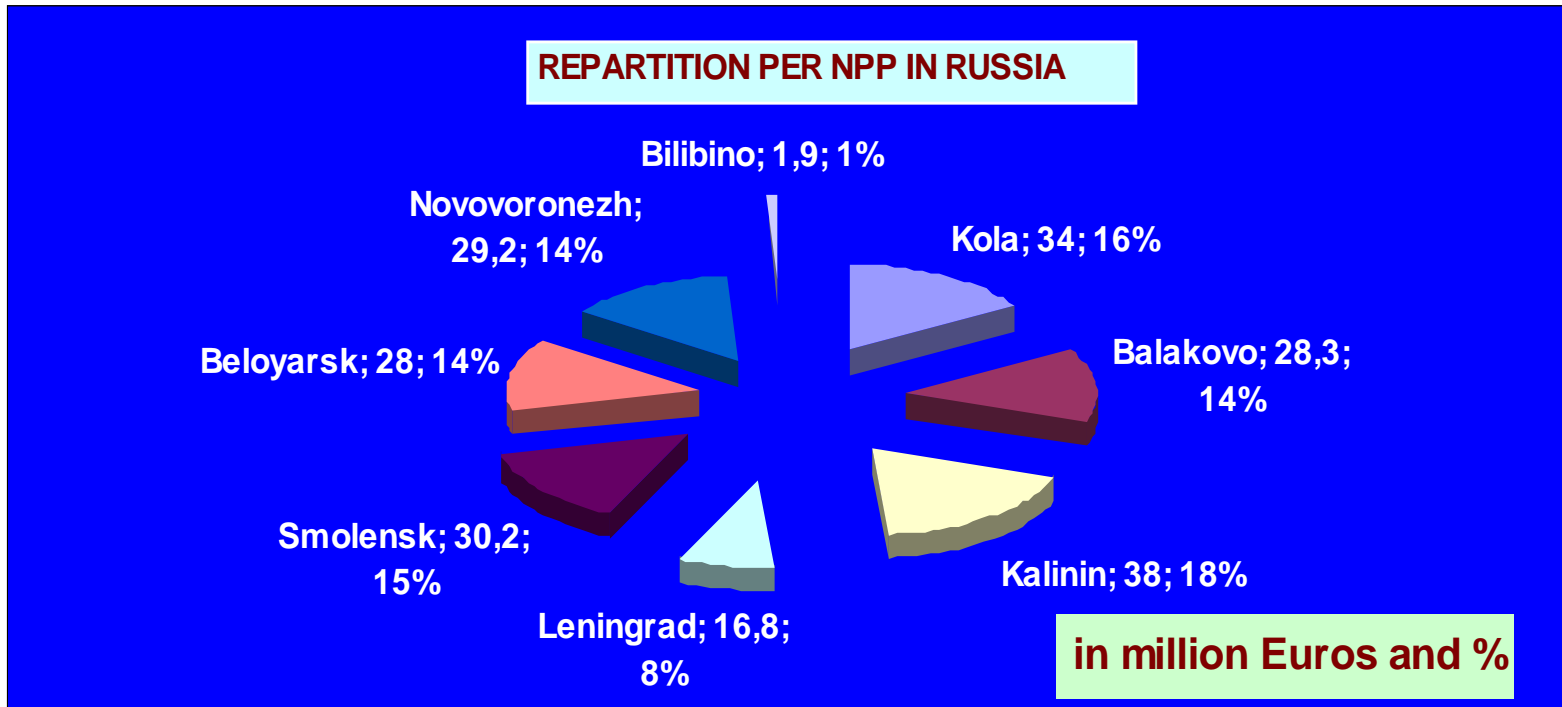


TACIS Nuclear safety

1991-2006 : TACIS funds for nuclear safety 1.3 billion €

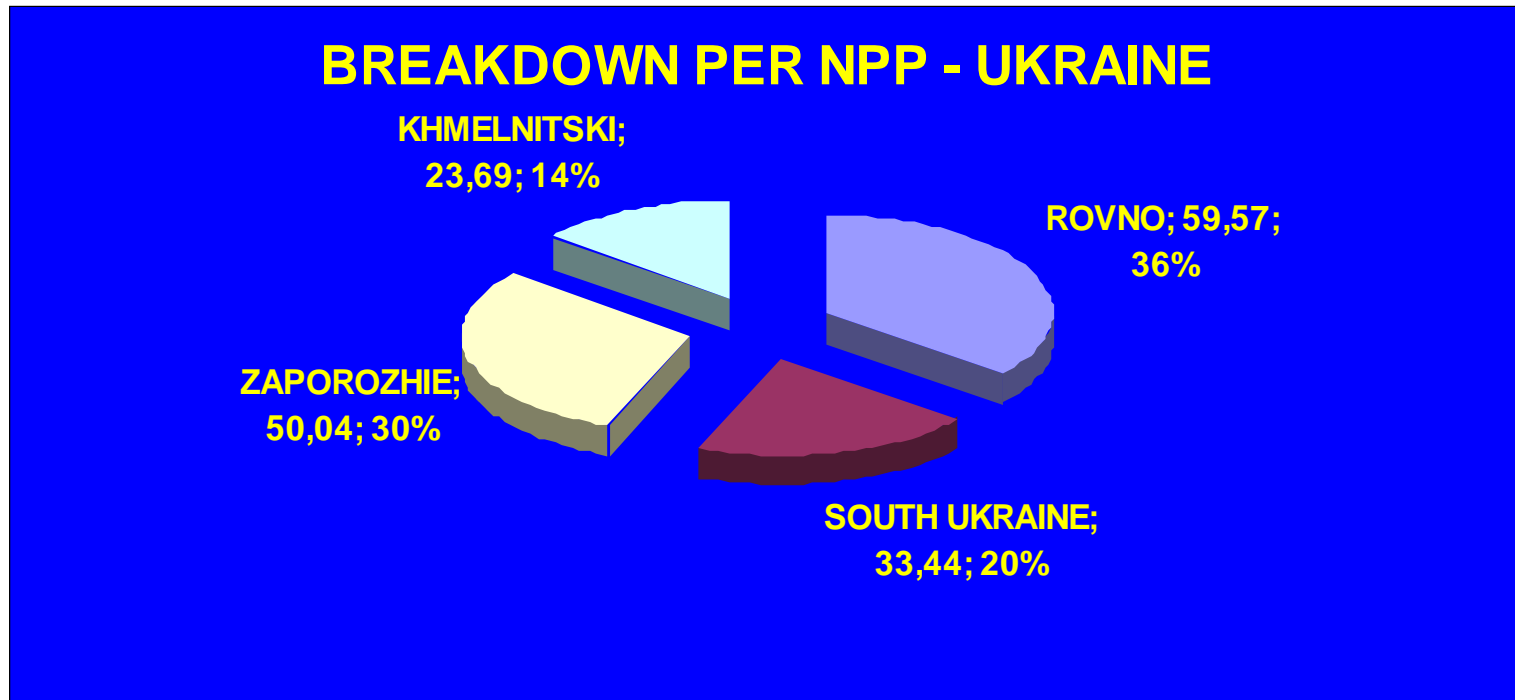


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27 Mio€ (21%) of the funds relate to Waste equipment at plant level

TACIS Nuclear Safety



25 Mio€ (24%) of the funds relate to Waste equipment at plant level

TACIS Nuclear Safety

Waste treatment facilities for Russian and Ukrainian NPPs (PIPs)

Russia

- Smolensk NPP - AP 2004 - 8 M€ - Solid waste low level
- Kola NPP - AP 2004 - 8.5 M€ - Liquid waste low medium level

Ukraine

- Zaporozhie NPP - AP 2006 - 11 M€ - Solid waste low level
- Rovno NPP - AP 2006 - 11 M€ - Solid waste low level

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Assistance for non operational RadWaste management

- Development of RW strategies for Russia and Ukraine
- Radon Centres (Moscow, Murmansk, St-Petersburg)
- Decommissioning of Research reactors (ITEPh, Kurchatov)
- Decommissioning of NP Plants (Chernobyl in Ukraine and Aktau in Kazakstan)
- North/West Russia (Lepse, Murmansk awareness centre, Gremikha)
- Monitoring and remediation (Ob-Irtysch River, Semipalatinsk, Lermontov)



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Chernobyl Projects

Projects in Chernobyl relate to pre-decommissioning and waste treatment:

- ICSR (Integrated Complex for Solid Radioactive Waste management)

- Other facilities:

 - (cutting, de-contamination, provision of concrete containers and steel drums)

- Contribution to the Chernobyl Shelter Fund

- Contribution to the Nuclear Safety Account :

 - (LRTP: Liquid Radioactive Treatment Plant, ISF2: Interim Storage for Spent Fuel)

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ICSRM-LOT 1





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TACIS Nuclear safety ICSRM Lot 1





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I CSRM : Building 84

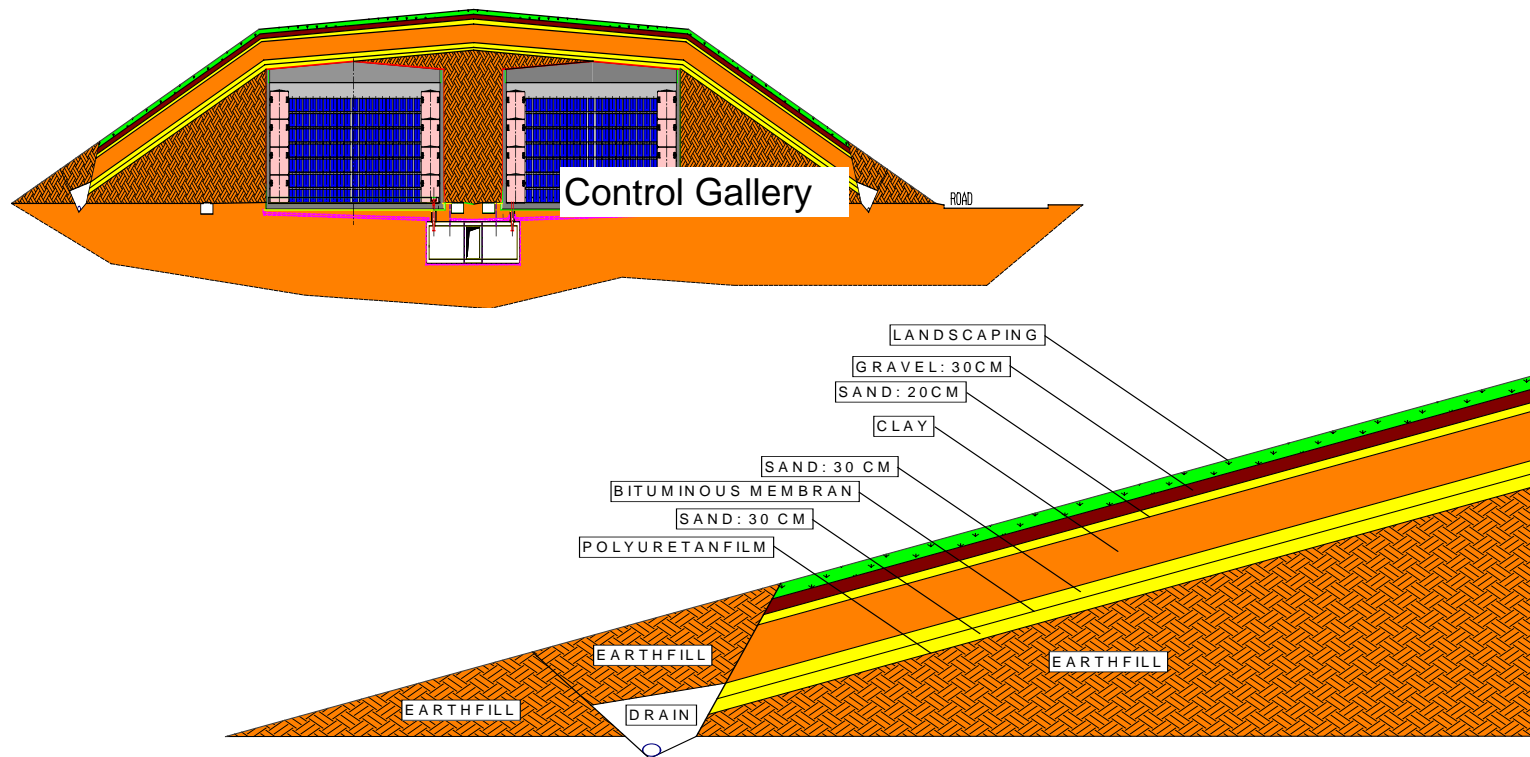




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I CSRM-LOT 3



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Northern Dimension Environmental Partnership Nuclear Window

Support projects addressing the risks of nuclear pollution in the Russian Northern Dimension Area through nuclear safety related projects.

- Cold war legacy of the Northern Nuclear Fleet and other ships
- EU contribution to a Fund managed by the EBRD
- Projects mainly related to :
 - Remediation of contaminated sites and
 - Retrieval and treatment of SNF and Radioactive Waste





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- K4.01/04 - Feasibility Study and Technical Specification for conditioning of BN 350 NPP Liquid and Solid Radioactive Waste - 1.2M€
- R4.02/04S - Assistance to Radon, dealing with radwaste in Moscow Region, supply contract - 0.8 M€
- U4.01/04S - Procurement of a facility for the production of Steel drums for Rad waste storage at ChNPP - 4 M€ (might be modified)
- U4.02/04S - Improvement of the infrastructure for radioactive waste management in the Chernobyl Exclusion Zone - 2 M€
- R4.05/04 - Concept and programme for the realisation of a radwaste repository for short-lived low and intermediate level waste (LILW-SL) in the Leningrad Region - 0.8 M€

and AP 2005 Projects still to be defined

TACIS Nuclear Safety

Instrument for Nuclear Safety Cooperation (INSC)

- a) Continuous support for regulatory bodies, technical support organisations, and the reinforcement of the regulatory framework, notably concerning licensing activities”
- b) Methodologies for the safe transport, treatment and disposal of nuclear fuel
- c) Development and implementation of strategies for decommissioning existing installations and the remediation of contaminated sites”
- d) The promotion of effective regulatory frameworks , procedures and systems to ensure adequate protection against ionising radiations from radioactive materials, in particular from high activity radioactive sources, and their safe disposal.
- e) The establishment of the necessary regulatory framework and methodologies for the implementation of nuclear safeguards, including for the proper accounting and control of fissile materials at State and operators level.

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Future projects in INSC

Future EC supported activities will have to be included in a global national strategy for the sector identifying:

- Partner institutions/Organisations
- Origin of funds and programme of expenditures
- Planning and co-management of the overall programme

The activities will be implemented in co-operation with beneficiaries and stakeholders as multiannual programmes:

- Increase cooperative approach
- Share planning and implementation responsibilities

TACIS Nuclear safety

Information

1. Lien full Internet pour Tendering, Procedures,
[EuropeAid Cooperation Office \(AidCo\)](#)
2. Reports and Publications (AP,...) pour TACIS
[Overview of Tacis programme in Eastern Europe, the Caucasus and Central Asia \(Reports and Publications\)](#)
3. Site RELEX
[Overview of Tacis programme in Eastern Europe, the Caucasus and Central Asia \(Reports and Publications\)](#)
4. Description of TACIS NUC SAF
http://ec.europa.eu/europeaid/projects/tacis/nuclear-safety_en.htm
5. Dissemination (JRC-Russia)
[Dissemination of Tacis Results \(by JRC Petten\) - TSSTP Databases](#)