

International O&M offer of Rosenergoatom. LTO projects. Challenges and solutions.

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REA FOREIGN NPP'S CONSTRUCTION, OPERATION, DECOMMISSIONING RUSATOMSERVICE OPPORTUNITIES





ROSENERGOATOM

Construction				Operation			Decommissi ng
Designing	Complement	Construction and assembly operations	Commissioning	Operation	Repair, modernization, life extension	Radioactive waste and spent nuclear fuel handling	
> > >	Nuclear infrastructur Technical customer Personnel training Commissioning	re					
A A A A	 Technical customer services Personnel training 			Operation Service			
Services for foreign customers Technical customer services, Consultant, architect-engineer		➤ Sec	eration and service services		ntal > Con	tomer's cons stractor for ce s of work	



Rusatom Service — Integrator of the Service Offer of Rosenergoatom Companies for Foreign VVER-Type Nuclear Power Plants





Rusatom Service was created in 2011 by a board decision of Rosatom State Corporation in order to centralize service delivery for foreign nuclear power plants by Russian nuclear companies and to coordinate the activities of Russian contractors as part of Rosatom's long-term international activities strategy. The company serves as a single point of contact integrating the service offer of all Rosatom companies.







The best practice consists in signing long-term service contracts for the entire life cycle of the power plant:

- Ability to provide long-term planning
- Bringing of service costs in line with revenues and maintenance of equipment
- Optimization of expenses for spare parts stock
- Use of the service company's experience in other facilities
- Reduction of costs in case of underutilization of own service departments

Organization of Support Services Hanhikivi NPP (Finland)

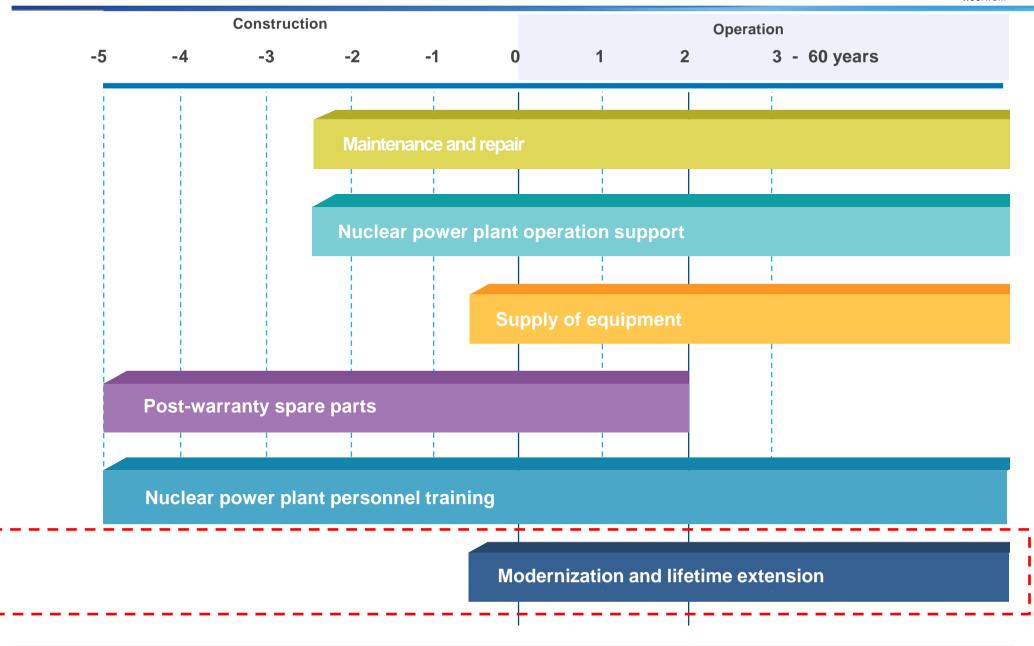
Coordination of the integrated service proposal within 5 years of the entry of the power unit into operation

Organization of Support Services Hanhikivi NPP (Finland)

Coordination of the integrated service proposal within 10 years of the entry of the power unit into operation according to the contract

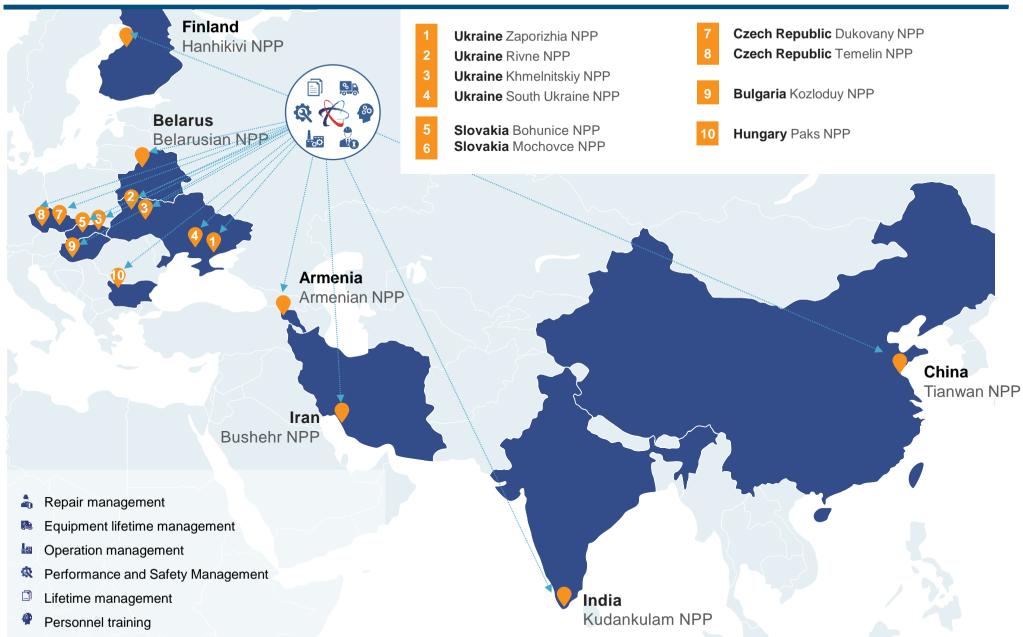






PROJECTS MAP





CUSTOMER EXPECTATIONS





«...we need to do this project quicker, because...»

«only best experts for our project...»

«...we don't have enough budget for this..»

«...we've never done LTE projects before and we don't have enough qualified personnel for this purpose.»

«...to develop optimal conditions for safety and performance in accordance with the last requirements of regulators and technology»

«...What is the fair price for this units?»

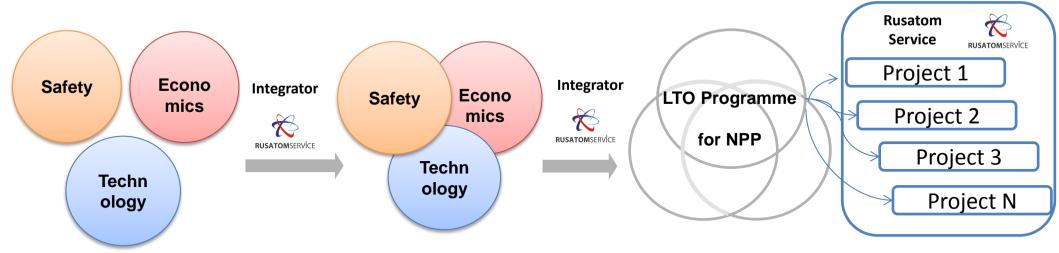
«...you take too much personnel for this project. Its overstaffed.»

«Who is responsible for the whole project?»

Customers expectations are: less time, less money, higher performance



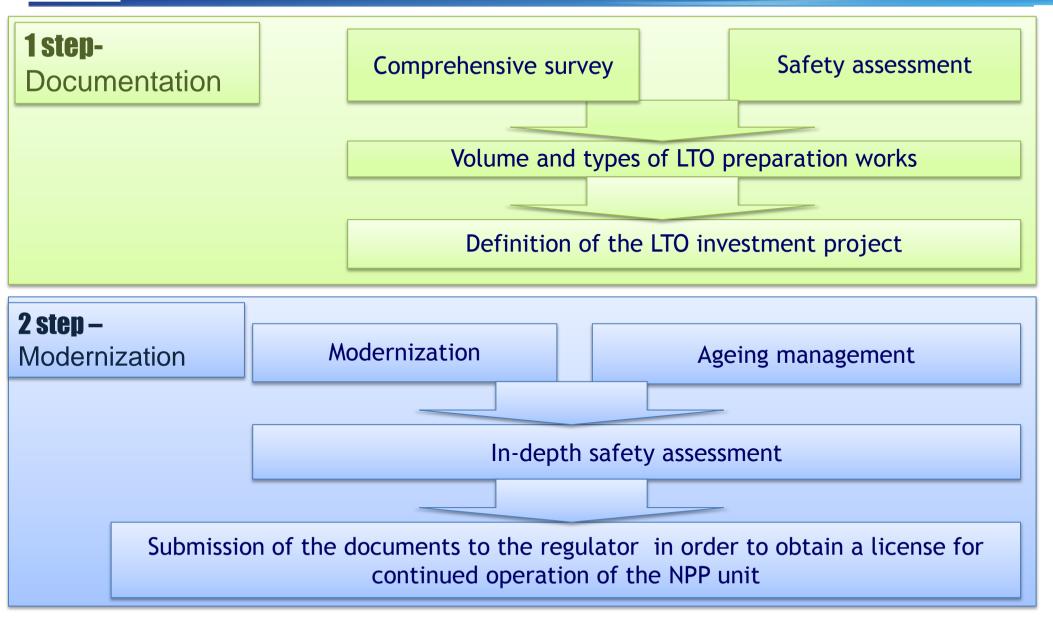




- Experienced team
- Structured and transparent procurement processes
- Strong links with manufacturers and business partners
- Knowledge base of products and innovations
- Price base for the equipment by suppliers

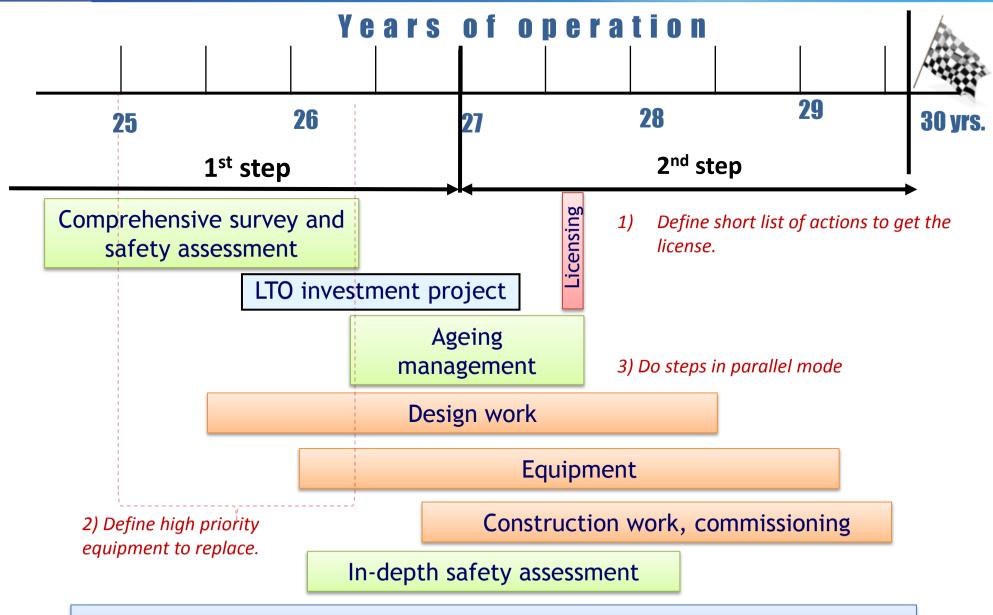










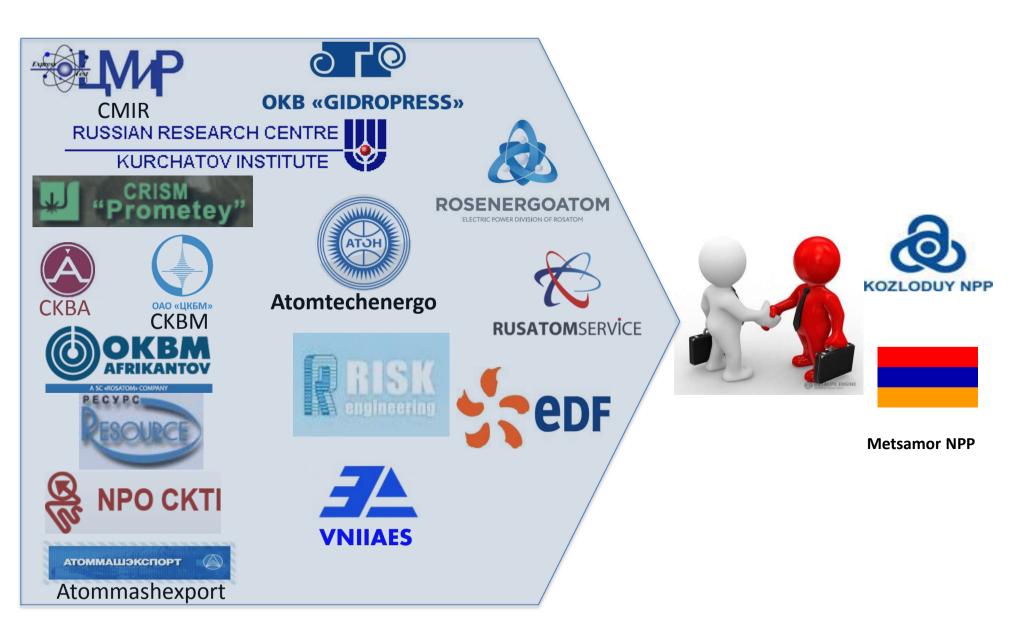


Practical approach is more complex and risky but it corresponds to customer expectations









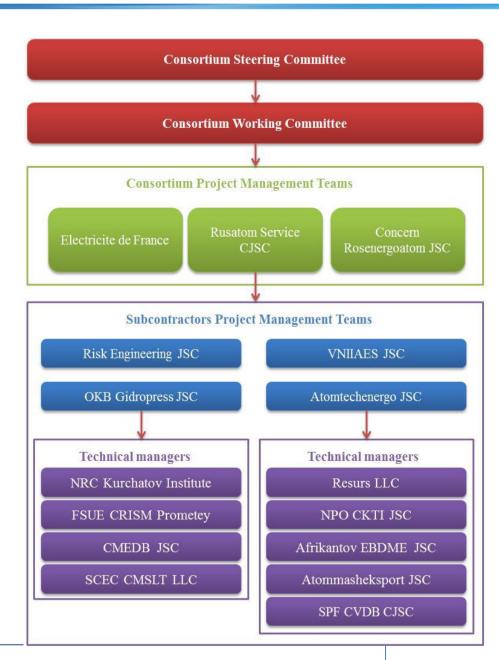




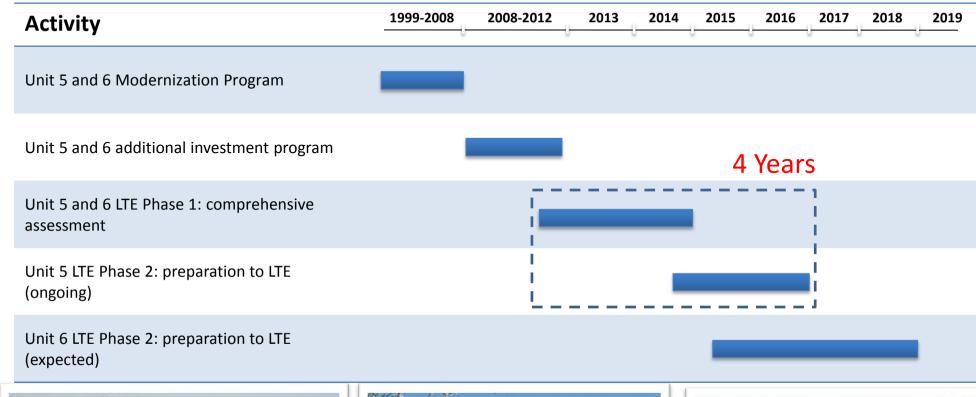




- Lifetime extension for Kozloduy NPP is performed by international Consortium Rusatom Service (leader of the Consortium) – Concern Rosenergoatom – EDF
- Consortium establishes elaborated project management structure with multiple layers of management:
 - Consortium Steering Committee;
 - Consortium Working Committee;
 - Project management teams of Consortium;
 - Project management teams of subcontracting organizations.







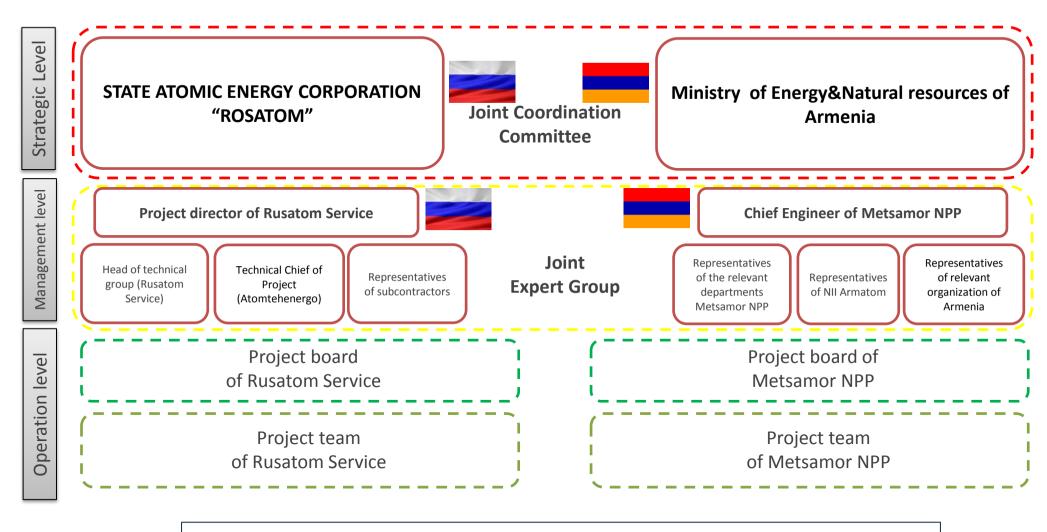








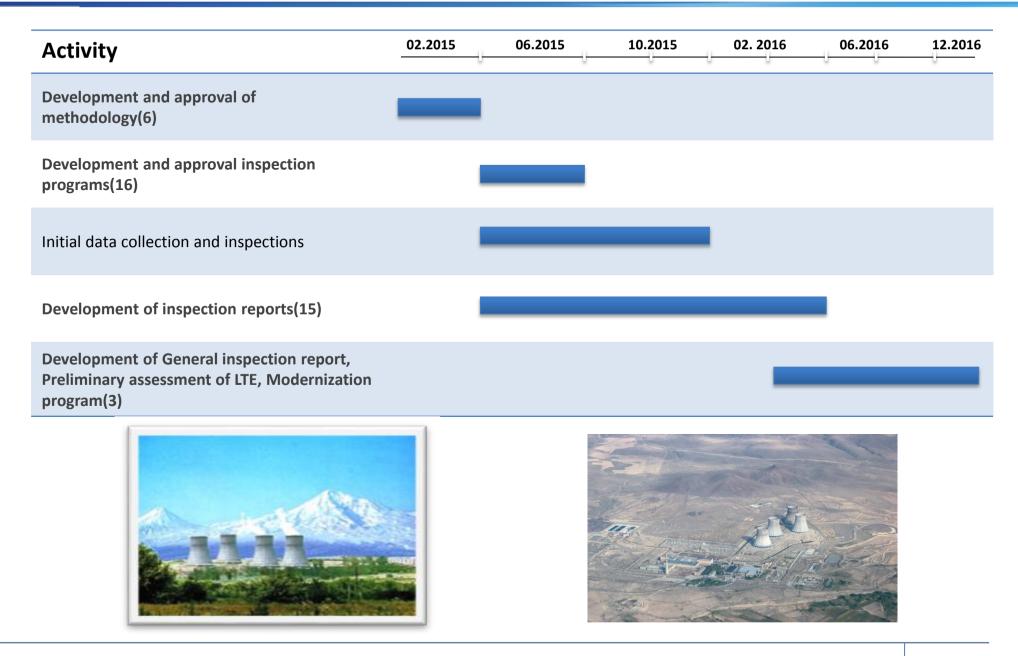




- STATE FINANCING OF THE PROJECT
- MANAGEMENT WITH THE PARTICIPATION OF THE MINISTRY OF ENERGY&NATURAL RESOURCES OF ARMENIA













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