

Opportunities for Participation in the International Supply Chain for the Construction and Maintenance of Nuclear Power Plants

Good Practices in Cooperation Between Slovenian Industry and Westinghouse



Good Practice Cases

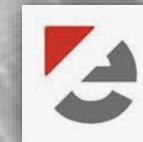
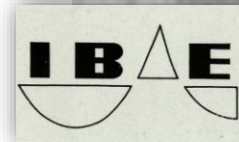
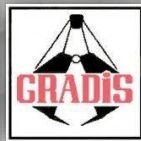


Construction of NEK

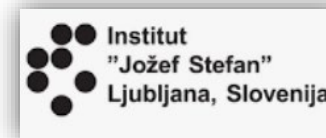
Westinghouse as general Contractor



Wide range of local Industry involved



Local Institutions and Specialists Involved



NEK Construction Results

Positive Results:

- Country
- Investor
- Community
- Contractor
- Industry
- Institutions
- Technical culture
- Science
- etc.
- Excellent reference
- Mitigate the situation (economy, energy, unemployment, ...)
- Positive impact on economy
- Fulfill the energy demand
- Successful construction and startup in short schedule
- Opportunity for industry
- Development (industry, institutions, knowledge...)
- Transfer of technical and safety standards, culture
- Incorporated local specifics and requirements
- Long term cooperation

NEK Operation Support



- Operation
- Maintenance
- Modifications
- Upgrades
- Safety upgrades
- Life extension
- Waste management
- etc.



- Collaboration - Operator, WEC, specialized local companies, institutions and specialists
- Mastering and control of technology by Operator and specialized partners
- Successful and safety operation for decades
- Specialized and certified reliable companies as supply chain of WEC for local and international services (Elmont, Numip, QTechna, Sipro,...)
- Local support to the Plant for some services
- Flexibility and responsiveness in case of necessary action at NEK
- Development and maintainment of specific knowledge, skills, experience and expertise
- Regulatory body an Operator expertise
- International influence and opportunities

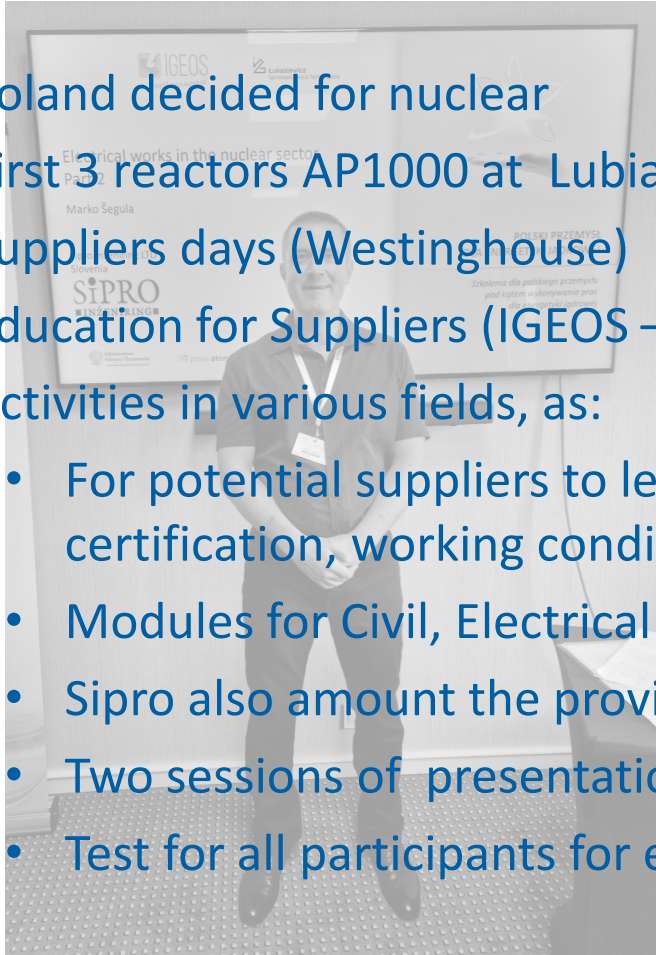
International Cooperation with WEC

- Outage support (Numip, Elmont, Q Techna – in USA...)
- Engineering and consulting support (Sipro – St Lucie, Susquehanna, Beznau...)
- Other technical services and opportunities (Inetec, Aposs, Enconet, ...)
- Newbuilds opportunities (Europe, ...)
- Enlarged supply change and WEC capabilities
- Transfer of knowledge, skills, experience and expertise to local environment and Plant (out and back to Slovenia)
- Redundancy of resources
- Flexibility of supply
- Future opportunities
- Already signed MoU between WEC and Sipro, Numip, Elmont for collaboration on NNP (newbuild) projects in CEE



Good practice from Poland

- Poland decided for nuclear
- First 3 reactors AP1000 at Lubiatowo-Kopalino (Contract with Westinghouse-Bechtel)
- Suppliers days (Westinghouse)
- Education for Suppliers (IGEOS – Polish Chamber of Energy Industry and Environmental Protection)
- Activities in various fields, as:
 - For potential suppliers to learn technical and safety requirements, standards, safety culture, certification, working conditions, ...
 - Modules for Civil, Electrical and Mechanical suppliers of services and components
 - Sipro also amount the providers of a part of education (on initiative of WEC)
 - Two sessions of presentations by one Sipro specialist (authors two Sipro specialists) at E-module
 - Test for all participants for each topic



Future (JEK2) opportunity

Much better starting points (as lessons learned) than 5 decades ago for the:

- Operator
- Regulator
- Contractor (WEC)
- Local suppliers with expertise, some already certified for NPP services (some also for SR – Elmont, Numip, QTechna, Sipro, CGP, Kostak, IBE,...)
- Slovenian educational system and institutions
- etc.

Some advantages:

- Familiar with the technology
- Familiar with technical and safety requirement
- Familiar with safety culture
- Familiar with codes and standards
- Already established institutions
- Good experience from last five decades
- etc.

Future (JEK2) opportunity

Believe that:

- Strong support to JEK2 project (state, operator, industry, public,...)
- All lessons learned and good practices of last 5 decades
- Good cooperation between Contractor, local suppliers and Investor
- Etc.

Could result another successful story - JEK2