



**ROSATOM**

STATE ATOMIC ENERGY CORPORATION ROSATOM

# International cooperation in nuclear power plant service maintenance



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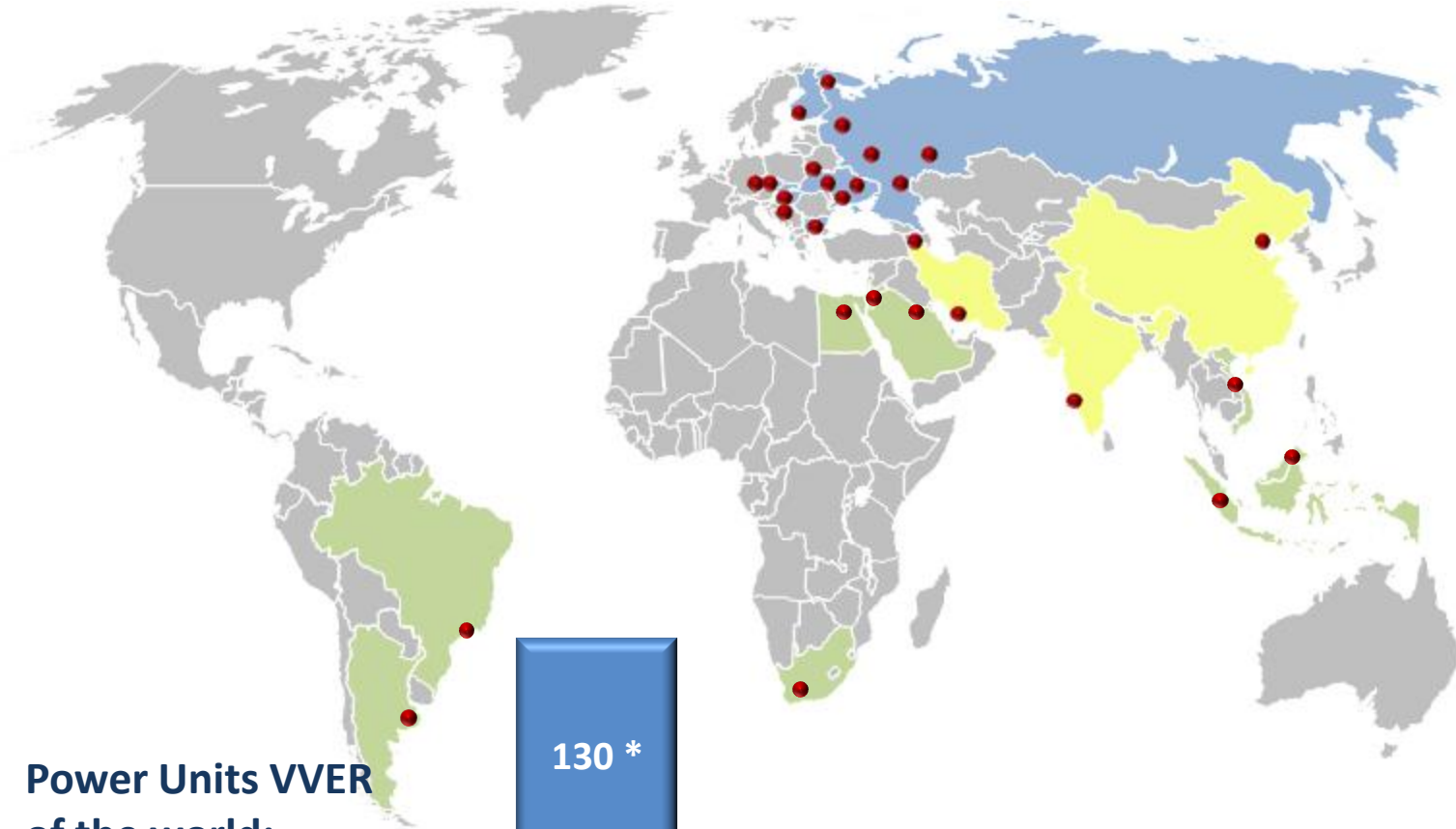
**M.R. Kontsev**  
**General Director**  
**JSC «RUSATOMSERVICE»**

**Prague, October 25, 2011**

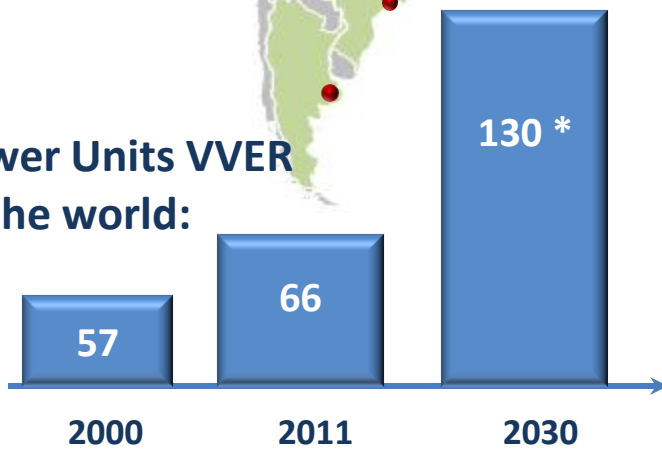


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## VVER MAP - 2030



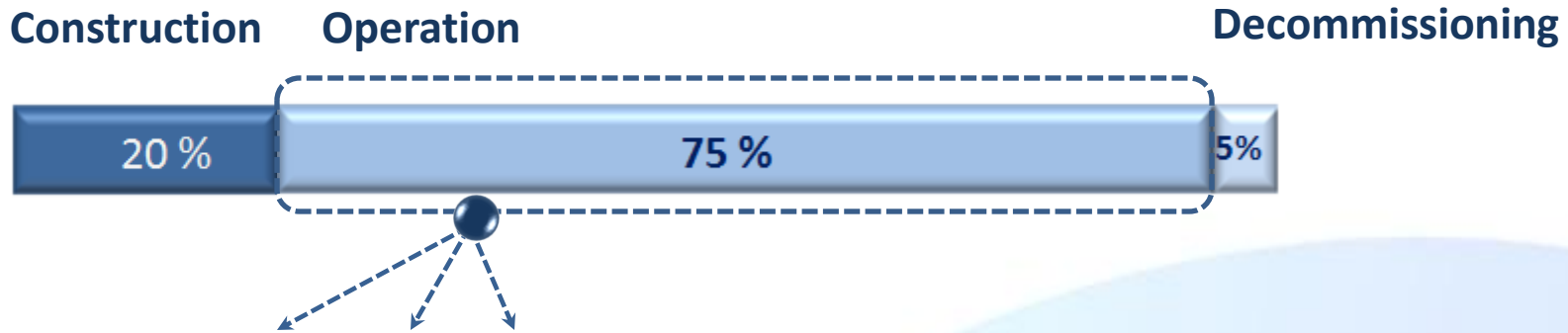
**Power Units VVER  
of the world:**



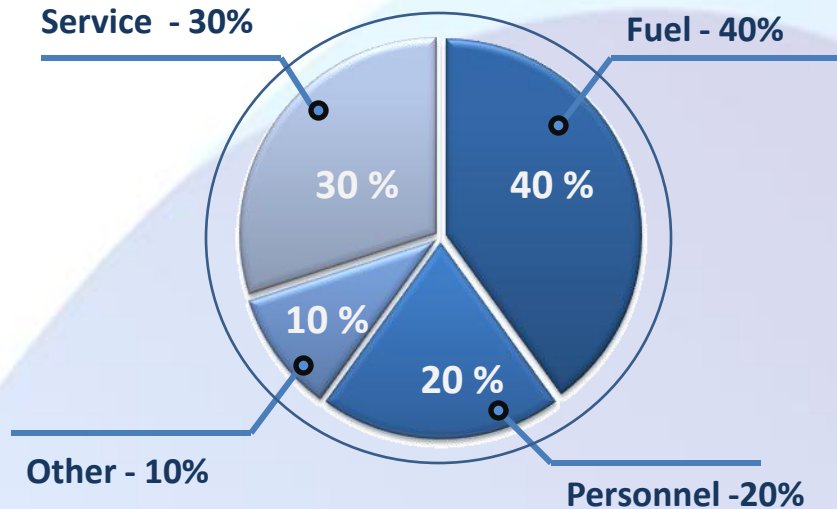
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\* According to SC "ROSATOM"

## Costs of all NPP VVER lifecycle



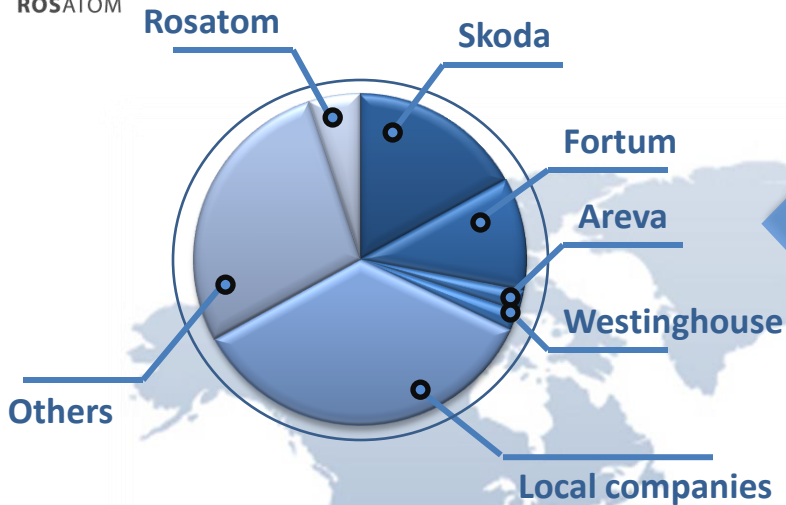
The annual costs of Nuclear Power Plants with VVER operation:





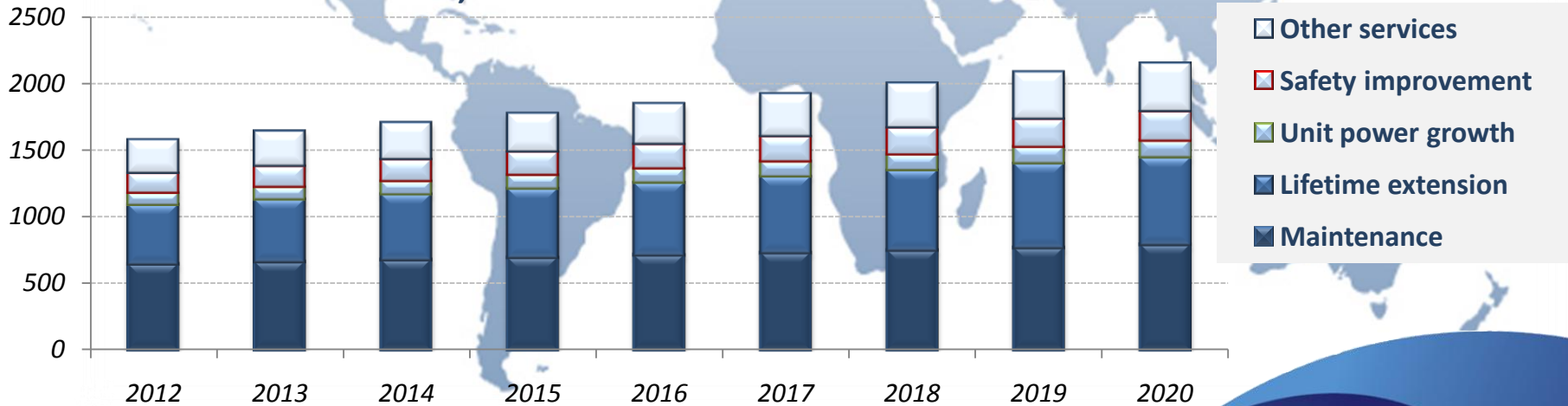
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# NPP VVER SERVICE MARKET SHARE



**NPP VVER CEE annual market size exceeds 1,4 billion €**

### Service market size, mil. €





Services in the field of operational and technological engineering (repair, modernization), training of specialists



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Guarantee and after-guarantee maintenance throughout the lifecycle

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R & D, optimization and modernization of NPP Units

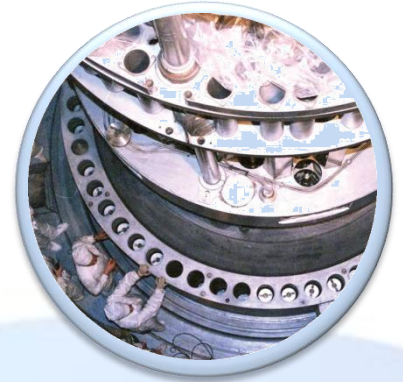


Services in the field of preoperational and adjustment activities, elaboration of documentation

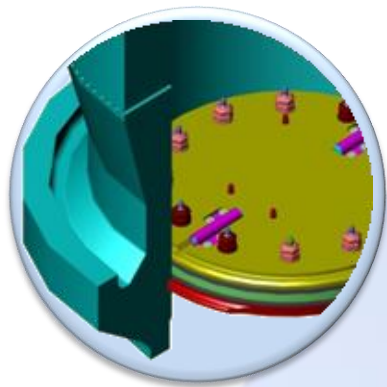


- **Creating a “Single Window” – joint service offers integrator for all companies of SC “ROSATOM”**
- **Centralization and systematization of promotion services for nuclear power plants by introducing complex service offer**
- **Russian innovations for nuclear power plant promotion to the international markets**
- **Improving the safety of nuclear power plant operation**

- **Modernization**
- **Lifetime extension**
- **Stress tests**
- **Traditional service**
- **Technical audit and consulting**
- **Organization of safety nuclear power plant operation information centers**



- **Steam generators modernization**
- **Repair interval increased up to 18 months**
- **Annealing of RP equipment welded joints and base metal to eliminate the manufacturing and operational defects**



- **Application of RP removable thermal insulation of multiple use**
- **Using shut-off device of steam generator primary circuit**

**And many more...**



- **Special training**
- **Skills improvement**
- **Full-scale simulator**
- **Internship at operating equipment**
- **Experience exchange**





## Engineering vendor



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## Local market

- **Staff**
- **Experience**
- **Customer relationship**
- **Local legislation acquirement and other local competences**

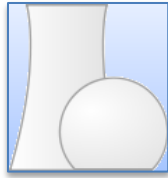


## Partner's advantages:

- Experience and competence across the Russian nuclear industry
- Quick response to the request
- Interests representing
- Costs optimization
- Knowledge of internal standards and tender procedures



Bulgaria



China



India



Armenia



Ukraine



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- Participation of local companies in complex service offer
- Using the best equipment
- Using the best service solutions



Czech Republic



Slovakia



Finland



United Kingdom



Bulgaria



Hungary



**RUSATOMSERVICE**

- **The single service integrator**
- **Russian innovations to the international market**
- **Complex service offers**
- **Staff training**
- **International cooperation**

**Thank you for attention!**

**Dekuji za pozornost!**

