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Technical Meeting on Fast Reactors and Related Fuel Cycle Facilities with Improved Economic Characteristics

11–13 Sep 2013

IAEA, Vienna,
Austria

The objectives of the meeting are:

- To identify the main issues and technical features that affect capital and energy production costs of fast reactors and related fuel cycle facilities
- To present fast reactor concepts and designs with enhanced economic characteristics, as well as innovative technical solutions (components, subsystems, etc.) that have the potential to reduce the capital costs of fast reactors and related fuel cycle facilities
- To present energy models and advanced tools for the cost assessment of innovative fast reactors and associated nuclear fuel cycles
- To discuss the results of studies and ongoing R&D activities that address cost reduction and the future economic competitiveness of fast reactors
- To identify research and technology development needs in the field, also in view of new IAEA initiatives to help and support Member States in improving the economic competitiveness of fast reactors and associated nuclear fuel cycles

Working Documents

- [Information Sheet and Call for Papers](#)
- [Agenda](#)
- [Meeting Report](#)

Presentations

Session I: Opening and Objectives of the Technical Meeting

- [Recent IAEA achievements in the field of fast reactors and presentation of the scope and objectives of the meeting](#)
S. Monti, IAEA

Session II: Economic Studies on Advanced Fuel Cycles

- [IAEA activities in the development of innovative nuclear technology – the role of INPRO](#)
Z. Drace, IAEA
- [Analytical framework for the analysis/assessment of transition scenarios to sustainable nuclear energy systems and its applications](#)
V. Kuznetsov, IAEA
- [INPRO Methodology in the Area of Economics](#)
A. Korinny, IAEA
- [Economics of the back-end of the nuclear fuel cycle](#)
A. Lokhov, OECD-NEA
- [Fast reactor fuel cycle cost estimates for advanced fuel cycle studies](#)
T.J. Harrison, Oak Ridge National Laboratory, USA

Session III: Economics Features of Advanced Fast Reactors

- [Economic issues of fast reactors in China](#)
H. Yang, CIAE, China
- [Cost survey to cost killing on fast reactor ASTRID](#)
D. Vernhet, CEA, France
- [Lead reactor strategy economical analysis](#)
M. Ciotti, ENEA, Italy
- [Korean SFR development program and technical activity for improving economical competitiveness](#)
J. Yoo, KAERI, Republic of Korea

Session IV: Very Innovative Fast Neutron Systems


- [Some neutronics of innovative subcritical assembly with fast neutron spectrum](#)
H. Kiyavitskaya, SOSNY, Belarus
- [High efficiency of mixed Th-U fuel utilization in innovative nuclear burning wave reactor](#)
S. Fomin, Akhiezer Institute for Theoretical Physics, Ukraine

Please contact [NENP Technology Development Section – Contact Point](#) if you have any questions.

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