

Technical Meeting on Synergies in Technology Development between Nuclear Fission and Fusion for Energy Production



Monday, 6 June 2022 - Friday, 10 June 2022

Vienna, Austria (virtual participation possible)

Scientific Programme

1. Status of fusion technology: needs and challenges

2. Scenario studies: nuclear fusion reactors as an element of future energy systems

3. Technology, safety, security and safeguardability for synergies and know-how transfer

3.01 Energy conversion systems

3.02 Structural materials and circulating fluids

3.03 Waste technology

3.04 Decommissioning by design

3.05 Fuel cycle

3.06 Detritiation technologies

3.07 Remote handling

3.08 Nuclear measurements

3.09 Nuclear data

3.10 Modelling and simulations

3.11 Design Safety, Safety Analysis and Regulation

3.12 Project management and management systems

3.13 Manufacturing and supply chain

3.14 Construction and commissioning

3.15 Operation and maintenance

3.16 Safeguards

4. Economic and market considerations

4.01 Economics of energy systems

4.02 Lessons learned from 70 years of nuclear fission reactors deployment

4.03 Economic and market considerations on nuclear fusion power plants

5. Human Resources and Knowledge management

5.01 Mapping human resources needs and identification of common professional competencies

5.02 Knowledge management strategies and techniques

6. Fission-fusion hybrid systems

7. General considerations on needed infrastructure

8. Stakeholder involvement

8.01 Start-ups

8.02 Public acceptance and support

9. Considerations and suggestions for future work in the field