Round Table Discussion 1
Three Pillars of NPT

Foods for Discussion

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### Three Pillars of NPT & Current Trend

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<th>Peaceful Use of Nuclear Energy</th>
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Challenges of Three Pillars of NPT

1. Need to ensure compatibility between peaceful use of nuclear energy and nuclear non-proliferation

2. Challenges inherent in NPT

3. Promotion of both nuclear disarmament and nuclear non-proliferation with the participation of all nuclear armed states
Promotion of nuclear energy *(Round Table 1)*

 Nuclear energy should be promoted worldwide

In this respect we have to address the following challenges

1. How do we support emerging nuclear states for their efforts to develop the infrastructure necessary for the introduction and expansion of nuclear power?
2. How do we attract young scientists and engineers into nuclear field?
3. How do we promote research and development of next-generation nuclear energy systems?
4. How do we promote international cooperation in the field of peaceful use of nuclear energy (bilateral or multilateral)?
5. How do we ensure compatibility between peaceful use of nuclear energy and nuclear non-proliferation?
1. Need to ensure compatibility between peaceful use of nuclear energy and nuclear non-proliferation

Compatibility between peaceful use of nuclear energy and nuclear non-proliferation

- Support to emerging nuclear states to ensure 3S (nuclear non-proliferation/Safeguards, Safety and Security) (Round Table 1)

- Enhancement of conventional nuclear non-proliferation measures
  - Safeguards (Round Table 2)
    - How do we promote universal adherence to Additional Protocol? (Round Table 1)

- Export Control of sensitive nuclear technology
  - Is criteria-based approach contemplated in the framework of Nuclear Suppliers Group effective?
  - What role should G8 play?
  - What role should nuclear industry play?
1. Need to ensure compatibility between peaceful use of nuclear energy and nuclear non-proliferation (continued)

- Enhancement of conventional nuclear non-proliferation measures
  - Nuclear Security (Round Table 2)
    - How do we ensure nuclear security both within nuclear facilities and during transportation
    - What role should World Institute for Nuclear Security (WINS) play?
  - New approach for bilateral nuclear cooperation agreement
    - Can US-UAE nuclear cooperation agreement serve as a model?
New measures

- Multilateralization of nuclear fuel cycle (Round Table 1 and 3)
- Proliferation resistant nuclear technology (Round Table 2)

- What do we expect proliferation resistant nuclear technology to address?
- How do we optimize the introduction of proliferation resistant nuclear technology and institutional measures of nuclear non-proliferation?
2. Challenges inherent in NPT

- Importance of overcoming the perception of inequality (Round Table 1)
- Need to address
  - Existing inequality inherent in NPT between nuclear-weapon States and non-nuclear-weapon States
  - Underlying inequality between states with nuclear fuel cycle technologies and states without such technologies
2. Challenges inherent in NPT

Withdrawal

**DPRK’s case:** Withdrawal from NPT

**Issue:** It is not illegal for a state Party to acquire nuclear technology while a Party to NPT, and then to withdraw from it and divert such technology for nuclear weapon purpose

**Challenge:** How do we prevent future withdrawal without resorting to the amendment of NPT?

Compliance and Enforcement

**Iran’s case:** Violation of safeguards agreement

**Issue:** Failure to address the cases of non-compliance such as the cases of DPRK and Iran, might undermine the credibility of NPT.

**Challenge:** How does international community address the cases of non-compliance?
3. Promotion of both nuclear disarmament and nuclear non-proliferation with the participation of all nuclear armed states

- Significance of the clear progress of nuclear disarmament on nuclear armed states in terms of encouraging the acceptance of strengthened measures for nuclear non-proliferation on non-nuclear weapon states
  - How do we obtain the progress on the following fronts?
    - START Follow-on Treaty
    - CTBT and FMCT
  - Is experience in safeguards applicable to verification of disarmament?
3. Promotion of both nuclear disarmament and nuclear non-proliferation with the participation of all nuclear armed states

- How do we integrate non-NPT states in the global regime of nuclear non-proliferation and nuclear disarmament?
  - Nuclear disarmament including states other than Russia and U.S.

- How do we evaluate nuclear cooperation with non-NPT States? (Round Table 1)
Six Specific issues to be discussed in Round Table 1

1. How do we sustain the promotion of nuclear energy and address challenges for the promotion?

2. How do we support emerging nuclear states securing the 3S?

3. How effective is multilateralization of nuclear fuel cycle from the perspective of nuclear non-proliferation?

4. How do we promote universal adherence to Additional Protocol?

5. How do we overcome the perception of inequality in NPT regime?

6. How do we evaluate nuclear cooperation with non-NPT States?
Specific issues to be discussed in Round Table 1

1. How do we sustain the promotion of nuclear energy and address challenges?

- How do we support emerging nuclear states for their efforts to develop the infrastructure necessary for the introduction and expansion of nuclear power?
- How do we attract young scientists and engineers into nuclear field?
- How do we promote research and development of next-generation nuclear energy systems?
- How do we promote international cooperation in the field of peaceful use of nuclear energy (bilateral or multilateral)?
Specific issues to be discussed in Round Table 1

2. How do we support emerging nuclear states securing the 3S?

- Responsibility of advanced nuclear states to offer cooperation for the development of infrastructure to ensure 3S
- Responsibility of emerging nuclear states as they introduce nuclear power
- IAEA’s role in this respect
Specific issues to be discussed in Round Table 1

3. How effective is multilateralization of nuclear fuel cycle from the perspective of nuclear non-proliferation?

- How effective is the fuel supply assurance from the viewpoint of nuclear non-proliferation?
- How do we overcome the perception that fuel supply assurance will restrict the inalienable right of peaceful use of nuclear energy?
- Couldn’t multilateral scheme addressing backend of nuclear fuel cycle be more effective from the viewpoint of nuclear non-proliferation?
4. How do we promote universal adherence to Additional Protocol?

- Approach to make an adherence to AP a condition of nuclear cooperation through NSG guidelines and bilateral nuclear cooperation agreements
- International outreach and cooperation for the infrastructure development necessary for the ratification of AP
- Progress on the other side of the bargain (Disarmament)
Specific issues to be discussed in Round Table 1

5. How do we overcome the perception of inequality in NPT regime?

- Existing inequality inherent in NPT between nuclear-weapon States and non-nuclear-weapon States
  
  How does the progress on disarmament alleviate the perception of inequality of non-nuclear weapon states?

  Can multilateralization of nuclear fuel cycle including the facilities in nuclear armed states alleviate the perception on non-nuclear weapon states of the discriminatory nature of NPT

- Underlying inequality between states with nuclear fuel cycle technologies and states without such technologies
  
  Approach to set the nuclear non-proliferation norm required for the states with nuclear fuel cycle
Specific issues to be discussed in Round Table 1

6. **How do we evaluate nuclear cooperation with non-NPT States?**

- Is nuclear cooperation deal with non-NPT states either a challenge or a solution?
- What specific measures should be taken to integrate non-NPT states further into the international nuclear non-proliferation and disarmament regime?