

Day 4: 9th October 2026	
Module 4: SMR Technology Applications and Integration	
	<p>Speakers: IAEA expert 1 – IAEA IAEA expert 2 – IAEA or MIT expert – MIT</p> <p>Location: KX Building, Bangkok</p>
9:00 - 9:10	– Pre-test (10 min)
9:10 - 10:40	<p>Session 1: Technology Applications</p> <p>– SMR Core Design and Fuel Cycle Fundamentals: Core design principles, fuel types, burnup characteristics, fuel management, and refueling strategies (90 min)</p>
10:40 - 10:55	Coffee break
10:55 - 12:00	– Modular Deployment and Operational Features: Factory fabrication, transportability, scalability, and load-following capabilities (65 min)
12:00 - 13:00	Lunch
13:00 - 14:00	<p>Session 2: Technology Integrations</p> <p>– Integration with Industrial Energy Systems: Coupling SMRs with industrial facilities for process heat and cogeneration (60 min)</p>
14:00 - 15:00	<p>– SMRs for Hydrogen Production: Technical interfaces and integration with hydrogen production systems (30 min)</p> <p>– Hybrid Energy Systems and Grid Interaction: Integration with renewables, energy storage, and flexible multi-energy systems (30 min)</p>
15:00 - 15:15	Coffee break
15:15 - 16:45	– Backend Fuel Cycle and Spent Fuel Management: Storage, transportation, and lifecycle management of spent nuclear fuel (90 min)
16:45 - 17:00	– Post-test (15 min)