



INPRO Dialogue Forum 8. Toward Nuclear Energy System Sustainability: Economics, Resource Availability, and Institutional Arrangements

*Vienna International Centre (VIC), IAEA Headquarters, Vienna,
AUSTRIA, 26th – 29th August, 2014. IAEA Room M3, Building M*

DRAFT AGENDA – PLENARY (Room M3)

Time	Date / Topic	Participant(s)
Tuesday, 26th August		
08:00 – 09:00	<i>Access to the VIC. Seating of delegates</i>	<i>All</i>
09:00 – 09:15	Opening Remarks	DDG-NE
09:15 – 09:25	Program Overview and Objectives	Chairman
09:25 – 09:50	Overview of INPRO Project	Zoran Drace
09:50 – 10:15	Overview of INPRO Task 3 and Revision of INPRO Methodology	Jon R. Phillips (IAEA)
10:15 – 10:40	Presentation on INPRO Economics Update	Andriy Korinny (IAEA)
<i>Group photo and Break</i>		
11:10 – 11:35	Presentation on Economics	David Shropshire (IAEA)
11:35 – 12:00	Economic Assessment of Nuclear Power Plant Production using INPRO Methodology – Part 1	Sumio Fujii (Mitsubishi, Japan)
12:00 – 12:25	Economic Assessment of Nuclear Power Plant Production using INPRO Methodology – Part 2	Sumio Fujii (Mitsubishi, Japan)
<i>Lunch</i>		
14:00 – 14:25	Sustainability Assessment of NES in Thailand using INPRO Methodology in the Area of Economics	Kampanart Silva (Thailand)
14:25 – 14:50	Economic Assessment of a NPP Project: Viet Nam's Practices and INPRO Methodology	Le Doan Phac (Viet Nam)
14:50 – 15:15	Implementation of the NPRO Economy Indicators to Assess Nuclear Competitiveness - Argentina's Experience	Norberto R. Coppari (Argentina)
15:15 – 15:40	Nuclear Economics in Finland	Riitta Ståhl (Finland)
<i>Break</i>		

16:10 – 16:35	A Model Case of Economic Assessment	Liulin (CIAE, China)
16:35 – 17:00	Points About Improving Cost Competitiveness of Modular HTGR Power Plants	Yujie Dong (INET, China)
17:00 – 17:25	Presentation on Economics by GIF EMWG	T.J.Harrison (GIF) / D.Shropshire (IAEA)
17:25	Adjourn / Welcome reception	All
Wednesday 27th August		
09:00 – 09:25	Presentation on INPRO Resource Availability	Vladimir Kuznetsov (IAEA)
09:25 – 09:50	Assessing Uranium Resources Availability to 2060	Harikrishnan Tulsidas (IAEA)
09:50 – 10:15	Fuelling the Future? A Model of Long-Run Uranium Extraction Cost Dynamics	Paul Warren (IAEA)
10:15 – 10:40	Presentation on Resource Availability	Robert Vance (OECD)
<i>Break</i>		
11:10 – 11:35	Nuclear Fuel Resource Demand and Supply – Part 1	Brent Dixon (USA)
11:35 – 12:00	Nuclear Fuel Resource Demand and Supply – Part 2	Brent Dixon (USA)
12:00 – 12:25	Presentation on Resource Availability	Angelo Beati, Franck Lignini (AREVA, France)
<i>Lunch</i>		
14:00 – 14:25	Resource Availability in Kazakhstan	O. Gorbatenko (Kazatomprom)
14:25 – 14:50	Presentation on INPRO Infrastructure	Jon R. Phillips (IAEA)
14:50 – 15:15	Infrastructure / National participation	Matthew Van Sickle (IAEA)
15:15 – 15:45	Safety Infrastructure for Nuclear Power Programme	Jean-Rene Jubin (IAEA)
<i>Break</i>		
16:10 – 16:35	Practical aspects of achieving sustainability: human resources and training system for an NES	Alexey Kazennov (Russian Federation)

16:35 – 17:00	Institutional Arrangements	Franck Lignini (AREVA, France)
17:00 – 17:25	Technology Development of ACP100, User Requirements of INPRO Experience	Danrong Song (NPIC, China)
17:25	Adjourn	
Thursday 28th August		
09:00 – 09:25	Nuclear Infrastructure in Korea	Hee Yong Lee (KEPCO, Korea)
09:25 – 09:50	Human Resources for Innovative Nuclear Energy System	Vladimir Artisiuk (Russian Federation)
09:50 – 10:15	Implications of a Fast Nuclear Phase-Out: The German Example	Juergen F. Hake, Juergen Kupitz (Germany)
10:15 – 10:40	Nuclear Power Economics in Korea	Yong Euk Lee (KEPCO EC, Korea)
<i>Break</i>		
11:10 – 12:25	<i>Breakout Sessions</i>	<i>All</i>
<i>Lunch</i>		
14:00 – 17:25	<i>Breakout Sessions</i>	<i>All</i>
17:25	Adjourn	
Friday 29th August		
09:00 – 10:40	<i>Breakout Sessions</i>	<i>All</i>
<i>Break</i>		
11:10 – 12:00	Group Presentations and Discussion	Group Leaders
12:00 – 12:15	Summary	Chairman
12:15 – 12:25	Closing Remarks	DDG-NE
12:25	Adjourn	

BREAKOUT SESSION I: ECONOMICS (Room M0E03)

Time	Date / Topic	Participant(s)
Thursday, 28th August		
11:10 – 11:25	Overview	Group Leader
11:25 – 11:40	Economic Indicators Assessment of NPP Project in Indonesia	Suparman (Indonesia)
11:40 – 11:55	Sustainability of Nuclear Energy System in Romania, Taking into Account the Area of the Economics	Alice Mariana Dima (Romania)
11:55 – 12:10		Boris Popov (Belarus)
12:10 – 12:25	Economics Aspects for Integration of New Generation Units in the Chilean Electrical Market	Jerson Reyes (Chile)
<i>Lunch</i>		
14:00 – 14:15	Thailand Power Development Plan 2010-2030	Tanongsak Wongla (Thailand)
14:15 – 14:30	Proposal to Apply INPRO Methodology – Economics, for the Case of Mexico	Federico Puente Espel (Mexico)
14:30 – 14:45	Algerian Energy Planning According to INPRO Methodology	Rabah Benabih (Algeria)
14:45 – 15:00		Talal Abou El Maaty (Egypt)
15:00 – 15:15	Improve Economy of Fuel Handling System	S. Raghupathy (IGCAR, India)
15:15 – 15:30	Comparison of Electricity Generation Cost of NPP with Alternates in Pakistan	M. Saleemullah (Pakistan)
15:30 – 15:40	Statement on Economics	G.Ponomarenko (Russian Federation)
15:40 – 15:45	Statement on Economics	M.S.S.Chowdury (Bangladesh)
<i>Break</i>		
16:15 – 16:30	Approaches to Assess Competitiveness of Small and Medium Sized Reactors (SMRs)	A.Antony (BARC, India)
16:30 – 16:45	Lead Fast Reactors Sustainability	Marco Ciotti (Italy), S.Valeca (Romania)
16:45 – 17:25	Group Discussion	<i>All</i>
17:25	<i>Adjourn</i>	
Friday, 29th August		
09:00 – 10:40	Preparation of Summary of Discussion	<i>All</i>
<i>Break</i>		

BREAKOUT SESSION II: RESOURCE AVAILABILITY (Room M0E05)

Time	Date / Topic	Participant(s)
Thursday, 28th August		
11:10 – 11:25	Overview	Group Leader
11:25 – 11:45	Resources Availability for Nuclear Energy System of Ukraine	Leonid Benkovskiy (Ukraine)
11:45 – 12:05	Uranium Resource Availability Assessment for Niger's Nuclear Energy System by INPRO Methodology	Takoubakoye Djibo Daouda (Niger)
12:05 – 12:25	INPRO Environment Sustainability	Samo Furst (Slovenia)
<i>Lunch</i>		
14:00 – 14:15	Sustainability of Nuclear Energy System in Romania - View on the Resources Availability Aspects considering the INPRO Methodology Approach	Cristina Alice Margeanu (Romania)
14:15 – 14:30	Uranium Exploration in Uganda	Thomas Ocilaje (Uganda)
14:15 – 14:30	Statements from meeting participants	A.A. Ali Al-Shami (Yemen) Ricardo Fuentes (Chile) He Hui (China) Niane Cheikh (Senegal)
14:15 – 15:45	Group Discussion	<i>All</i>
<i>Break</i>		
16:15 – 17:25	Group Discussion	<i>All</i>
17:25	<i>Adjourn</i>	
Friday, 29th August		
09:00 – 10:40	Preparation of Summary of Discussion	<i>All</i>
<i>Break</i>		

BREAKOUT SESSION III: INSTITUTIONAL ARRANGEMENTS (Room M0E100)

Time	Date / Topic	Participant(s)
Thursday, 28th August		
11:10 – 11:25	Overview	Group Leader
11:25 – 11:35	Activities of TSO In Infrastructure Support For NES Development in Newcomer Country – Case for Malaysian Nuclear Agency	Mohd Ashhar Hj Khalid (Malaysia)
11:35 – 11:45	Assessment of Ukrainian Nuclear Energy System by INPRO Methodology (Infrastructure)	Konstantin Kochkin (Ukraine)
11:45 – 11:55	Infrastructure Review	Tumiran (Indonesia)
11:55 – 12:05	Challenges in Maintaining Nuclear Capabilities in a Free Market Economy and Delayed Projects Environment	Adrian Rizea (Romania)
12:05 – 12:15	Infrastructure for Nuclear Power Plants (NPPs) in Israel	Ilan Yaar (Israel)
12:15 – 12:25	Infrastructure in Bangladesh	Md Monirul Islam (Bangladesh)
<i>Lunch</i>		
14:00 – 14:10	Overview of High Temperature Gas-Cooled Reactors Technology and the Impact on Infrastructure Requirements	Frederik Reitsma (IAEA)
14:10 – 14:20	Infrastructure of SMR	M. Hadid Subki (IAEA)
14:20 – 14:30	Human Resources for Supporting of National Nuclear Program	Pavlin Petkov Groudev (Bulgaria)
14:30 – 14:40	Human Resource Development in a Nuclear Power Program for Newcomers	Lenard Ong'onge (Kenya)
14:40 – 14:50	Assessment of Different Types of Nuclear Energy Systems and Infrastructure Needs	Jeetesh Keshaw (South Africa)
14:50 – 15:00	Infrastructure Development of Moroccan NPP Project	Rachid Alaoui Sekkouri (Morocco)
15:00 – 15:10	National Energy Plan of Georgia	Margalita Arabidze (Georgia)
15:10 – 15:20	Current status of Nuclear Program in Albania	Milo Kuneshka (Albania)
15:20 – 15:30	Current Status of Nuclear Power Program in Cambodia	Soeung Vandoeun (Cambodia)

15:30 – 15:40	Presentation on Infrastructure in Viet Nam	Nguyen Viet Hung (Vietnam)
<i>Break</i>		
16:15 – 16:25	Implementation of the INPRO Infrastructure Indicators to Assess Nuclear Competitiveness – Argentine Experience	Valeria Cañadas (Argentina)
16:25 – 16:35	An Overview of Nigeria’s Nuclear Energy Programme in the INPRO Methodology Area of Infrastructure	Francis Ibitoye (Nigeria)
16:35 – 16:45	Building Human Resources for Nuclear Program: The Syrian Experiences	Othman Ibrahim (Syria)
16:45 – 16:55	Infrastructure for the Nuclear Power Program in Ghana	I.J. Kwame Aboh (Ghana)
16:55 – 17:05	Statements from meeting participants	Musbah Alhengari (Libya) Adnan Kaid Al-Harazi (Yemen) Emmanuel Wamala (Uganda) E. Gaafar Elhadi (Sudan)
17:05 – 17:25	Group Discussion	All
17:25	<i>Adjourn</i>	
Friday, 29th August		
09:00 – 10:40	Preparation of Summary of Discussion	<i>All</i>
<i>Break</i>		