

On-line Training of SAARC Professionals on Power Purchase Agreements of Renewable Energy Projects

8th-12th November, 2021

Training Schedule

Day/Date	Time (Pakistan Standard Time)	Title & Speaker	Description
Inauguration & Technical Session 01: Introduction to Power Purchase Agreements of Renewable Energy Projects (RPPAs)			
Day 1 (Monday) Nov 08, 2021	2:00 PM - 2:15 PM	Inauguration of the Training program	<ul style="list-style-type: none"> Inaugural Address by Dr. Nawaz Ahmad, Director, SAARC Energy Centre-Islamabad (Tentative) Address by Prof. Arun Kumar, HRED, IIT Roorkee
	2:15 PM - 2:25 PM	Overview of the Training Program by Moderator Mr. Muhammad Ali Qureshi (Program Coordinator- SAARC Energy Centre)	<ul style="list-style-type: none"> Structure of the training program Introduction of the trainers Any questions from the participants about the training will be answered
	2:25 PM - 3:25 PM	Slot 1: Review and importance of competitive power markets in SAARC Region in increasing RE scenarios by Prof. Rhythm Singh, HRED, IIT Roorkee, India	<ul style="list-style-type: none"> Historical development and status of competitive power markets in the SAARC Region Importance and the requirements for establishing quality competitive power markets in increasingly RE-dominated scenarios
	3:25 PM - 3:40 PM	Break	
	3:40 PM - 4:40 PM	Slot 2: Different models of RPPAs and strategies for the design and regulation by Prof. Himanshu Jain, HRED, IIT Roorkee, India	<ul style="list-style-type: none"> Introduction to RPPAs and the various models, including: 1) RPPA for Feed-in tariff/preferential tariff, 2) RPPA for Tariff based competitive bidding by DISCOM or open access consumer/ wheeling, 3) RPPA for Cross-Border trading of electricity, 4). RPPA for hybrid renewable energy plants. Introduction to strategies for the design and regulation of RPPAs
	4:40 PM - 4:55 PM	Q&A Session & Evaluation	<ul style="list-style-type: none"> Q&A Session MCQ based on-line quiz on the content covered



Technical Session 02: Executional aspects and risks associated with RPPAs			
Day 2 (Tuesday) Nov 09, 2021	2:00 PM - 2:55 PM	Slot 1: Mechanisms for analyzing and negotiating RPPAs by Prof. Anand Kumar, HRED, IIT Roorkee, India	<ul style="list-style-type: none"> Frameworks and mechanisms for analyzing and negotiating RPPAs, including: Market price floor, Capacity buy down, Assignment rights, Seller's security, Availability guarantee, Production guarantee, Seasonal guarantees, Fixed volume settings, etc.
	2:55 PM - 3:10 PM	Break	
	3:10 PM - 4:25 PM	Slot 2: Risk assessment and mitigation techniques for Renewable Energy Projects by Dr. Rakesh Kumar Goyal, Tetra Tech, India	<ul style="list-style-type: none"> Risk assessment strategies for long-term viability of RE projects Mitigation strategies for risks associated with RE projects including: Proxy generation, Volume firming, Hedging instruments
	4:25 PM - 4:40 PM	Q&A Session & Evaluation	<ul style="list-style-type: none"> Q&A Session MCQ based on-line quiz on the content covered
Technical Session 03: Financing and stakeholder management of RPPAs			
Day 3 (Wednesday) Nov 10, 2021	2:00 PM - 2:55 PM	Slot 1: RPPA's financing structures and bankability requirements for RE Projects by Prof. Anand Kumar, HRED, IIT Roorkee, India	<ul style="list-style-type: none"> Financing structures for RPPAs Bankability requirements for RE projects Strategies for enhancing the bankability of RE projects
	2:55 PM - 3:10 PM	Break	
	3:10 PM - 4:25 PM	Slot 2: Roles and Obligations of parties in RPPAs and dispute settlement mechanisms by Dr. Ram Prasad Dhital, Electricity Regulatory Commission of Nepal, Nepal	<ul style="list-style-type: none"> Roles and responsibilities of stakeholders in RPPAs Legal design and provision of RPPAs (explanation of different articles of RPPAs) Grievance/ dispute settlement mechanisms for RPPA frameworks
	4:25 PM - 4:40 PM	Q&A Session & Evaluation	<ul style="list-style-type: none"> Q&A Session MCQ based on-line quiz on the content covered



Technical Session 04: O&M and lifecycle aspects of RPPAs			
Day 4 (Thursday) Nov 11, 2021	2:00 PM - 2:55 PM	Slot 1: Operations, Maintenance, and Decommissioning provisions in RPPAs by Mr. Vivek Mishra, Meghraj Capital Advisors Private Limited (MCAPL), India	<ul style="list-style-type: none"> Operations, Maintenance, and Decommissioning provisions in RPPAs Lifecycle aspects of RPPAs Provisions for force majeure during operation, owner ship of assets after expiry of PPA and transfer price for assets
	2:55 PM - 3:10 PM	Break	
	3:10 PM - 4:25 PM	Slot 2: Case Studies of regional and international competitive markets based RPPA models by Ms. Arai Monteforte, Tetra Tech, USA	<ul style="list-style-type: none"> Case studies of regional and international competitive markets where RPPA models have been successfully implemented
	4:25 PM - 4:40 PM	Q&A Session & Evaluation	<ul style="list-style-type: none"> Q&A Session MCQ based on-line quiz on the content covered
Closing & Technical Session 05: Mock regulatory session and Panel Discussion			
Day 5 Nov 12, 2021	2:00 PM - 3:15 PM	Slot 1: Mock Regulatory Session by Prof. Anand Kumar, Mr. Vivek Mishra, Dr. Ram Prasad Dhital, Dr. Rakesh Kumar Goyal, Prof. Himanshu Jain and Prof. Rhythm Singh	<ul style="list-style-type: none"> The objective of this session will be to conduct mock regulatory proceedings, where the questions and processes that regulatory bodies in SAARC Member States may follow while evaluating the RPPAs will be emulated
	3:15 PM - 3:30 PM	Break	
	3:30 PM - 4:30 PM	Slot 2: Panel Discussion on competitive markets and RPPA models implemented in SAARC Member States	<p>Panelists:</p> <ul style="list-style-type: none"> Sri Anand Kumar (Hydro and Renewable Energy Dept, IIT- Roorkee, India) Muhammad Faisal Sharif (Director-Projects Appraisal, PPIB-MoE, Pakistan) Dr. Rakesh Kumar Goyal (Vice President, Tetra Tech, India) Dr. Ram Prasad Dhital (Member, Electricity Regulatory Commission, Nepal) Mr. Rajesh Mediratta (Director- Strategy, Indian Energy Exchange) Prof. Arun Kumar (Hydro and Renewable Energy Dept, IIT- Roorkee, India)
	4:30 PM - 4:45 PM	Participants Feedback	<ul style="list-style-type: none"> Trainees' feedback on the entire training program
	4:45 PM - 4:50 PM	Valedictory session	<ul style="list-style-type: none"> Closing remarks by Dr. Nawaz Ahmad, Director, SAARC Energy Centre-Islamabad

Information for Participants:

All times mentioned in agenda are according to Pakistan Standard Time (PKT). The participants from other Member States will attend training by following their own national time. The time conversion for all Member States is given below for reference:

Country	Afghanistan	Bangladesh	Bhutan	India	Maldives	Nepal	Sri Lanka
Local Time	(PKT-00:30)	(PKT+01:00)	(PKT+01:00)	(PKT+00:30)	PKT	(PKT+00:45)	(PKT+00:30)

For more information, please contact the following SEC professional:

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