



SAARC Energy Center, Islamabad

On-line Training of Stakeholders on Digitizing Industrial Motor Systems for Energy Efficiency

December 6 – 10, 2021

Timetable for online training

Day	Time (Pakistan Standard Time)	Titles and Speakers		Description
Session 01: Inauguration & Efficient motor systems approach				
Day-1, Dec-6,	2:00 – 2:05 PM	Welcome and Introduction <i>by Tula Ram Poudel, Research Fellow (Energy Trade), SEC</i>		
	2:05-2:15 PM	Inaugural address by Director SAARC Energy Centre		
	2:15 – 2:25 PM	Overview of training program By <i>Mr. Hu Bo, Top10 China</i>		
	2:25 – 3:10 PM	Slot 1: Overview of motor system energy efficiency improvement By <i>Mr. Conard. U. Brunner, CUB, Switzerland</i>	<ul style="list-style-type: none">Motor system energy saving potential overviewMotor and motor system standardization	
	3:10 – 3:30 PM	Q&A session and Break		
	3:30 – 5:00 PM	Slot-2: Motor Systems efficiency and check with model tools By <i>Mr. Rolf Tieben, Impact Energy, Germany and Mrs. Rita Werle, Impact Energy, Hungary</i>	<ul style="list-style-type: none">Motor system energy conservation projects management in factoriesAssess factory motor saving potential with SOTEA toolManage factory motor systems with ILI+ ToolCalculate motor system efficiency with motor system tool	
	4:50 – 5:00 PM	Q & A Session and day’s wrap up		
Session 02: Digital pump system and smart solutions				
Day-2 Dec-7	2:00 – 3:15 PM	Slot-1: Pump system with pump demonstrator By <i>Mr. Hu Bo, Top10, China</i>	<ul style="list-style-type: none">Conduct remote digital live training via pump demonstrator training facilityPump system operation and energy saving cases with pump demonstrator	
	3:15 – 3:30 PM	Q&A session and Break		
	3:30 – 4:50 PM	Slot 2: ABB Ability Industrial Internet of Things (IoT) for smart motors and digital powertrain By <i>Mr. Teijo Karna, Product manager, ABB motion Service division, Finland</i>	<ul style="list-style-type: none">ABB Ability Industrial IoT solutionsABB motor system application cases	
	4:50 – 5:00 PM	Q & A Session and day’s wrap up		

Session 03: VFD and motor system saving potentials			
Day-3 Dec-8	2:00 – 3:20 PM	Slot-1: Complete drive Systems – motors & VFD By <i>Mr. Andrea Vezzini, IEC TC member, Switzerland</i>	<ul style="list-style-type: none">VFD application in system energy conservation and efficiencyVFD and motor efficiencyMotor system transmission efficiency, belt/gears
	3:20 – 3:40 PM	Q&A Session and Break	
	3:40 – 4:50 PM	Slot 2: Motorsystem energy-saving best practices from China <i>By China National Institute of Standardization, China</i> MEPSY – motor saving potentials in different scenarios By <i>Mr. Colin Taylor, CLASP, USA</i>	<ul style="list-style-type: none">Introduction and demonstration of MEPSY online calculation tool for policy developmentChina motor and related system energy efficiency standardization and best practicesMotor system energy performance contracting
	4:50 – 5:00 PM	Q & A Session and day's wrap up	
Session 04: Digitalization of motor and energy systems			
Day-4 Dec-9	2:00 – 3:00 PM	Slot-1: Electricity monitoring and digitalization By <i>Mr. Hu Bo, Top10, China</i>	<ul style="list-style-type: none">Smart meters application in motor systemsElectricity monitoring meters and technical solutions
	3:00 – 4:00 PM	Slot-2: Industrial communication protocol training I: Modbus By <i>Mr. Hu Bo, Top10, China</i>	<ul style="list-style-type: none">Modbus protocol introductionModbus protocol demonstration and application
	4:00 – 4:20 PM	Q&A Session and Break	
	4:20 – 4:50 PM	Slot-3: Industrial communication protocol training II: OPC UA By <i>Mr. Hu Bo, Top10, China</i>	<ul style="list-style-type: none">OPC UA protocol introductionOPC UA protocol modelingOPC UA protocol programming and application
	4:50 – 5:00 PM	Q & A Session and day's wrap up	
Session 05: Digitalization of motor systems and closing ceremony			
Day-5 Dec-10	2:00 – 2:50 PM	Slot 1: ABB motor efficiency improvement applications matching with motor technologies and different case studies By <i>Mr. Lokesh B.M, R&D Hub Manager India, ABB Motion IEC motor division, India</i>	<ul style="list-style-type: none">ABB Ability Industrial IoT solutionsABB motor system application cases
	2:50 – 3:00 PM	Q & A Session	
	3:00 – 4:00 PM	Slot-2: Industrial communication protocol training II: OPC UA II By <i>Mr. Hu Bo, Top10, China</i>	<ul style="list-style-type: none">OPC UA protocol introductionOPC UA protocol modelingOPC UA protocol programming and application
	4:00 – 5:00 PM	Valedictory session	Closing Remarks by Director SEC and Mr. Conrad U. Brunner