

Area Name	Session Class	Session No.	Session Name	Date	Time	Room	Chair1	Chair2	ID No.	Abstract Title	First Author	
Area X: Energy Network	Oral Session	O-En-1	Energy Network	21-Jun	9:00 - 11:30	303	Junichi Imura (Tokyo Institute of Technology, Japan)	Antonio Atienza-Marquez (Universitat Rovira i Virgili, Spain)	1	Invited10-1	Dynamic Control of Power Systems with Distributed Energy Resources	Aranya Chakraborty (North Carolina State University)
									2	a90054	Distributed Design of Power System Stabilizers for PV-Integrated Grids via Retrofit Control	Hampei Sasahara (Graduate School of Engineering, Tokyo Institute of Technology, Tokyo, Japan)
									3	a90345	A STUDY ON RELATIONSHIP BETWEEN THE POWER FLOW AND THE CHARACTERISTIC OF POWER SYSTEMS	Shinichiro Terao (Department of System and Control Engineering Graduate School of Engineering, Tokyo Institute of Technology, Tokyo, Japan)
									4	a90984	Supply and demand operation to accommodate PV output in Kyushu	HIROSHI WANI (General Manager Transmission & System Operation Div., Kyushu Electric Power Co.,INC. Japan)
									5	a90349	ANALYSIS ON LINE CURRENT VARIATION MODEL FOR DYNAMIC LINE RATINGS UNDER VARIOUS METEOROLOGICAL CONDITIONS	Hideharu Sugihara (School of Engineering, Osaka University, Japan)
									6	a90338	MITIGATION CONTROL OF VERY-SHORT-TERM AND SHORT-TERM FLUCTUATIONS OF WIND POWER OUTPUT	Chiyori T. Urabe (Institute of Industrial Science, the University of Tokyo, Tokyo, Japan)
									7	a90392	HIGH PENETRATION OF VARIABLE RENEWABLE ENERGIES AND SUPPLY-DEMAND BALANCE IN THE WESTERN JAPAN GRID	Asami Takehama (The Faculty of Social Sciences, Ritsumeikan University, Kyoto, Japan)
									8	a90877	INTEGRATION OF RENEWABLE ENERGY SOURCES IN A POLYGENERATION PLANT WITH LNG COLD RECOVERY	Antonio Atienza-Marquez (Department of Mechanical Engineering, Universitat Rovira i Virgili, Spain)
Area X: Energy Network	Oral Session	O-En-2	Utility-scale Battery Storage and EV Applications	21-Jun	13:00 - 16:00	303	Hiroshi Asano (CRIEPI, Japan)	Mitsuhiro Matsumoto (Tohoku EPCo, Japan)	1	a91071	DEMONSTRATION PROJECT OF LARGE-SCALE STORAGE BATTERY SYSTEM AT MINAMI-HAYAKITA SUBSTATION -OVERVIEW OF THE DEMONSTRATION PROJECT-	Koji Shinya (Power Network Division, Hokkaido Electric Power Co., Sapporo, Japan)
									2	a91079	DEMONSTRATION PROJECT OF LARGE-SCALE STORAGE BATTERY SYSTEM AT MINAMI-HAYAKITA SUBSTATION -VERIFICATION RESULTS OF FREQUENCY FLUCTUATION CONTROL -	Koji Shinya (Power Network Division, Hokkaido Electric Power Co., Sapporo, Japan)
									3	a91019	DEMONSTRATION PROJECT OF LARGE-SCALE STORAGE BATTERY SYSTEM AT MINAMI-HAYAKITA SUBSTATION - EVALUATION OF THE 60MWH VANADIUM FLOW BATTERY SYSTEM PERFORMANCE -	Toshikazu Shibata (Sumitomo Electric Industries Ltd., Osaka Japan)
									4	a91020	DEMONSTRATION PROJECT ON FREQUENCY FLUCTUATION COUNTERMEASURE BY THE LARGE-SCALE BATTERY SYSTEM	Mitsuhiro Matsumoto (Tohoku Electric Power Co., Inc.)
									5	a91024	DEMONSTRATION PROJECT TO IMPROVE POWER SUPPLY-DEMAND BALANCE BY THE LARGE-SCALE BATTERY SYSTEM	Mitsuhiro Matsumoto (Tohoku Electric Power Co., Inc.)
									6	a91078	Lithium-ion Battery Technologies Suitable for Grid-support Energy Storage Systems	Daisuke Takeda (Toshiba Energy Systems & Solutions Corporation)
									7	a90989	DEMONSTRATION EXPERIMENT FOR VOLTAGE FLUCTUATION SUPPRESSION BY USE OF A LARGE-SCALE BATTERY SYSTEM IN THE MINAMI-SOMA SUBSTATION	Yoshinobu Ueda (Meidensha Corporation)
									8	a91061	SUPPLY-DEMAND BALANCE IMPROVEMENT USING 300MWH BATTERY STORAGE SYSTEM	Masaaki Nakazawa (Research Institute, Kyushu Electric Power Co.,INC., Fukuoka, Japan)
									9	b90013	DEVELOPMENT OF SODIUM SULFUR BATTERY AND APPLICATION	Tomio Tamakoshi (NGK INSULATORS, LTD.)
									10	a90745	STATE-OF-CHARGE TARGET CONTROL FOR ENERGY STORAGE SYSTEM FOR IMBALANCE AND WIND CURTAILMENT REDUCTION IN ELECTRICITY MARKET	Masakazu Ito (Waseda University, Tokyo, Japan)
									11	a90987	OPTIMAL PLACEMENT OF PHOTOVOLTAICS FOR ONE-WAY TRIP ELECTRIC VEHICLE SHARING	Akihiko Kawashima (Nagoya University, Nagoya, Japan)
									12	a91082	A High-Efficiency Active Power Dispatch Control for Large Scale Battery Energy Storage System	Mami Mizutani (Power and Industrial Systemes R&D Center, Toshiba Corporation, Tokyo, Japan)
Area X: Energy Network	Oral Session	O-En-3	MicroGrid	21-Jun	13:00 - 15:30	313+314	Junpei Baba (The University of Tokyo, Japan)	MUKHLIS ALI (Institut Teknologi Bandung, Indonesia)	1	a90154	DEVELOPMENT AND OPERATION OF EXPANDABLE MICRO-GRID CLUSTERS BASED ON THE DESIGN FRAMEWORK, GRID OF GRIDS OPTIMAL DESIGNER	Kazuaki Iwamura (Graduate School of Environment and Energy Engineering, Waseda University, Tokyo, Japan)
									2	a90174	DESIGN AND OPTIMIZATION OF SMART MICRO GRID SYSTEM FOR FISHERMEN'S ICE MAKER MACHINE IN KARIMUNJAWA	MUKHLIS ALI (Faculty of Mechanical and Aerospace Engineering, Institut Teknologi Bandung, Indonesia)
									3	a90489	COST CALCULATION OF MICRO-GRIDS IN MYANMAR BASED ON A FIELD SURVEY DATA	Masako Numata (Policy Alternatives Research Institute, The University of Tokyo, Japan)
									4	a90496	Optimal Scheduling and Control Technology Research for the Isolated Microgrid	Shyh-Wern Sun (Institute of Nuclear Energy Research, Taoyuan, Taiwan)
									5	a91042	DESIGN AND FABRICATION OF HYBRID RENEWABLE ENERGY SYSTEM PV-WIND TURBINE FOR A STAND-ALONE STREET-LIGHTING	Eka R M A P Lilipaly (Faculty of Mechanical and Aerospace Engineering, Institut Teknologi Bandung, Indonesia)
									6	a90696	BATTERY OPTIMAL OPERATION PLAN FOR AGGREGATOR CONSIDERING SPOT MARKET AND WHEELING CHARGES	Jindan Cui (Research Institute for Science and Technology, Tokyo University of Science)
									7	a90649	STUDY ON DISTRICT-LEVEL HIGH PEAK DEMAND SHAVING BY ELECTRIC POWER INTERCHANGE UTILIZING PRIVATE LINE	Kota Tajiri (Waseda University)

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									8	a90114	SWITCHED PV BATTERY OPERATION WITH MULTIPLE STANDBY GENERATORS	Kotaro Hashikura (Tokyo Metropolitan University)
									9	a90843	DESIGN OF E-SCOOTER MOTOR WITH THERMAL ANALYSIS BASED ON DRIVING CYCLE	Kanokvate Tungpimolrut (National Electronics and Computer Technology Center, Thailand)
									10	a91067	Development and Performance Evaluation Test of Smart Inverter and Control System for Photovoltaic Power Generation	Takeshi Fukuoka (R&D Department, Tokyo Electric Power Company Holdings, Inc., Japan)
Area X: Energy Network	Oral Session	O-En-4	Smart Grid	22-Jun	9:00 - 11:15	303	Hiroshi Yamaguchi (AIST, Japan)	Ryuji Matsuhashi (The University of Tokyo, Japan)	1	a90143	PAYOFF ALLOCATION TO CONTROLLABLE DEMAND RESOURCES IN DISTRIBUTION NETWORK WITH PHOTOVOLTAIC GENERATIONS	Shinya Sekizaki (Hiroshima University, Hiroshima, Japan)
									2	a90598	TRANSITION TO A SMARTER ENERGY GRID; INSIGHTS ON RESIDENTIAL ENERGY CONSUMER'S INTENTIONS TO ADOPT DEMAND SIDE MANAGEMENT AND DISTRIBUTED ENERGY	nikolaos iliopoulos (Graduate School of Frontier Sciences, Graduate Program of Sustainability Science - Global Leadership Initiative, The University of Tokyo, Tokyo, Japan)
									3	a90524	QUANTIFYING THE IMPACT OF RENEWABLE ENERGY INTERMITTENCY ON THE NEED FOR ENERGY STORAGE USING THE STORAGE DURATION INDEX	Richard Michael Nayak-Luke (Department of Engineering Science, University of Oxford, UK)
									4	a90701	ON THE DAY MODIFICATION OF DAY-AHEAD SCHEDULING FOR PREDICTION-ERROR COMPENSATION WITH AGGREGATION OF RESIDENTIAL PVS AND BATTERIES	Takahiro Sasaki (Research Institute for Science and Technology, Tokyo University of Science, Japan)
									5	a90437	A STUDY ON USING ELECTRIC VEHICLES FOR LOAD FREQUENCY CONTROL IN POWER SYSTEMS	Ryuji Matsuhashi (The University of Tokyo, Japan)
									6	a90165	OPTIMAL SCHEDULING OF AGGREGATED DEMAND-SIDE MULTIPURPOSE BATTERIES FOR DEMAND RESPONSE	Masahiko Murai (Power and Industrial Systems R&D Center, Toshiba Corporation, Tokyo, Japan)
									7	a90155	DEVELOPMENT OF AN ENERGY MANAGEMENT TOOL FOR RENEWABLE ENERGY SOURCE'S PENETRATION AND BATTERY'S OPERATION	Yoshiki Tanioka (Hiroshima University)
									8	a90313	OPTIMUM OPERATION PLAN OF STORAGE BATTERYIN CONSIDERATION OF TEMPERATURE AND LIFE CHARACTERISTICS	Nobuhiro Mayaguchi (Hiroshima University)
									9	a91153	DEVELOPMENT AND DEMONSTRATION OF COMPRESSED AIR ENERGY STORAGE SYSTEM FOR POWER COMPENSATION OF INTERMITTENT RENEWABLES	Hiroshi Hasuike (Research and Development Division, The Institute of Applied Energy, Tokyo, Japan)
Area X: Energy Network	Poster Session	P-En-1	Smart Grid	21-Jun	12:00 - 13:00	foyer			1	a90307	EFFECT OF REQUIREMENT OF ΔkW-REGULATION CONSIDERING RENEWABLE ENERGY RESOURCES	Takuya Kuwabara (Department of Electrical Engineering, Tokyo University of Science, Tokyo, Japan)
									2	a90331	QUANTITATIVE ANALYSIS OF CONTROLLER DESIGN LOCALIZABILITY AND ITS APPLICATION TO CONTROLLER PLACEMENT FOR POWER SYSTEMS	Kengo Urata (Tokyo Institute of Technology)
									3	a90347	ROBUST POWER SYSTEM SECURITY ASSESSMENT UNDER UNCERTAINTIES OF PV PENETRATION	Shinji Kaneoka (Graduate School of Engineering, Hiroshima University)
									4	a90402	ROBUST SUPPLY AND DEMAND CONTROLLER UNDER HIGH PV PENETRATION	Riki Ueshima (Graduate School of Engineering, Hiroshima University)
									5	a90404	RETROFIT CONTROL WITH SYSTEM IDENTIFICATION FOR TRANSIENT STABILIZATION IN POWER SYSTEMS	Takahiro Kawaguchi (Department of Systems and Control Engineering, Graduate School of Engineering, Tokyo Institute of Technology, Tokyo, Japan)
									6	a90543	DECENTRALIZED TRANSACTION SYSTEM OF SURPLUS PV OUTPUT USING BLOCKCHAIN	Takumi Nagatsuka (Department of Electrical Engineering, Tokyo University of Science, Tokyo, Japan)
									7	b90059	A COMMERCIAL MODEL FOR REGULATING NETWORK VOLTAGE WITH CUSTOMER INVERTERS	Scott Dwyer (University of Technology Sydney, Australia)
Area X: Energy Network	Poster Session	P-En-2	MicroGrid	21-Jun	16:00 - 17:00	foyer			1	a90216	Power Smoothing Control of Battery Energy Storage Systems for Microgrid Applications	Jun-Ting Gao (Institute of Nuclear Energy Research Atomic Energy Council, Taiwan)
									2	a90768	Study of power interchange using UPFC in case of power system failure	Daiki Owaki (Aichi Institute of Technology)
Area X: Energy Network	Poster Session	P-En-3	Energy Network	21-Jun	16:00 - 17:00	foyer			1	a90375	THE OCCUPANTS' PERCEPTION ABOUT INDOOR AIR TEMPERATURE AND HUMIDITY IN A HEMS CONDOMINIUM	Rajan KC (Graduate School of Environmental and Information Studies, Tokyo City University)
									2	a90796	Basic Study of Long-Term Deployment Planning for Voltage Regulators on Distribution System under Uncertainties in PV Penetration Scenarios	Taichi Mikami (Department of Electrical Engineering and Bioscience, Waseda University, Tokyo, Japan)
									3	a90859	EVALUATION OF RESIDENTIAL COMMUNITY ENERGY SYSTEM INSTALLING PV AND EV	Takafumi Uosawa (Graduate School of Bio-Applications and Systems Engineering, Tokyo University of Agriculture and Technology, Tokyo, Japan)
Area X: Energy Network	Poster Session	P-En-4	Distributed Energy Resources	21-Jun	16:00 - 17:00	foyer			1	a90230	DISTRIBUTED PRICING FOR MULTI-PERIOD ELECTRICITY MARKET	Youngchae Cho (Department of Systems and Control Engineering, Tokyo Institute of Technology, Tokyo, Japan)
									2	b90044	Examination of improvement effect of self-consumption rate by introducing V2H system	Takaya Sadatome (Department of Electrical Engineering, Tokyo University of Science, Japan)
Area X: Energy Network	Poster Session	P-En-5	Vehicle to Grid	22-Jun	11:00 - 12:00	foyer			1	a90305	Procurement of ΔkW-Regulation from EV batteries Considering Intraday Changes on the Number of EV Grid Connections	Kogen Shibata (Department of Electrical Engineering, Tokyo University of Science, Tokyo, Japan)

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Area X: Energy Network	Poster Session	P-En-6	Advanced Electric Car	22-Jun	11:00 - 12:00	foyer			1	a91028	Fundamental Experiments for the Light Rail System Which Runs on Renewable Energy	Takaki Kameya (Graduate School of Science and Technology, Kumamoto University, Japan)
Area X: Energy Network	Poster Session	P-En-7	Distributed Energy Resources	22-Jun	11:00 - 12:00	foyer			1	a90257	POWER LOSSES AND GAINS WITH BUILDING INTEGRATED PV SYSTEMS	Antonio P Sanfilippo (Qatar Environment & Energy Research Institute)
									2	a91035	SMOOTHING OF WIND POWER OUTPUT BY INERTIAL ENERGY INTERCHANGE BETWEEN WINDMILLS	Keisuke Okada (Dept. of Electrical and Electronic Eng, Tokushima University, Tokushima, Japan)
									3	a90777	ROBUST NONLINEAR POWER CONTROL FOR THERMOELECTRIC GENERATION SYSTEMS	Mingcong Deng (Tokyo University of Agriculture and Technology)
									4	b90056	Estimate of the Future Renewable Energy Supply Using Feed-in Tariff Certification Data	Hiroyuki Yamada (Energy Systmes Design Program, Social Systems Research-Domain, TOYOTA CENTRAL R&D LABS., INC., Aichi, Japan)
Area X: Energy Network	Poster Session	P-En-8	Energy Network	22-Jun	11:00 - 12:00	foyer			1	a91148	IMPACT ASSESSMENT OF PV POWER OUTPUT FORECAST UPDATE ON IMPROVEMENT OF UNIT COMMITMENT SCHEDULING	Takeyoshi Kato (Institute of Materials and Systems for Susteinability, Nagoya University, Nagoya, Japan)