

## Schedule of Poster Session

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Poster Session 1: C1,C2,C4,C5

Date and Time : Wednesday 6<sup>th</sup> April, 10:30-12:00

Place: Room E

Paper No.	Title and Author/s(Presenter)
006	A Case Study of New Load Frequency Controller for Reduction of Both Area Control Error and Automatic Frequency Restoration Reserve Energy Cost *Keita Tokumitsu, Hiroyuki Amano, Kenichi Kawabe
023	Roles of Smart Grids in the VUCA era and Evaluation Method as SDGs *Hiroshi Suzuki, Isao Iyoda
025	Dynamic Determination Method of LFC Capacity Using Correspondence Table between LFC Capacity and PV Output Forecast Error in Wide Fluctuating Season of Solar Radiation *Keito Nishida, Ryuto Shigenobu, Masakazu Ito, Hisao Taoka, Norikazu Kanao, Hitoshi Sugimoto
042	Verification of a Voltage and Reactive Power Control Method with Successively Updated Target Value for a Power System with Multiple Lines *Yuto Nakamura, Mutsumi Aoki, Katsuhisa Ueda, Chand Suresh Verma, Ryo Yamaguchi, Akihiro Shimono
045	Development of Electricity Market Simulator Based on Multi-Agent Technology *Hideaki Hirano, Shoichi Kitamura, Kazuyuki Mori, Naoki Mori
046	Development of Grid Planning Support System based on Multi-Snapshot Management in Cyberspace *Yoshihisa Okamoto, Daiki Nishimura, Yasuyuki Tada
047	Short-Term Forecast method of Active and Reactive Power Based on Adaptive Correction of Sudden Load Changes *Masato Utsumi, Satoru Yoshida, Nawanat Eua-Anant, Jittipath Triyangkulsri, Yasuyuki Tada
054	Optimization of the Lightning Horn Installation Poles for Rationalization of the Lightning Protection Design of a Medium-Voltage Distribution Line. *Kosuke Banno, Shinji Yasui, Tomoaki Nonoyama, Hidekazu Tanaka, Yasuyuki Kunii, Hajime Katada
056	Evaluation of the occurrence rate of multi-phase flashover in consideration of the V-t characteristics of lightning-protection equipment in the medium-voltage distribution line *Hajime Katada, Shinji Yasui, Tomoaki Nonoyama, Hidekazu Tanaka, Yasuyuki Kunii, Kosuke Banno
072	The enhancement of the Frequency Converter facilities as the interregional interconnection between the eastern Japan(50Hz) and the western Japan(60Hz) *Tsuyoshi Tanaka, Tatsuya Shimogata, Yuuji Yamamoto

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Paper No.	Title and Author/s(Presenter)
074	Development and application of online pre-fault calculating type power system stabilizing controller using IP communication Motohiro Mikawa, Hajime Yasuda, Tomohiro Hoshino, *Yukina Kurata, Takahiro Mori, Shogo Miura
108	Profitability Analysis of Photovoltaics and Battery Storages Using Screening Curve Method: A Study on the Interaction Between PV/Battery Share and Prices of Electricity Spot Market *Yosuke Irie, Hikaru Hoshino, Ken Furusawa, Kenji Okada, Eiko Furutani
137	Basic study on Effect of Storage Battery Introduction on Merit-order-based Load Frequency Control *Naoki Sasada, Masaru Saida, Masaki Imanaka, Muneaki Kurimoto, Shigeyuki Sugimoto, Takeyoshi Kato, Ryo Yamaguchi, Yoshiki Nakachi
161	Development of “Multi-regional EMS Digital Power Supply System” for Carbon Neutrality *Tomoyuki Chinuki, Emi Sugiyama, Koichi Hirose
179	HVDC, Enhancing Stability and Resiliency of the Grid with Renewables *Shigenori Inoue, Atsushi Nishioka, Hans L. Hillborg
186	Challenges to keep resiliency under contingency by using DER *Yoshimitsu Umahashi, Tomohisa Hashimoto, Naoki Yamamoto

## Schedule of Poster Session

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### Poster Session 2: C6,D2

Date and Time : Thursday 7<sup>th</sup> April, 10:30-12:00

Place: Room E

Paper No.	Title and Author/s(Presenter)
012	Building an IP Network to Strengthen Resilience *Rui Kitamura, Takahiro Fujii
013	Robust Optimization for Unit Commitment Problem Considering Suppression of Renewable Energy: Analysis of Numerical Experimental Results *Tomohide Yamazaki, Pierre-Louis Poirion, Ichiro Toyoshima, Kota Yaguchi, Masayuki Kubota, Ryota Mizutani, Akiko Takeda
014	Use Cases for On-site Video Streaming and Predictive Equipment Failure Detection in Japan *Yuya Saga, Yuki Hirokawa, Ryohei Kamo, Hirokazu Kaneko, Takuya Yagi, Mizuki Kato
015	Intra-day PV Forecasting by Persistent Prediction of Quantile Deviation *Hiromasa Shin, Mitsuru Kakimoto, Yoshiaki Shiga, Takeshi Ohba
032	Potential to Reduce Transmission Line Overloading owing to Photovoltaic Installation using a Traction Power Supply System and Storage Battery for Electric Vehicles *Takahiro Fukuda, Sho Nakamura, Yasuhiro Kodama, Yasuhiro Hayashi, Hitoshi Hayashiya
039	Measures to ensure power quality using DER on integration of distribution lines in rural areas *Yasuhiro Kodama, Hiroshi Suwa, Hideo Ishii, Yasuhiro Hayashi
049	An approach of DERs utilization to satisfy both of VPP-EMS and distribution system control *Shota Yumiki, Shunsuke Kawano, Keishi Matsuda
052	A Method to Assess the Consumers Being Suitable for Dispatching a Demand Response in Advance by Using Concentration Inequality *Kenji Ono, Soichiro Shigematsu, Shigeo Matsuzawa
055	Application of Software LTE Technology for electric power company. *Shiro Mizuno, Katsuhito Sawada
058	Decision Support Model on Maintenance for Electrical Components in Distribution Network Using Their Inspection and Maintenance Records *Noriehisa Iwase, Hirotaka Takano, Hiroshi Asano, Junki Oasa, Shoichi Higashiyama
066	Understand of the Impact of Automatic Volt-Var Control on System Protection in Off-Grid During a Disaster *Takaya Anegawa, Atsushi Ishigame, Satoshi Takayama

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### Poster Session 2: C6,D2

Date and Time : Thursday 7<sup>th</sup> April, 10:30-12:00

Place: Room E

Paper No.	Title and Author/s(Presenter)
082	Investigation of middle-voltage estimation method for power distribution system utilizing measurement information such as smart meters <i>*Ikki Shinozaki, Shinya Fukuba, Hiroyuki Mabuchi, Yoshitaka Miyazato</i>
102	Multiple-Use Application between Distribution and CAISO market by Distribution attached Flow Battery Systems <i>*Riichi Kitano, Kazuhiro Fujikawa, Toshikazu Shibata, Takashi Yano</i>
104	Enhancement of hosting capacity of photovoltaic generation in a distribution network by application of next-generation semiconductor technology on power electronics equipment <i>*Daisuke Iioka, Dai Orihara, Kentaro Fukushima, Shigeru Bando, Seiya Abe, Hiroshi Asano</i>
117	Sensing Data Collection System by multi-hop network in the Sub-GHz band <i>*Hiroki Kudo, Yasuyuki Tanaka, Toshio Nishida</i>
152	Impact of weather condition on optimal probabilistic power flow based operation schedule of an off-grid <i>*Takuto Ohsawa, Ryoichi Hara, Hiroyuki Kita, Tomokazu Sato, Atoru Akagi</i>
155	Application of MPLS-TP Technology for Migration of Transmission Network for Protection Relay Systems <i>*Makoto Kubo, Rohalt Liebert</i>
160	Key Technologies of a Virtual Power Plant for the Large-scale Introduction of Renewable Energy <i>*Takuya Hongu, Yuki Hayashi, Hiromasa Shin, Yoshiaki Shiga, Honami Fujita, Yu Kaneko</i>