

http://www.apshe.cn

2020年第4期·第36卷·总第249期·月刊
2020 Vol.36 No.4 (Ser.249) Monthly

QK2021325

电网与清洁能源

Power System and Clean Energy

DIANWANG YU QINGJIE NENGYUAN

中国科技核心期刊 Chinese Science and Technology Core Periodical

美国《乌利希期刊指南》收录期刊 Indexed by Ulrich's Periodicals Directory, United States
波兰《哥白尼索引》(IC)来源期刊 Source Periodicals for Index of Copernicus (IC), Poland



ISSN 1674-3814



9 771674 381207
万方数据

主管单位 国家电网有限公司
主办单位 国网陕西省电力公司
西安理工大学水利水电土木建筑研究设计院
Competent Authority State Grid Corporation of China
Sponsors State Grid Shaanxi Electric Power Company
Xi'an University of Technology, Research and Design
Institute of Hydraulic and Architectural Engineering



电网与清洁能源

DIANWANG YU QINGJIE NENGYUAN

第 36 卷

第 4 期 (总第 249 期)

2020 年 4 月 25 日

目 次

智能电网

- 01 基于相似性识别的短期负荷动态预测方法 / 陈杰尧, 黄炜斌, 马光文, 陈仕军, 谢荻雅
- 08 多配电网线路并发合环电压差计算方法研究 / 王金芹, 贺柱, 张建华, 陈凯
- 14 基于改进精简爆炸烟花的区域商业楼宇日前电能交易 / 张世斌, 李敬光, 陈威洪, 张鑫, 赖伟坚, 张志义, 余涛
- 23 噪声背景下基于激光雷达点云数据的分裂导线自动提取与三维重建 / 谢洪平, 陈兵, 杜长青, 孙铭泽, 王磊磊, 生红莹
- 32 含新能源发电的电力系统状态估计研究 / 朱罡, 王茂春
- 41 基于电能质量约束的智能配电网分布式电源消纳能力研究 / 谢林枫, 王红星, 刘军成, 尹飞, 仲春林, 梁栋
- 48 直流受端多资源电压协调控制策略研究 / 边宏宇, 徐友平, 党杰, 邵德军, 潘晓杰, 李程昊
- 55 基于非接触式行波采集的分布式高压直流故障测距方法 / 张烽宁, 孟令军, 王越杨
- 60 基于SDN技术的电力数据中心传输时延测试研究 / 黄安妮, 郑俊明, 凌涵钧

清洁能源

- 66 基于供热网络热惯性的风电消纳能力评估 / 杨德友, 聂新宇
- 72 能源互联网内多类设备协同运行的能量管理系统软件设计 / 赖伟坚, 陈威洪, 林泽宏, 李敬光, 张鑫, 唐建林, 余涛
- 81 甘肃地区高比例新能源大外送电网面临的挑战及思考 / 张柏林, 郁娇山, 黄万龙, 郝如海, 祁莹, 董明, 徐广昊, 夏昌杰
- 90 暂态干扰下并网光伏发电系统故障特性研究 / 马喜平, 夏超浩, 徐宏雷, 沈渭程, 贾嵘, 党建
- 97 “互联网+”的客户侧分布式储能P2P共享模式运营机制及效益探讨 / 刘娟, 邹丹平, 陈毓春, 楚中建, 左高, 滕振山
- 106 考虑电动汽车互动的综合能源系统扩展规划 / 李兴源, 蒋林迦, 陈中, 黄学良
- 115 不同场景下基于AHP-TOPSIS退役电池梯次利用综合评价 / 吴威, 唐雨晨, 叶荣, 林章岁, 江岳文, 温步瀛

本刊送阅:

国务院、国家能源局、各省(区)政府电力、能源主管领导
国家电网、能源企业主要负责人
中国科学院、中国工程院院士
电力、能源相关学会、协会
中国国家图书馆、中国版本图书馆、各省(区)图书馆

Contents

- Smart Grid**
- 01 A Short-Term Load Dynamic Prediction Method Based on Similarity Recognition / *CHEN Jieyao, HUANG Weibin, MA Guangwen, CHEN Shijun, XIE Diya*
- 08 Study on the Calculation Method of Concurrent Closed Loop Voltage Difference for Multiple Distribution Network Lines / *WANG Jinqin, HE Zhu, ZHANG Jianhua, CHEN Kai*
- 14 Day-Ahead Energy Transaction for Commercial Buildings Based on Improved Bare Bones Fireworks Algorithm / *ZHANG Shibin, LI Jingguang, CHEN Weihong, ZHANG Xin, LAI Weijian, ZHANG Zhiyi, YU Tao*
- 23 Automatic Extraction and 3D Reconstruction of Bundle Conductors Based on Lidar Point Cloud Data in Noise Background / *XIE Hongping, CHEN Bing, DU Changqing, SUN Mingze, WANG Leilei, SHENG Hongying*
- 32 Review on State Estimation for Power System Containing Renewable Energy Generation / *ZHU Gang, WANG Maochun*
- 41 A Study on the Distributed Generation Accommodation Capacity of the Smart Distribution Network Based on Power Quality Constraints / *XIE Linfeng, WANG Hongxing, LIU Juncheng, YIN Fei, ZHONG Chunlin, LIANG Dong*
- 48 Research on Multi-Resource Voltage Coordinated Control Strategy at DC Receiving Terminal / *BIAN Hongyu, XU Youping, DANG Jie, SHAO Dejun, PAN Xiaojie, LI Chenghao*
- 55 A Fault Location Method for Distributed HVDC High Resistance Fault Based on Non-Contact Traveling Wave Collecting / *ZHANG Yining, MENG Lingjun, WANG Yueyang*
- 60 Research on Transmission Delay Testing of Power Data Center Based on SDN Technology / *HUANG Anni, ZHENG Junming, LING Hanjun*
- Clean Energy**
- 66 Evaluation of Wind Power Absorption Capacity Considering Thermal Inertia of Heating Network / *YANG Deyou, NIE Xinyu*
- 72 The Software Design of Energy Management System for the Collaborative Operation of Multiple Types of Devices in the Internet of Energy / *LAI Weijian, CHEN Weihong, LIN Zehong, LI Jingguang, ZHANG Xin, TANG Jianlin, YU Tao*
- 81 Challenges and Reflections on the Power Grid of High Proportion of New Energy in Gansu Province / *ZHANG Bolin, YU Jiaoshan, HUANG Wanlong, HAO Ruhai, QI Ying, DONG Ming, XU Guanghao, XIA Changjie*
- 90 A Study on Fault Characteristics of Grid-Connected Photovoltaic Power Generation System under Transient Disturbance / *MA Xiping, XIA Chaohao, XU Honglei, SHEN Weicheng, JIA Rong, DANG Jian*
- 97 Discussions on Operation Mechanism and Benefits of Customer-Side Distributed Energy Storage P2P Sharing Mode of " Internet +" / *LIU Juan, ZOU Danping, CHEN Yuchun, CHU Zhongjian, ZUO Gao, TENG Zhenshan*
- 106 Expansion Planning of Integrated Energy System with the Interaction Between Electric Vehicles and Power Grid / *LI Xingyuan, JIANG Linru, CHEN Zhong, HUANG Xueliang*
- 115 Comprehensive Evaluation of AHP-TOPSIS Decommissioned Battery Secondary Utilization in Different Scenarios / *WU Wei, TANG Yuchen, YE Rong, LIN Zhangsui, JIANG Yuewen, WEN Buzhen*

