

电力需求侧管理

POWER DEMAND SIDE MANAGEMENT

ISSN 1009-1831
CN 32-1592/TK

1

2019

英大传媒投资集团南京有限公司 主办
国网(江苏)电力需求侧管理指导中心有限公司

- ◆ 需求响应的商业机制与市场框架初探
- ◆ 考虑时序特性含电动汽车的分布式风电源优化配置
- ◆ 公共楼宇群体价格型负荷响应的仿真分析方法研究
- ◆ 工业园区智慧能源管理系统的探索与应用

20周年

新起点 再出发

热烈庆祝《电力需求侧管理》创刊20周年!

ISSN 1009-1831



9 771009 183193



投稿网站二维码

中国科技核心期刊
全国电力优秀期刊

万方数据

第21卷
总第117期



第21卷·第1期·总第117期

□ 本刊专稿

- 01 准确把握形势,紧密结合改革 统筹做好2019年全国电力需求侧管理工作 王海龙
- 04 需求响应的商业机制与市场框架初探 文福拴,林鸿基,胡嘉骅
- 10 《电力需求侧管理》2019年选题方向 《电力需求侧管理》编辑部

□ 研究与探讨

- 11 含电动汽车负荷的分布式风电源优化配置 许 珊,李 扬
- 16 基于空调负荷的虚拟储能参与调频的控制策略 屠聪为,曹 军,于东立,门向阳
- 22 能源送出省输配电价定价方法探讨 张宝龙,韩 放,王林炎,陶文斌
- 27 基于果蝇优化模糊神经网络模型的售电市场评估 李德智,张文文,嵇建飞

□ 能效与负荷管理

- 32 计及直接负荷控制的商业建筑型微电网优化运行方法 朱翰超,马 蕊,孙 聪,马跃洋,王 迪
- 37 基于多变量灰色预测模型的省级电力公司中长期电量预测 蒋浩然,刘小聪,李 扬
- 42 公共楼宇群体价格型负荷响应的仿真分析方法研究 宁艺飞,陈星莺,谢 俊,余 昆,李作锋,陈振宇,马淑淑

□ 电能替代与绿色用电

- 47 计及分布式能源与电动汽车接入的空间负荷预测 蒯圣宇,田 佳,台德群,王加庆,韩天轮
- 52 用户侧储能设备参与电网辅助服务的技术经济性分析 曹 敏,徐杰彦,巨 健,谢 婷,朱 婧,肖宝辉,席雅雯
- 56 可再生能源配额政策对新能源发展影响分析及消纳策略研究 高 逸,吴耀武,宋新甫,徐秀龙,周 专

□ 智能用电与综合能源服务

- 62 工业园区智慧能源管理系统的探索与应用 王琴明
- 65 低压电能计量装置闭环运行管理模式探索与应用 马 亮,赵 睿,谢 烽
- 70 电力营销服务移动作业终端融合的研究与探讨 张艳丽,王玉君,石 磊,程 杰,朱天博
- 73 新电改背景下电力大客户服务策略推荐模型研究 孔月萍,吴 飞,陈新崛,黄 茜,庞 芹,李洁莹,韩 琳,章劲秋

□ 环球揽萃

- 78 英美输配电价调整机制的经验与启示 李国中,程清洁,张 茂,郑 洋,杨尚辰

POWER DEMAND SIDE MANAGEMENT

2019 Vol.21 No.1 (Ser.117)
Jan 20, 2019

CONTENTS

□ Special contributions

01 Grasp the situation accurately and combine with reformation closely to co-ordinate national DSM work in 2019

(WANG Hailong)

04 A preliminary investigation on commercial mechanism and market framework of demand response

(WEN Fushuan, LIN Hongji, HU Jiahua)

10 Topic directions of journal Power Demand Side Management in the year 2019

(Editorial Department)

□ Academic research

11 Optimal allocation of distributed wind generation including loads of electric vehicles

(XU Shan, LI Yang)

16 Control strategy of virtual energy storage system participating in frequency modulation based on air conditioning loads

(TU Congwei, CAO Jun, YU Dongli, MEN Xiangyang)

22 Discussion on transmission and distribution pricing method of energy exporting provinces

(ZHANG Baolong, HAN Fang, WANG Linyan, Tao Wenbin)

27 Electricity retail market evaluation based on fruit fly optimized and fuzzy neural network model

(LI Dezhi, ZHANG Wenwen, JI Jianfei)

□ Energy efficiency and load management

32 Optimal operation method of commercial building microgrid considering direct load control

(ZHU Hanchao, MA Rui, SUN Cong, MA Yueyang, WANG Di)

37 Mid-and-long term electricity consumption forecasting of provincial power companies based on multi-variable gray forecasting model

(JIANG Haoran, LIU Xiaocong, LI Yang)

42 Study on the method of simulation analysis for price based

load response of public building

(NING Yifei, CHEN Xingying, XIE Jun, YU Kun,
LI Zuofeng, CHEN Zhenyu, MA Shushu)

□ Energy substitution and green power

47 Space load forecasting considering distributed energy and electric vehicles

(KUAI Shengyu, TIAN Jia, TAI Dequn, WANG Jiaqing, HAN Tianlun)

52 Technical and economic analysis of user side energy storage equipment participating in power grid ancillary services

(CAO Min, XU Jieyan, JU Jian, XIE Ting, ZHU Jing,
XIAO Baohui, XI Yawen)

56 Analysis on the effect of the policy of renewable portfolio standards on renewable energy development and accommodation strategies study

(GAO Yi, WU Yaowu, SONG Xinfu, XU Longxiu, ZHOU Zhuan)

□ Smart power and electricity service

62 Exploration and application of industrial park smart energy management system

(WANG Qinming)

65 Research and application of low voltage electric energy measure device closed-loop operation management model

(MA Liang, ZHAO Rui, XIE Feng)

70 Research and discussion on the fusion of mobile operation terminal in electric power marketing service

(ZHANG Yanli, WANG Yujun, SHI Lei, CHENG Jie, ZHU Tianbo)

73 Research on service strategy recommendation model of electric power customers on the background of new electricity system reform

(KONG Yueping, WU Fei, CHEN Xinjue, HUANG Qian, PANG Qin,
LI Jieying, HAN Lin, ZHANG Jinqiu)

□ International highlights

78 Experience and enlightenment of transmission and distribution price adjustment mechanism in England and America

(LI Guozhong, CHENG Qingjie, ZHANG Mao,
ZHENG Yang, YANG Shangchen)

Competent Authorities Yingda Media Investment Group Company, Ltd.

Sponsor Yingda Media Investment Group Nanjing Co., Ltd.

State Grid (Jiangsu) DSM Instruction Center Co., Ltd.

Editor and Publisher Editorial Board of Power Demand Side Management

Editor in Chief CHEN Jiang-hua

Publication Number ISSN 1009-1831

Overseas Code 4855BM

Add 20 West Beijing Road, Nanjing, 210024, China

Website www.sgdsdm.com

E-mail dsm@sgdsdm.com

Tel 86-25-82228588, 82228589

Fax 86-25-82228580

Distributed Aboard by China International Book Trading Corporation
(P.O.Box 399, Beijing, China)