

# 信电号角系列学术报告——

## ICSaid2021 分会场报告

<b>Session 4: Rural Zero Carbon Energy Development</b>	
July 11, 2021 (Sunday)	
Room 639, CIEE, CAU	
Moderator: Associate Prof. Tianjun Jing 主持人：井天军 副教授	
08:30-08:50	<b>State Grid Assists the Full Implementation of Rural Revitalization</b> <b>Mr. Junzhang Chen</b> State Grid Corporation of China 国家电网助力乡村振兴战略全面实施 陈俊章 处长 国家电网公司
08:50-09:10	<b>Cloud Management and Terminal Autonomy for Rural Smart Energy Services</b> <b>Prof. Weizhou Wang</b> Gansu Power Company of State Grid 面向乡村智慧能源服务的云端管理与终端自治 王维洲 教授级高工 国网甘肃省电力公司
09:10-09:30	<b>Thinking of Solar Energy Technology in Rural Zero-Carbon Energy System</b> <b>Prof. Zhifeng Wang</b> Institute of Electrical Engineering, Chinese Academy of Sciences 乡村零碳能源体系中的太阳能技术思考 王志峰 教授 中国科学院电工研究所
09:30-09:50	<b>Possible Technologies for Carbon Neutralization in Rural Regions and Agricultural Sector</b> <b>Prof. Renjie Dong</b> China Agricultural University 农业农村碳中和的主要工程技术途径初探 董仁杰 教授 中国农业大学
09:50-10:10	<b>Discussion on Application of High-efficiency Energy-saving Distribution Transformer Technology in New Rural Power Grid</b> <b>Prof. Jinli Wang</b>

	<p>China Electric Power Research Institute          高效节能配变技术在新型乡村电网的应用探讨          王金丽 教授级高工          中国电科院配电技术中心</p>
<p><b>Moderator: Associate Prof. Lu Zhang</b>          主持人：张璐 副教授</p>	
10:20-10:40	<p><b>The Development and Application of Solar Thermal Technology under the Background of Carbon Emission Reduction</b>  <b>Prof. Qiang Yu</b>          China Agricultural University          碳减排背景下的太阳能光热技术发展及应用          余强 教授          中国农业大学</p>
10:40-11:00	<p><b>Hydrogen Power Generation Equipment</b>  <b>Mr. Xingyue Wang</b>          Beijing Ludian Electrical Equipment Co., Ltd.          氢能发电装备          王兴越 总工程师          北京潞电电气设备有限公司</p>
11:00-11:20	<p><b>Analysis of Vulnerability of Distribution Network under Earthquake Disaster</b>  <b>Prof. Lei Xia</b>          Xihua University          地震灾害下配电网的脆弱性及弹性分析          雷霞 教授          西华大学</p>
11:20-11:35	<p><b>Key Technology of Hybrid AC/DC Distribution Network to Accommodate Renewable Energy</b>  <b>Associate Prof. Lu Zhang</b>          China Agricultural University          面向分布式可再生能源消纳的交直流混合配电网关键技术          张璐 副教授          中国农业大学</p>
11:35-11:50	<p><b>Dynamic Modeling and Simulation of IES</b>  <b>Associate Prof. Yue Xia</b>          China Agricultural University          综合能源系统动态建模与仿真          夏越 副教授          中国农业大学</p>
11:50-12:05	<p><b>Modelling Framework for Characterising the Impact of Uncertainty on Energy Systems</b>  <b>Associate Prof. Yongning Zhao</b>          China Agricultural University          不确定性对综合能源系统影响的建模分析框架          赵永宁 副教授</p>

	中国农业大学
<p style="text-align: center;"><b>Moderator: Associate Prof. Yue Xia</b> 主持人：夏越 副教授</p>	
14:00-14:20	<p><b>Chinese Rural Building Carbon Neutral Path</b> <b>Zechun Chen</b> China Agricultural University 我国农村建筑碳中和路径 陈泽春 中国农业大学</p>
14:20-14:40	<p><b>Multi-time Scale Energy Coordinated Optimal Dispatching of Grid-connected Microgrid Based on VMD-MPC Method</b> <b>Qicheng Zhang</b> China Agricultural University 基于 VMD-MPC 法的并网型微电网多时间尺度能量协调优化调度 张启承 中国农业大学</p>
14:40-15:00	<p><b>Electricity Price Elasticity Model in Electricity Market Transaction Mode</b> <b>Shu Fang</b> China Agricultural University 电力市场交易模式下的电量电价弹性模型 方舒 中国农业大学</p>
15:00-15:20	<p><b>Dynamic Reconfiguration Method of Rural Active Distribution Network Based on Region Division</b> <b>Zhihong Liu</b> China Agricultural University 基于区域划分的农村有源配电网动态重构方法 刘志虹 中国农业大学</p>
15:20-15:40	<p><b>Dynamic Modeling and Simulation of Natural Gas Pipeline Network Based on Equivalent Circuit Method</b> <b>Ruikai Song</b> China Agricultural University 基于等效电路法的天然气管网动态建模与仿真 宋瑞凯 中国农业大学</p>

Moderator: Associate Prof. Yongning Zhao

主持人：赵永宁 副教授

<p>16:00-16:20</p>	<p><b>Design and Optimal Configuration Method of Rural Integrated Energy Station Based on Photovoltaic Poverty Alleviation</b> <b>Ruonan Sun</b> China Agricultural University 基于光伏扶贫的农村综合能源站设计与优化配置方法 孙若男 中国农业大学</p>
<p>16:20-16:40</p>	<p><b>Unified Analysis of High-performance Three-phase Power Flow and Failure Adapted to Non-smooth Characteristics</b> <b>Qianhui Chen</b> China Agricultural University 适应非光滑特性的高性能三相潮流与故障统一分析 陈千慧 中国农业大学</p>
<p>16:40-17:00</p>	<p><b>Reliability Evaluation of Rural Integrated Energy System Considering Optimal Load Reduction and Thermal Load Inertia</b> <b>Yongchao Pan</b> China Agricultural University 考虑最优负荷削减与热负荷惯性的农村综合能源系统可靠性评估 潘永超 中国农业大学</p>
<p>17:00-17:20</p>	<p><b>Static Security Analysis of Energy Internet in Agricultural Parks Considering Spatial Coupling</b> <b>Yazhong Zhou</b> China Agricultural University 考虑空间耦合的农业园区能源互联网静态安全分析 周亚中 中国农业大学</p>