

面向新型电力系统的分布式光伏本地通信探讨 【上架时间： 2023-03-30】



面向新型电力系统的分布式光伏本地通信探讨

作者	:	作者	:	蒋维
分类	:	论文		
价格	:	¥0.00		

↓ 下载

详细信息

【标题】 面向新型电力系统的分布式光伏本地通信探讨

【Title】 Discussion on Distributed Photovoltaic Local Communication for New Type Power System

【摘要】 为实现碳达峰、碳中和目标，我国新能源将进一步跨越式发展，继续以数倍于用电负荷增长的速度新增并网，成为电力系统的主体电源。随着高比例分布式光伏广泛接入，要实现对其“可观、可测、可控”，给通信接入方式也提出巨大挑战。为此，提出一种基于交直流载波融合技术来完成变电台区内多个分布式光伏站内组件、汇流箱、逆变器、环境传感等信息的本地汇聚，为海量分布式光伏的精准协同调度提供丰富、可靠的数据支撑。

【Abstract】 In order to achieve the goal of carbon peak and carbon neutrality, China's new energy will further develop by leaps and bounds, and continue to be connected to the grid at a rate several times that of electricity load growth, becoming the main power source of the power system. With the widespread access of high proportion distributed photovoltaic, it is also a great challenge to realize its "considerable, measurable and controllable" communication access mode. The refore, a kind of AC-DC carrier fusion technology is proposed to complete the local aggregation of the components, confluence boxes, inverters, environmental sensing and other information of multiple distributed photovoltaic stations in the transformer station area, realize the full coverage of photovoltaic system signal monitoring, and provide rich and reliable data support for the precision collaborative scheduling of massive distributed photovoltaic.

【关键词】 双碳”目标；新型电力系统；分布式光伏；交直流载波融合

【Keywords】 "double carbon" target; new type power system; distributed photovoltaic; AC / DC carrier fusion

【作者】

蒋维：云南电力调度控制中心

【来源】 2022年中国电机工程学会年会论文集

所属合集

© All Rights Reserved by 中国电机工程学会 版权声明

访问信息

【浏览数： 15】

【收藏数： 0】

【购买数： 0】

【下载数： 1】