

基于绝缘导线束的低压配电网模式

Two novel power supply modes for low-voltage distribution network based on the structures of bundled conductors

投稿时间: 2005-9-6 最后修改时间: 2005-11-11

稿件编号: 20060628

中文关键词: 绝缘导线束; 电气性能; 低压配电网; 供电模式

英文关键词: bundled insulated conductors; electric properties; low-voltage distribution network; power supply mode

基金项目: 原国家电力部 [水农电(1997)18号] 重点科技资助项目

作者	单位
朴在林	沈阳农业大学信息与电气工程学院, 沈阳 110161
张志霞	沈阳农业大学信息与电气工程学院, 沈阳 110161
孙国凯	沈阳农业大学信息与电气工程学院, 沈阳 110161
张秀然	沈阳农业大学信息与电气工程学院, 沈阳 110161
周启龙	沈阳农业大学信息与电气工程学院, 沈阳 110161

摘要点击次数: 178

全文下载次数: 64

中文摘要:

借鉴国外的经验,研究了四芯、三芯、二芯的绝缘导线束新线材,与国外类似产品绞合式导线束相比,具有生产工艺简单、寿命长、节省材料等优点。基于绝缘导线束的特点研究和实施了三相配电变压器配合四芯绝缘导线束供电和低压侧中间抽头的单相配电变压器配合三芯绝缘导线束供电的两种模式,分别在沈阳、内蒙农村电网安全稳定运行了7年及4年。该研究成果为今后中国农村低压网的改造与建设探索了一条新路子。

英文摘要:

The new wire materials of bundled insulated conductors with two, three and four cores were studied under the guidance of scientific documents abroad. The developed wire materials have the properties of simpler craft, less material and longer life in comparison with the related foreign products. The two power supply modes for low-voltage distribution network were designed and implemented based on the characteristics of the new bundled insulated conductors. One model is with four-core bundled insulated conductors in three-phase transformer, which has been functioning safely in Shenyang of Liaoning province for seven years, and the other is with the three-core bundled insulated conductors that two cores act as lines, and one core acts as neutral in a single-phase transformer, which has been running safely for four years in Chifeng of Inner Mongolia Autonomous Region. The outcome of this research will make a new way for the construction and improvement of our rural low-voltage distribution network in the future.

[查看全文](#)

[关闭](#)

[下载PDF阅读器](#)

您是第607236位访问者

主办单位: 中国农业工程学会 单位地址: 北京朝阳区麦子店街41号

服务热线: 010-65929451 传真: 010-65929451 邮编: 100026 Email: tcsae@tcsae.org

本系统由北京勤云科技发展有限公司设计