

赖艳萍,张志刚,魏 璠,张丽璐.北方农村典型住宅的能耗比较分析[J].农业工程学报,2011,27(13):12-16

北方农村典型住宅的能耗比较分析

Comparative analysis on energy consumption of typical residence in rural areas of Northern China

投稿时间: 1/10/2011 最后修改时间: 2/5/2011

中文关键词: [能源效率](#) [调查](#) [研究](#) [农村住宅](#) [寒冷地区](#) [建筑能耗](#)

英文关键词: [energy efficiency](#) [surveying](#) [research](#) [rural residence](#) [cold areas](#) [energy saving](#) [building](#)

基金项目: 国家“十一五”科技支撑计划课题“住宅节能通用设计图集编制及相关技术规程研究”(2008BAJ08B12-04)。

作者	单位
赖艳萍	天津城市建设学院, 天津 300384
张志刚	天津城市建设学院, 天津 300384
魏 璠	天津城市建设学院, 天津 300384
张丽璐	天津城市建设学院, 天津 300384

摘要点击次数: 173

全文下载次数: 64

中文摘要:

为了进行中国北方农村节能型住宅设计, 对中国北方寒冷农村地区的建筑能耗进行分析。选取兰州农村地区的典型住宅, 分析不同门窗形式、墙体材料对建筑能耗的影响; 选取中国北方不同的24个典型寒冷地区, 分别进行了典型住宅的采暖季设计热负荷、平均热负荷及采暖期累计热负荷的计算, 得出影响能耗主要的因素, 并进一步确定了北方寒冷地区农村的最大能耗和累计能耗, 为进行农村住宅节能型结构及材料的研究提供基础。

英文摘要:

The purpose of this paper is to carry out design of energy-efficient houses in rural areas, and analysis on building energy consumption in cold rural areas of northern China. The typical residence was selected in rural areas in Lanzhou, and the impacts of different forms of doors and windows, and wall materials on the building energy consumption were analyzed; 24 different typical cold areas in northern China were selected, and the typical residence design heat load, the average heat load, and cumulative heat load in heating season were calculated. The main factors affecting the energy consumption were get, and the largest energy consumption and cumulative energy consumption in cold rural areas in northern Chins were further identified, so as to provide basis for the research of energy saving structure and materials of rural residence.

[查看全文](#) [下载PDF阅读器](#)

[关闭](#)

您是第3127431位访问者

主办单位: 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: 100125 Email: tcsae@tcsae.org
本系统由北京勤云科技发展有限公司设计