ISSN1004-7948
CN21-1115/TK

节能

ENERGY CONSERVATION

1
2013

第32卷 第01期（总第364期）

ISSN 1004-7948
01>

节能（月刊）

Jieneng

中国核心期刊（遴选）数据库全文收录期刊
中国学术期刊综合评价数据库（CAJCED）统计源期刊
中国期刊全文数据库（CJFD）全文收录期刊
中文科技期刊数据库全文收录期刊
1981 年创刊　第 32 卷第 1 期（总第 364 期）
2013 年 1 月 15 日出版

主　管：辽宁省科学技术厅
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出版：《节能》杂志社　　**邮编**：110181
地址：沈阳市高新技术产业开发区浑南二路 8 号
网址：www.china-energy-conservation.com
印刷：沈阳中科印刷有限责任公司
订阅：全国各地邮政局
国内发行：辽宁省邮政公司报刊发行公司
国外发行：中国国际图书贸易总公司
邮发代号：8-150　**国外**：M5170
刊号：ISSN1004-7948 / CN21-1115/TK
广告经营许可证号：2101001500026
开户名：辽宁省科学技术情报研究所
开户行：中国建设银行沈阳建行鲁美支行
账号：21001383908052504526
定价：每期 10.00 元　全年 120.00 元

目　　次

Energy Conservation(Monthly)
Sponsor: Liaoning Provincial Institute of Science and Technology Information
Publisher: Energy Conservation Magazine Publishing House
Chief Editor: JIN Na
Address: No. 8, Hunnan 2 Road, Shenyang high-tech industrial development zone, Shenyang City, Liaoning Province, China
Post Code: 110181

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Jan. 2013 Vol. 32, No. 1 Total Issue No. 364

The comparative analysis of energy saving reconstruction methods of a heating area

ZHANG Xiu- juan, WANG Guo-lei
(Shandong Yingcai University, Ji'nan 250104, China)

Abstract: A new regional's heating method of a heat transfer station is discussed. Two kinds of programs are suggested. One is indirect connection, the other is mixing heating. Giving two kinds of program design description and comparing the two programs, the mixing heat has better efficiency and effect.

Key words: heating mode; indirect heating; mixing heating; stable operation; energy saving and emission reduction

The drawing and analysis application of pressure diagram in heating network

WANG Xia-ran, ZHANG Zeng-gang, ZHOU Yue-qin
(School of Thermal Engineering, Shandong Jianzhu University, Jinan, 250101, China)

Abstract: Based on brief introduction of the basic principles and functions of pressure diagram, the pressure diagram of one heating system model is plotted. And the information reflected by the pressure diagram is analysed, so that it can express the importance of pressure diagram in sloving problem of heating system.

Key words: heating network; pressure diagram; hydraulic regime

Application of the online transportation technology in blast furnace blower

LI Yun-hua
(Xuanhua iron and steel Co. power plant, Zhangjiakou 075105, China)

Abstract: The blast furnace blower online transportation control thought, operation mode, safe operation and other aspects are introduced in detail. Breaking the off-line transportation way in blast furnace blower is major breakthrough and worthy to popularization and application of the metallurgical industry.

Key words: blast furnace blower; transportation technology; surge control

Application of tower diameter changing in resin fractionation

ZHONG Yong-feng
(China Petroleum Engineering & Construction Corporation Dalian Company, Dalian 116000, China)

Abstract: Through the heat recovery of condensation water in oil refining plant and the water treatment recycling, it can reduce the energy consumption of production. In this project, according to the different quality of condensate water, different process is adopted. Specifically, the static oil separation process is used to remove the suspended oil in the condensation water. In addition, the emulsified oil and suspended oil adsorption, iron removal, heat recovery, the number of ion (anion and cation) and conductivity value overweight treatment, deoxygenization treatment also can be achieved. It make the index of condensation water after treatment reach deoxygenated water index, meeting the boiler feed water requirement. To ensure the effective regeneration of the failure resin, effective separation technique, equipment and control mode are adopted to deal with failure resin based on the technique of Na^+ exchange process. So the process water is qualified and the resin recruitment reduces. Through the practical production operation, the process results reach the design requirements and achieve a satisfactory effect.

Key words: resin; separate; tower diameter changing

Wind and solar in the northern oilfield's best ratio program

HU Cui-hua, WANG Kan-hong
(Survey and Design Institute of Xinjiang oil (limited company), Karamay 834000, China)

Abstract: The power structure in China is unreasonable. Based on the analysis of new energy industry in Xinjiang, the existing problems were analyzed. Using the intermediate interpolation approximation algorithm to analysis the new energy optimal matching scheme and the amount of carbon savings. Results show that, in the future development, wind energy continues to play an important part in wind and solar power generation system.

Key words: scenery complementary power generation; intermediate interpolation approximation ratio; simulation; carbon emissions

Energy-saving operation and reformation of steam boiler in cigarette factory

ZHENG Dong-sheng, GAO Xian-jun
(Xinzheng Cigarette Factory of China Tobacco Henan Industrial Co. Ltd., Xinzheng 451150, China)

Abstract: Because of wide steam load fluctuating ramge, diffecult opercrtion and lower operation effeciang in the course of cigarette production, the operation model of energy conservation used two boiler is proposed By means of advanced energy-saving technology, thermal deaerator was removed. The way of surface drainage is reformed, flashed steam of surface drainage and cooling water of sampling cooler recycled, great economic and social benefit are obtained.

Key words: cigarette factory; steam boiler; operation model of energy conservation; energy-saving reformation

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