

CODEN: DKSIAF ISSN 1671-9913
CN 11-4908/TK

电力勘测设计

ELECTRIC POWER SURVEY & DESIGN

中国电力规划设计协会主办

建设行业优秀期刊
电力行业优秀期刊

基于层次分析法的EPC总承包物资采购评标权重选取
激光雷达在输电线路巡线中的应用
700 °C超超临界机组四大管道选材分析及设计优化
地下管线周围环境振动监测及预警技术理论分析
新三管高压旋喷灌浆在唐家渡围堰中的应用
生物质成型燃料的炉前给料方案分析

ISSN 1671-9913



9 771671 991225

2022. 6

中国能源建设集团有限公司专刊

目次

管理论坛

基于层次分析法的 EPC 总承包物资采购评标权重选取 王海宁, 王正莹, 慕子煜, 李泽洲 01

电网设计

激光雷达在输电线路巡线中的应用 屈年赦, 白晶石, 曹铁军 06
长余辉发光材料在配电网安全标志中的应用 金钰, 符斌, 杨晓龙, 吕鸿宇 10

火力发电

700 °C 超超临界机组四大管道选材分析及设计优化 罗建松 14
新型钢管混凝土 X 支柱在空冷塔工程中的设计应用 石天琪, 闫杰, 张宏飞, 侯宪安, 吕兰 20
燃煤电站湿烟气接触式冷凝换热计算及性能分析 王巍, 衡德峰, 彭红文, 李少华, 侯全辉 26
火电厂抽汽储能深度调峰技术研究 王坚, 王辉 30
1 350 MW 超大容量空冷机组除氧器选型研究 赵洪伟, 刘利 35
350 MW 超临界旋流燃烧锅炉低负荷燃烧优化试验研究
..... 巩时尚, 雍绍平, 李韩亮, 耿伯儒, 梁锐, 殷德祥 41

工程勘测

地下管线周围环境振动监测及预警技术理论分析 吴朝峰, 李科舟, 范文峰, 宋祎昕, 宋孝丰 47

数字化

输电线路工程三维地理信息平台的研究及应用 张瑞, 陈晓龙 52

水力发电

水电站高埋深洞室群渗压计施工技术研究 王晓佳, 靳伟强 58
新三管高压旋喷灌浆在唐家渡围堰中的应用 吴仍芳, 李筱波, 倪华 66
小转弯半径大断面引水隧洞上平段衬砌施工技术 邱勇, 余文飞 71

新能源

生物质成型燃料的炉前给料方案分析 匡辰 78
风机叶片高空组合安装技术 李力强 83

项目介绍

红水河上的“守护神”——岩滩水电站简介(封二)

CONTENTS

Management Forum

- Selection of Evaluation Weight of EPC Material Procurement Based on AHP
..... *WANG Haining, WANG Zhengying, MU Ziyu, LI Zezhou* 01

Power Grid Design

- Application of Lidar in Transmission Line Operation and Maintenance
..... *QU Nianshe, BAI Jingshi, CAO Tiejun* 06
- Application of Long Persistence Luminescent Materials in Safety Signs of Distribution Network
..... *JIN Yu, FU Bin, YANG Xiaolong, LYU Hongyu* 10

Thermal Power

- Material Selection Analysis and Design Optimization of Four Pipelines of 700°C Ultra -supercritical Unit
..... *LUO Jiansong* 14
- Design and Application of of New Type Concrete-Filled Steel Tube X-shaped Diagonals in Dry Cooling Tower Project
..... *SHI Tianqi, YAN Jie, ZHANG Hongfei, HOU Xianan, LYU Lan* 20
- Anlysis of Heat Exchange Calculation and Performance for Direct-contact Condensation of Wet Flue Gas in Coal-fired Power Plant
..... *WANG Wei, HENG Defeng, PENG Hongwen, LI Shaohua, HOU Quanhui* 26
- Research on the Energy Storage Technique by Steam Extraction from Thermal Power Units used to Deep Load Modulation
..... *WANG Jian, WANG Hui* 30
- Selection of Deaerator for 1 350 MW Super-capacity Unit
..... *ZHAO Hongwei, LIU Li* 35
- Experimental Study on Low-load Combustion Optimization of 350 MW Supercritical Swirl Combustion Boiler
..... *GONG Shishang, YONG Shaoping, LI Hanliang, GENG Boru, LIANG Rui, YIN Dexiang* 41

Engineering Survey

- Theoretical Analysis of Ambient Vibration Monitoring and Early Warning Technology for Underground Pipelines
..... *WU Chaofeng, LI Kezhou, FAN Wenfeng, SONG Yixin, SONG Xiaofeng* 47

Digitalization

- Research and Application of Three-dimensional Geographic Information Platform in Transmission Line Engineering
..... *ZHANG Rui, CHEN Xiaolong* 52

Hydro Power

- Study on Construction Technology of Piezometer in Deeply-Buried Chambers
..... *WANG Xiaojia, JIN Weiqiang* 58
- Application of New Three-pipes High Pressure Jet Grouting in Cofferdam of Tangjiadu Hydropower and Navigation Project
..... *WU Rengfang, LI Xiaobo, NI Hua* 66
- Lining Construction Technology for Top Horizontal Section of Intake Tunnel with Small Turning Radius and Large Section
..... *QIU Yong, YU Wenfei* 71

New Energy

- Analysis on Boiler Feeder Scheme for Biomass Briquette Fuel
..... *KUANG Chen* 78
- High-altitude Combination and Installation Technology of Blade for Wind Turbine Generator
..... *LI liqiang* 83