

中文核心期刊
中国科技核心期刊

ISSN 2096-3203
CN 32-1866/TM
CODEN DGJIAA

电力工程技术

ELECTRIC POWER ENGINEERING TECHNOLOGY

白鹤滩水电站



5

ISSN 2096-3203



万方数据

国网江苏省电力有限公司 主办
江苏省电机工程学会

2021年9月

第40卷 第5期 总第199期

DIANLI GONGCHENG JISHU

2021年9月28日出版

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中国核心期刊(遴选)数据库收录期刊
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电力工程技术

主管单位: 国网江苏省电力有限公司

主办单位: 国网江苏省电力有限公司

江苏省电机工程学会

出版单位: 《电力工程技术》编辑部

编辑部主任: 江 林

值班编辑: 吴 楠

地 址: 南京市江宁区帕威尔路1号

邮 政 编 码: 211103

电 话: 025-86556860(编辑)

025-86558553(编辑)

025-86558020(编务)

传 真: 025-86558020

投稿网址: www.epet-info.com

电子信箱: epet@ijournals.cn

创刊时间: 1982年

发行方式: 国内发行

发行单位: 南京邮政局

邮发代号: 28-305

国内定价: 26.00元

订 阅: 全国各地邮政局(所)

印刷单位: 南京茂华彩色印务有限公司

广告发布登记编号: 广登 32000000224

中国标准连续出版物号: ISSN 2096-3203

CN 32-1866/TM

国际刊名代码(CODEN): DGJIAA

微信公众号:



epet-1982

封面简介:

水能是一种取之不尽、用之不竭、可再生的清洁能源。水力发电将水的势能转变为水轮机的机械能,再以机械能推动发电机产生电能。

白鹤滩水电站位于四川省宁南县和云南省巧家县境内,是金沙江下游四座梯级电站的第二级,是当今世界在建规模最大、单机容量最大、装机规模全球第二大的水电站,是“西电东送”国家重大工程。总装机容量1 600万kW,仅次于三峡工程,单机容量100万kW。电站于2017年8月全面开工,2021年6月首批机组发电,计划于2022年7月全部机组投产发电。电站与三峡工程、葛洲坝工程,以及金沙江乌东德、溪洛渡、向家坝水电站一起,构成世界最大清洁能源走廊,改善能源结构、助推我国实现“碳达峰、碳中和”目标。

Electric Power Engineering Technology

Bimonthly Journal of State Grid Jiangsu Electric Power Co.,Ltd.

Vol.40 No.5 (Ser.199)

September 28, 2021

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Competent Authorities State Grid Jiangsu Electric Power Co.,Ltd.	Publication Number ISSN 2096-3203
Sponsor State Grid Jiangsu Electric Power Co.,Ltd. Jiangsu Society of Electrical Engineering	CODEN DGJIAA
Publisher Editorial Department of Electric Power Engineering Technology	Web Site www.epet-info.com
Chairman SHEN Guorong	E-mail epet@ijournals.cn
Editor in Chief LI Qun	Tel 025-86556860, 86558553, 86558020
Add No.1 Power Road, Jiangning District, Nanjing	Fax 025-86558020
Zip Code 211103	Distributed by Nanjing Post Office
	Subscription Code 28-305
	Subscription Post Offices Across China

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