

Monday, August. 14, 2023

Laining hotel

Room Gui Zhou Ting (贵州厅) - 6th floor

10:00-12:00 Session: Storage Pumps Chair: Huan Cheng (Dongfang Electric Machinery Company Limited)			
Paper ID	Time	Paper Title	Paper Authors
Invited Lecture	10:00-10:30	Technology for flexible operation: the variable speed pumped turbine in Chunchangba PSP—the first full-size frequency converter VSU in China	Long Meng (China Institute of Water Resources and Hydropower Research, China)
302	10:30-10:45	Electromagnetic design and analysis of super-capacity high-speed pumped storage unit	Tao Liu, Hai Huang, Kai Lin, Zan Zhou, Liang Liu
303	10:45-11:00	Analysis on turning and swing adjustment of super-high head, large capacity and high speed pumped storage unit	Tao Liu, Qian Peng, Fei Ye, Xie Zhang, Jingwei Sun
304	11:00-11:15	Study on ventilation and cooling technology of super-large capacity high speed storage unit	Liang Shi, Xiaofeng Yu, Tao Liu, Zhengxin Cao
205	11:15-11:30	Research on diffusion flow characteristics of water inlet/outlet of side pumped storage power station	Yueyang Zheng, Dongyun Guo, Jie Wei
281	11:30-11:45	Analysis and Discussions on High Insulation Performance of 20 kV Generator Motor Stator in the Large Pumped Storage Unit	Z Zhou, T Liu, H Y Chen, Z X Cao, H C Li
12	11:45-12:00	Research on multi-condition and multi-objective control of pumped storage unit optimized by improved multi-objective particle swarm optimization algorithm (OL)	Xiaoping Jiang, Tianning Xiu, Hao Yu
12:00-12:15 Coffee Break			
12:15-14:00 Session: Storage Pumps Chair: Huan Cheng (Dongfang Electric Machinery Company Limited)			
61	12:15-12:30	Research and Application of Key Technologies for Ultra High Pressure Grouting of Yangjiang Pumped Storage Power Station in Guangdong Province (OL)	Yunli Shi, Xueshan Liu, Yufei Huang, Yueyang Zheng, Yuezhi Wang
75	12:30-12:45	Analysis and Application of Suppression Measures for Protection Misoperation Caused by Excitation Inrush Current of 15.75kV Transformer (OL)	J J Dong, T Yu, C J Chen, Y D Huang, S H Zhong
101	12:45-13:00	Talking about the impact of digital twins on the construction of pumped storage power stations (OL)	Liang Liu, Zan Zou, Zhengxin Cao, Xie Zhang
102	13:00-13:15	Analysis and treatment about Temperature Rising and Thermal stability of Guide Bearing of Hydraulic Power Unit (OL)	Zhiqiang Wang, Hongyu Chen, Songwei Zhang, Liang Liu, Zan Zhou
170	13:15-13:30	Practice of first water filling operation of super-high head diversion channel in YangJiang storage power station (OL)	Peijiang Zhen, Mingzhi Cai, Le Wang
287	13:30-13:45	A Mechanism for Efficiently Controlling the Safety Risks of Pumped Storage Power Station Construction (OL)	H B Wang, Z J Zhang
288	13:45-14:00	A Grounding Resistance Monitoring Technique for Improved Construction Electricity Safety in Pumped Storage Power Station (OL)	H B Wang, Z J Zhang
14:00-16:00 Lunch			
16:00-18:00 Session: Storage Pumps Chair: Zhigang Zuo (Tsinghua University)			
292	16:00-16:15	Pumped Storage Hydropowers Network Planning: A Theoretical and Technical Review	Haoxing Yu, Yine Chen
25	16:15-16:30	Prediction of residual breakdown voltage of main insulation of generator stator bars based on BP neural network	Xiangdong Liu, Hang Yang, Liangliang Nie, Qing Li, Peng Ling, Yakang Zhao, Yaling Jia, Weiyu Wang, Junjie Dong, Yao Jin, Haiyun Jin
189	16:30-16:45	Research and Application of Reliability-centered Maintenance Strategy for pumped storage unit	Xiaofeng Huang, Wei Huang
194	16:45-17:00	Research and Application of fixed value setting optimization of generator circuit breaker failure protection of pumped storage power station	Jianwei Zhou, Wei Huang, Dehua Li

314	17:00-17:15	Research and Application on optimization of intensive management mode of operation to meet the rapid development of pumped storage under carbon peak and neutralization	Wei Huang, Dehua Li
318	17:15-17:30	Research and Application of operation mode of centralized control center of multiple pumped storage power stations	Dehua Li
283	17:30-17:45	Analysis and research on the influence of stress relief structure on the grouting hole weld of hydraulic and hydropower penstock (OL)	Zhengxin Cao, Feng Yang, Xie Zhang, Zan Zhou, Liang Liu
17:45-18:15 Coffee Break			
18:15-20:00 Session: Storage Pumps Chair: Zhigang Zuo (Tsinghua University)			
69	18:15-18:30	Research and application of individual emergency device for the SCADA system of hydropower station (OL)	Yan Liang, Mingzhi Cai, Peijiang Zhen, Zhanjun Guo
78	18:30-18:45	Optimization and Improvement of Three-phase Asynchronous Motor Soft Starter Control Circuit (OL)	Yao Jin, Junjie Dong, Xiongwei Yang
164	18:45-19:00	Research on hydraulic characteristics' sensitivity analysis of the hydraulic inclined shaft turning (OL)	Xuan Zhang, Jie Wei, Han Wu, Lu Zhao
165	19:00-19:15	The layout design of water diversion system in Zhaoqing Langjiang Pumped Storage Power Station based on front well drill method (OL)	Jingwei Sun, Han Wu, Lu Zhao, Yan Shi
59	19:15-19:30	Thoughts on the transformation and development of mechanized and intelligent construction of pumped storage power stations under the dual carbon goal (OL)	Xueshan Liu, Yufei Huang, Yunli Shi, Yueyang Zheng
20:00-22:00 Dinner			

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