

<<农村水电管理知识百问>>

图书基本信息

书名：<<农村水电管理知识百问>>

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内容概要

浙江省具有较丰富的水电资源。

新中国成立以来，全省农村水电从无到有，从小到大，走过了五十多年的发展历程，截至2008年底，已建成投产农村水电站3200余座、总装机容量近340万千瓦，为提供清洁电力能源、防洪减灾、增加地方财政收入、改善农村基础设施等发挥了显著成效，为加快山区农村经济社会发展做出了巨大贡献。在新的历史时期，党中央高度重视“三农”工作，大力推进资源节约型、环境友好型社会建设，农村水电作为可再生能源工程和农村、农业的基础设施，又迎来了新的发展机遇和广阔的发展空间。

“十一五”以来，针对全省农村水电面广量多、地处偏远、新老不一、体制多元的实际，我厅进一步规范资源开发行为，加强建设项目监管，提升行业安全管理水平，努力实现从重建轻管向建管并重转变，促进我省农村水电可持续发展。

由省水电管理中心组织编写的《农村水电管理知识百问》一书，涵盖了水能资源管理、工程建设管理、运行管理等各方面知识，是一本内容翔实、通俗实用的农村水电行业管理工具书，对于各级水电行政主管部门加强水电管理具有实际指导作用。

同时，也可供水电资源开发投资者，农村水电生产经营单位负责人、管理人员、运行检修人员参考阅读。

相信本书的出版发行，对增强我省农村水电行业队伍素质，规范和提升行业管理水平，实现农村水电科学发展，一定会起到很好的促进作用。

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书籍目录

Chapter One Water Power Resources Management
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章节摘录

版权页：137.How to guarantee the safety for adjustment of active / reactive power if the rural power station with low-voltage unit has no automatic excitation regulator ?

For the low-voltage unit with no automatic excitation regulator and speed governor , all the load of the 10kV line will be diverted to the unit once the line is out of power supply , and over current is caused to the generator. Therefore , the over-current protection of the generator should be functioning in time to shut it down by tripping. First , Regulation of reactive power. The regulation of excitation before grid connection should be gradually increased , if over regulated , the generator terminals will have over voltage. For regulation of excitation after grid connection , the reactive power increases with the exciting current , and decreases when the exciting current decreases. If the exciting current is regulated to be too low , the generator will be under phase advance operation , and the power factor is a negative value at the time. Generally , phase advance operation is not allowed for the generator. Under the phase advance operation , current of the stator should be kept a close eye on. Otherwise , if the current is overlooked after grid connection with reactive power , it will cause the following two situations : (1) Decrease of reactive load of the grid will cause rise of the voltage , partial exciting current of the generator preliminary for reactive power will be used for producing of terminal voltage. The reactive power of the unit decreases automatically and the power factor increases.

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编辑推荐

《农村水电管理知识百问》：Based on existing rural hydropower management standards and regulations , this book gives detailed answers to water resources management , rural hydropower project tax management , rural hydro power equipment management and rural hydro power station emergency management. This book could be taken as suitable references to the administrative officials in water management , engineering and technical personnel , and other rural hydro power operators in electrical and mechanical management.

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