

基于CIM标准的多级电网模型集成分析

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摘要

电力系统调度一般采用分级电网监控方式。各级调度系统只建立监控范围内的电网模型, 外网部分采用等值处理。文章基于CIM标准提出对各级调度系统的电网模型进行集成的方法。该方法通过分析上下级调度系统模型之间的关口电网, 对分散的各级电网模型进行合并, 形成一个完整的区域电网结构描述。在此基础上提出建立一个分散式模型集成的在线系统, 实现全网的分散维护、集中建模。测试表明, 该方法可以有效地形成完整详细的全网模型。

关键词 [CIM标准; 模型集成; 关口电网; 等值模型](#)

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Analysis on Integration of Multilevel Power Network Model Based on CIM

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Abstract

In general, hierarchical monitor and control manner is adopted in power system dispatching centres. In individual dispatching centre, the detailed power system model is built only for the power network within the monitored area, and the remainder power network external to the monitored part is dealt with by equivalent way. Based on CIM standard, the authors present a method to integrate the power network models belonging to different dispatching hierarchies. By means of analyzing the gateway power network between superior dispatching system and each subordinate system, the power network models decentralized in all dispatching hierarchies are effectively integrated to form a thorough and detailed description of regional power network. On this basis, it is also proposed to establish an on-line system to integrate the decentralized models to realize decentralized maintenance and centralized modeling of the whole power network. Test results show that by use of the presented method a thorough and detailed model of the whole power network can be built effectively.

Key words [CIM standard; model integration; gateway network; equivalent model](#)

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