

关于云南省德宏傣族景颇族自治州水电站 上网有效电量系数的说明

根据我公司电力调度和电力平衡结果分析,同时根据近几年州内所有中小水电站有效电量的实际水平进行分析后得到,我州内水电项目上网有效电量系数为 80%-90%,有效电量系数的产生主要有以下几方面的原因:

一、我州电网水电项目以无调节能力的电站居多,由于州内输电网结构十分薄弱,电网吸收及输送能力有限,导致丰、枯出力相差较大,丰水期电力电量富余,会存在弃水损失。

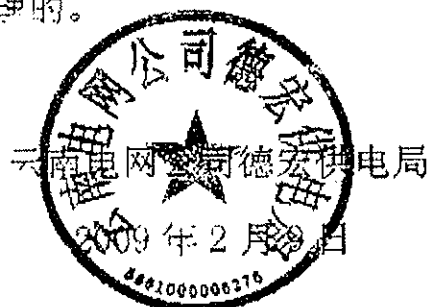
二、电网峰谷差越来越大,调峰问题日益突出,为满足电网调峰要求,迫使水电站丰水期弃水调峰。

三、本地工业负荷较少,自发电量无法就地平衡。新投产电站多余电量送给大电网,输送距离长,线损较大。

四、电网建设速度滞后于新建成投产水电站增加的容量,发电受限制的矛盾在较长一个时期内存在,最近几年有效电量有可能还有减小的趋势。

因此,我州内内水电项目不能周年满负荷运行,选取有效电量系数约 80%-90%进行设计是科学合理的。

特此说明



The Explanation of the Coefficient of effective electricity for Hydropower Stations in Dehong Dai-Jingpo Autonomous Prefecture in Yunnan Province

According to Electricity Dispatch and Electricity Balance Analysis, and the actual coefficient of effective electricity of middle and small hydropower stations in Dehong Dai-Jingpo Autonomous Prefecture, the coefficient of effective electricity for hydropower stations in local grid is about 80%-90%. The reasons of the coefficient of effective electricity are listed as follows:

1. Most hydropower stations in local grid are stations without adjusting capability, and the local grid is vulnerable, the absorption and transmission capacity is very limited. Therefore, the electricity generated by hydropower stations in rainy season can not be all connected to the grid. Surplus water resources will be lost.
2. The peak-valley difference of this grid is getting larger, and peak-load dispatching problem is becoming more severe. To satisfy the peak-load dispatching requirements, this power station has to lose surplus water resource during rainy seasons.
3. The industrial consumption in local area is not large, and the electricity is surplus especially in rainy season. Surplus electricity of newly built hydropower stations have to transmit to large grid, the transmitting distance is long with big line loss.
4. The development of local grid is lag behind the addition capacity of hydropower stations, the limitation of hydro generation will be existed for a long time. The coefficient of effective electricity has the tendency to be decreased in these years.

Therefore, the hydropower stations in local grid can not operate under full load all through the year, the selection of coefficient of effective electricity of 80%-90% is reasonable.

Best regards

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