

عنوان مقاله:

Review of ACCC composite conductor in ۲۰ kV overhead line distribution network

محل انتشار:

سومین کنفرانس منطقه ای سیرد (سال: 1393)

تعداد صفحات اصل مقاله: 7

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خلاصه مقاله:

It seems the overhead lines have the main part of electricity distribution network in Iran, according to the comparative data of the Ministry of Energy. Moreover, ACSR is the usual used conductor in all transmission overhead lines. Due to rapid growth of electricity consumption of residential and industrial clients, there is a need to increase capacity in power stations and distribution network, which of course requires increasing the conductor cross section. To increase the available conductor cross section, some mechanical recalculations and changes in configuration of current network including different tension in installed towers in angles and end sections and line equipments are necessary, which installing the new towers in addition to increasing the overall cost of the project it may involve some technical, social, political issues. In this study, the technical and economical comparison of replacing the composite ACCC conductors instead of ACSR without any change in line arrangement and just replacing a conductor with higher capacity is discussed. Therefore, the software which is developed in MCAL (Mechanical Calculations) is used for the line mechanical calculations

کلمات کلیدی:

ACCC conductor. ACSR conductor. composite. mid-voltage overhead line network

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