

عنوان مقاله:

CLIMATE CHANGE EFFECTS ON ELECTRICITY LOSS DURING TRANSMISSION AND DISTRIBUTION, IRAN
CASE STUDY

محل انتشار:

ششمین کنفرانس بین‌المللی مسائل فنی و فیزیکی در مهندسی قدرت (سال: 1389)

تعداد صفحات اصل مقاله: 6

نویسندگان:

N Rahimi - *Institute for Meteorology, Free University, Berlin, Germany*

U Cubasch - *Institute for Meteorology, Free University, Berlin, Germany*

E Reimer - *Institute for Meteorology, Free University, Berlin, Germany*

H Huebener - *Hessian Agency for Environment and Geology, Hessian Center on Climate Change, Wiesbaden*

خلاصه مقاله:

The stresses of the network will increase with climate change. This will increase the number of faults in current network and at the same time total duration of faults, if improvements for reliability will not be increased. It is well known that electrical losses are an inevitable consequence of the transfer of energy across electricity networks. Many different parameters have influence on loss and one of them is climate parameters and conditions. In this research we studied the effects of climate changes on transmission and distribution electricity loss and three climatic parameters (Humidity, Temperature and Pressure), for Islamic Republic of Iran. Simulations of five models participating in the EU-FP6 project ENSEMBLES (BCM2, CNRM-CM3, EGMAM, HadGEM1, and ECHAM5) were used to represent climate parameters for time intervals 1980 till 1999 for control / historical period and 2080 till 2099 for projection simulation. We find that for Iran which is located in arid and semi arid area at this time, the increasing temperature and pressure .of ambient air due to climate change will affect electricity loss

کلمات کلیدی:

Climate Parameters, ENSEMBLES Model, Electricity Transmission Loss, Electricity Distribution Loss, Electricity Loss Projection, Transfer Functions, Clustering Analysis

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