

عنوان مقاله:

A new approach for Reliability Evaluation in distribution network with penetrated Renewable Energy Resources

محل انتشار:

پنجمین کنفرانس انرژی های تجدیدپذیر و تولید پراکنده ایران (سال: 1395)

تعداد صفحات اصل مقاله: 5

نویسندگان:

m navidi - *Guilan Regional Electric Company, Rasht, Iran*

h afrakhte - *Electrical Engineering Department, Guilan University, Rasht, Iran*

amir Shabanzadeh - *Electrical Engineering Department, Mehrastan University, Astaneh-ye Ashrafiyeh, Iran*

خلاصه مقاله:

Due to high penetration of Renewable Energy Such as photovoltaic and wind resources , this paper presents a new method for Reliability evaluation in active distribution networks. First, the renewable unit models are developed by considering the component failure rates and uncertain nature of renewable energy Sources. Next, we use Fuzzy c-means clustering Method to obtain the required number of generation States from the hourly- data. The Markov process is used to obtain both wind and P.V models. Then, these renewable models are added to a radial distribution System and different reliability indices are calculated

کلمات کلیدی:

Reliability evaluation, Markov models, C-means clustering, wind farm, Photovoltaic farm

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/657643>

