

The location of electric vehicle parking (EV) for increasing the reliability of distribution systems ,by using genetic algorithm and Relying on urban information (GIS)

Morteza Jarestan*,Dr.Navid Ghardashkhani,

Given the widespread use of electric vehicles in the near future, parking of electric vehicles is considered as scattered sources of production and electrical energy storage. The locating of these parking lots for power distribution companies the location point of view of, improvement of reliability indices, reliable and stable electricity supply and, finally, maintenance of subscriber satisfaction is very important. In this research, we first introduce a variety of dispersed production sources and their advantages and disadvantages After that, the parking of electric vehicles is described as a source of dispersed production . In this thesis, in order to improve Undistributed energy reliability index and the total annual losses, the location of electric car parking is carried out by using genetic algorithm in the presence of wind resources. And The performance of this proposed method has been investigated with MATLAB programming on the IEEE standard 33 buse system.

Keywords : Keywords: Location, Car Parking, Reliability, Loss, Genetic Algorithm.

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