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Optimal planning of distribution substation locations and sizes â€” model and algorithm

Dai Hongwei ... Xin Rui

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Abstract

A new method is presented in this paper to solve the optimal planning problem of distribution substations. The procedure proposed here does not require candidate substation locations and can automatically select the optimal sizes, locations and service areas of substations in power distribution systems. In addition, an effective solution algorithm is also presented.

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Keywords

expansion planning; distribution expansion; mathematical programming

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