

## عنوان مقاله:

Impacts of tap-connecting generators to transmission lines on the ground fault protection performance

## محل انتشار:

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## خلاصه مقاله:

Advantages of distributed generation (DG) connected to the distribution network are well known and technical issues are discussed broadly in the related literatures. But the direct connection of distributed generators to transmission network so called tap-connected generators are less studied on issues and benefits. Some of the utilities in the world provide possibility of the tap-connecting generators to their transmission lines. The lowest cost interconnection is a transmission line tap. On the other hand this type of connection has impacts on the transmission system such as: reduction of the transmission system reliability, disturbance in phase and ground fault protection performance, and temporary overvoltages. Selecting of HV side grounding method of interconnecting transformer, involves tradeoff between temporary overvoltages and ground fault protection desensitization. In this paper impacts of tap-connecting generators to transmission lines are studied by performing simulation and also available cost-effective solutions are provided.

## کلمات کلیدی:

Tap-connected generators, Generation interconnection, protection desensitization, Temporary overvoltages

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/396184>

