

عنوان مقاله:

CONVERTION HVAC INTO HVDC OF POWER TRANSMISSION LINES WITH USING VOLTAGE SOURCE
CONVERTER

محل انتشار:

بیست و نهمین کنفرانس بین المللی برق (سال: 1393)

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خلاصه مقاله:

The conversion of existing AC lines into DC lines represents an interesting alternative for upgrading the power carrying capability for the existing rights of way and at the same time obtaining other added values. This way, these conversions can contribute to the creation of the HVDC Super Grid, which is one possible option to integrate massive renewable energy sources. With this objective, it is necessary to adapt the AC lines to the requirements of DC. The conversion can be carried out changing the head of the line towers or maintaining the towers structure and just making the minimum changes. This paper presents an analysis of the different configurations available for converting AC lines into DC lines and also includes a new proposal for configuration. Finally, a comparison of the presented configurations, in terms of power increase and losses is included.

کلمات کلیدی:

Conversion; Distribution lines; HVAC; HVDC; Voltage Source Converter

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