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AC vs. HVDC Back to Back Interconnection cost benefit analysis

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Abstract:

In this article was examined the technical and economic potential of connecting the high voltage electricity networks of three countries with a new high voltage transmission line. The analysis investigated options and technical recommendations for the optimal configuration a 750 kV transmission corridor. In doing so, it was recognized reconnection of the corridor holds the promise of improving energy security and increasing electricity trade between them by providing a new connection between the synchronous zone and the continental region of Europe. It was calculated the maximum regional generation cost savings resulting from the exchange of electricity via a new interconnecting line as described in each scenario.

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