

First South East European Regional CIGRÉ Conference

SEERC

Portoroz, Slovenia, 7—8 June 2016

Estimating risks for Italian Energy Sector from Projected Climate Change



Research and operational activities to cope with wet-snow impacts on overhead power lines in current and future climate over Italy

Weather-related damages over power lines





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ENSEMBLES and Med-CORDEX confirm an increase risk for droughts, floods and wind storms in the next decades.

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Euro-CORDEX Future scenarios: wet-snow load changes (%) between 2021-2050 and 1971-2000



Results:

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- Alps (high altitudes): a very likely increase of wet-snow load of about 70-100 %
- Po Valley: a decrease of about 20-40 % is expected with a medium confidence
- Central and Southern Italy: a decrease of about 10-20 % with low confidence
- Central and Northern Apennines: signal almost absent

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