

Will cross-border interconnections expand in Colombia?

Cross-border interconnections As described in Section 2, the interconnection capacity with neighbouring countries could expand in Colombia over the coming decades. However, this will depend on several uncertain factors such as the economic situation, politics, market arrangements, demand profiles and the future power mix of the countries involved.

Are electricity storage and interconnections a techno-economic optimisation?

Initially, the technical impacts of electricity storage and interconnections in the power system were examined. Successively, a multi-objective evolutionary algorithm (MOEA) was applied to perform a techno-economic optimisation and identify a set of optimal configurations.

How much CO<sub>2</sub> does the power sector emit per kWh?

This could represent an emission factor of the power sector of approximately 26.5 gCO<sub>2</sub>/kWh and clearly exceeds the target defined by the country during the COP21 by 2030.

A microgrid (MG) is a secondary (low voltage) network capable of supplying part or all the power needed by the connected users. It is composed by solar panels, energy storage devices, ...

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