



# Colombia hs power solutions

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Addressing specific local conditions, operational and planning timescales, power production scenarios, and current sources of flexible solutions can enhance the comprehension of power system flexibility in a real system.

With the flexibility study for the Colombian power system the aim is to be able to answer the following questions: Will the system be able to satisfy the demand peak, avoiding load curtailment? Will the system at all time have the power ramps needed after variable IBR integration? Does the system have enough storage capabilities?

With the flexibility study for the Colombian power system the aim is to be able to answer the following questions: Will the system be able to satisfy the demand peak, avoiding load curtailment? Will the system at all time have the power ...

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Colombia's power system is characterised by large installed capacity for hydropower (70% of total capacity), mostly from plants with significant reservoir capacity. VRE generation capacity, below 1% in 2017, would reach 17% by 2030 under the revised energy plan (UPME, 2018). Additional biomass power by 2030 would account for 3% of capacity.

The Colombian power system is facing a transition from hydro-thermal generation to a diversified mix of hydro, solar, and wind energy. This paper presents an overview of the current situation and the challenges of transitioning to a more sustainable power system.

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Colombia's installed electric power generation capacity currently stands at 17,771 MW, with hydro accounting for 68 percent, gas and coal-fired power plants accounting for 31 percent, and the remaining one percent from wind and solar units. The country's energy matrix is clean but highly dependent on climatic conditions to generate hydro power.

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