

# Assessment of the Impacts of Climate Change on Mountain Hydrology: Development of a Methodology Through a Case Study in the Andes of Peru (World Bank Studies)

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Climate change is beginning to have effects on climate, weather and resource availability in ways that need to be anticipated when planning for the future. In particular, changes in rainfall patterns and temperature may impact the intensity or schedule of water availability. Also the retreat of tropical glaciers, the drying of unique Andean wetland ecosystems, as well as increased weather variability and weather extremes will affect water regulation. These changes have the potential to impact the energy and other sectors, such as agriculture, and could have broader economic effects.

Anticipating the impacts of climate change is a new frontier. There are few examples of predictions of the impact of climate change on resource availability and even fewer examples of the applications of such predictions to planning for sustainable economic development. However, having access to an effective methodology would allow planners and policy makers to better plan for adaptation measures to address the consequences of climate change on the power and water sectors.

This report presents a summary of the efforts to develop methodological tools for the assessment of climate impacts on surface hydrology in the Peruvian Andes. It is targeted to decision makers in Peru and in other countries to give them guidance on how to choose available and suitable tools and make an assessment of climate impacts on water regulation.



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