

Submitted Abstract

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Abstract

Development and exploitation of rivers and groundwater are inextricably linked with energy and agricultural production. While all are threatened by climate change and natural resource-intensive economic growth, they offer clear opportunities to pursue carbon-neutral pathways. This presentation examines river basin development in Mendoza, Argentina from water-energy-food-nexus and regional-planning perspectives, focusing on historical and current infrastructure and policies for irrigation, hydropower and hydrocarbon fracking. By assessing the efficacy of regulatory bans, stakeholder engagement, groundwater recharge and other institutional strategies to enhance global-change resilience, the goal is to collaboratively identify policies for water, energy, food, and carbon security in the Andes.