Water-Energy Nexus Challenges and Opportunities in the Americas

← Meta- Challenges	Research questions emanating from nexus challenges	Western North America		Central America		Andes		Brazil	
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I. Resource-use Coupling	(A) Electric Power for Water • agricultural groundwater pumping • water transfer, city supply, reuse • desalination								
	(B) Water for Energy • thermal power generation • hydropower • biofuel feedstock irrigation								
II. Drivers & Responses	(C) Climate Extremes •flood impacts, flood control •drought & water access								
	(D) Ecosystem Change • riparian habitats • water quality (salinity, thermal) • carbon footprint of water use								
	(E) Adaptive Potential • demand management • water-energy substitution • alternative scenarios								
III. Science-Policy Co-Production	(F) Decision-making • legal frameworks • institutional environment • economic drivers and tools								
	(G) Harnessing the Nexus comparative, case-study analysis decision-models, info. flows policy principles, broadly relevant								