Water-Energy Nexus Challenges and Opportunities in the Americas

← Meta-Challenges	*Research questions emanating from nexus challenges*	Western North America		Central America		Andes		Brazil	
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								