HYDROPOWER PRIVATE POWER Chilean Landscape

; HYDROPOWER?

This thesis centers on hydropower development and questions its continuing expansion as subsequent ecological and social challenges continue to compound. Connected through the **political ecology** context, these issues largely present themselves through hydropower impacts, privatized water management obligations and social power relations. Although hydropower can be generated in an ecologically unobtrusive and locally beneficial manner, factor dependent, the global pattern exposing the contrary to this ideal cannot be ignored. establish this stance drawing from several realms: the current international presence of hydropower, scientific impact analyses of river **basin fragmentation**, the political and economic influences upon water allocation, human relations to water management, and finally social **responses** to development decisions.

; CHILEAN RESISTANCE?

Like many others, the Chilean government continues to promote hydropower as their **dominant** "renewable" energy, despite contention of this portrayal due not only to river fragmentation ramifications and community degradation, human and other, but also to underlying **profit motivations**. The core of this study, focusing on the numerous strategies social resistance movements utilize in combating hydro developments in Chile, is largely established through the semi-structured interviews I conducted there in January **2016**. I emphasize the ways in which Chile's multilayered relationship with hydropower has been built on a privatized platform, solidified by legislation and political allegiances to industry. The subsequent environmental regulations and energy demand specifics I present help illuminate the disputed integrity of the centralized Chilean government, and ultimately the five case studies displayed to the right. As these studies depict, the institutionalized promotion of hydropower in Chile has, and currently is, being fought through strategies which have varying degrees of **effectiveness**.

FORWARD MOMENTUM.....



















Forging Effective Resistances to River Development in the

The Bío Bío, located in **Pehuenche territory**, was the first major damming controversy in the **post Water Code Chile**. Despite opposition, much of it emanating from Mapuche communities, Endesa's Pangue dam was completed in 1994, followed by their Ralco dam in 2004. These projects emphasized the institutionalized preference for hydro development and the levels of resistance necessary to combat the power of **private industry**.

The Futaleufú has remained a free-flowing river within Chilean boarders despite Endesa owning its non-consumptive water rights. Although the river is virtually unprotected, plans to dam the Futaleufú were curtailed in **2014**. While the proposal captured both local and international attention, the effective response time was aided by a knowledge base created by those which relocated from **Bío Bío**. Resistance continues through local NGOs, kayaking community members, and other supports.

Patagonia's Baker & Pascua basins evaded an Endesa dam network proposal in **2014**. "Patagonia Sin Represas" is arguably the most **powerful** anti-hydro campaign Chile has seen. With major funding and sustained resistance, the movement utilized social protests, international media coverage, endangered species arguments, external MW analyses, and various legal claims, which slowed project plans and dissuaded investors.

. The Manso is a main tributary of the Puelo River. Mediterráneo proposed a **run-of-river** project on this tributary which the Chilean government approved in Nov. 2015. As the Puelo River is closer to the main electricity line than others further south, incentive for development is high. The project has met resistance from local and international environmental groups, as well as community opposition. Legal strategies such as Mapuche claims regarding indigenous rights violations and others have slowed plans.

. The Maipo Basin is located about thirty miles southeast of Santiago. Despite sustained local opposition since 2008, American AES Gener and the Luksic group are currently constructing a run-of-river system which will siphon the Maipo's main tributaries. The energy will flow to an AES Gener mine and potentially Argentina. Despite contested MW predictions, potable water issues, community tourism concerns, and other

dynamics, the project moves forward. While members of the No Alto Maipo and other environmental groups have spoken with the investors directly, filed numerous legal claims, and organized large protests, several issues hold back the campaign. These problems include: citizen political passivity, relatively low levels of international attention, influences of private industry, and the basin's close proximity to central **electricity lines**. However, the fight is far from over.

The fundamental issue here is that **social** As the end goal of **free-flowing** and healthy upheaval generated by Chile's and other rivers is one that many can agree on, the nation's relationships with hydropower is incentives tourism offers, for example, have the not a new concept. Although several potential to generate greater social engagement international guidelines for hydropower and ultimately political pressure to fortify river development, which aim to preserve conservation. While tourism must be developed ecologic and social prosperity, have been **responsibly**, the posters to the left depict several articulated in the past two decades, it is effective and growing festivals celebrating rivers clear that in the cases of privatized water and the people who appreciate their worth management systems, such guidelines are beyond economic gain. As the hydro era has yet ineffective as long as there is no political to be legitimately curtailed, tourism is only part accountability for their implementation. of a complicated social resistance equation.

It's better to start with something on a local lever, it's like a small stone in your shoe, now you don't care, but maybe one week, or one month, you feel totally destroyed with a small stone, it's growing. Mauricio Fierro



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