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Understanding the Social Network of Stakeholders in Hydropower Project Development: An Owners' View

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Abstract: Hydropower development involves managing a network of diverse stakeholders. Owners play a 5 critical part in effectively cooperating and establishing inter-organizational linking with stakeholders to achieve multiple project objectives. According to the data which is from the construction industry of hydropower in China, the research aims to investigate the causal relationships between cooperation with 8 stakeholders and inter-organizational linking systematically, together with their impacts on the owners' social 9 capital by developing and testing a conceptual model. Path analysis confirms that cooperation with 10 stakeholders cannot only directly improve owners' social capital but also exert its influence on social capital 11 through enhancement of inter-organizational linking, thereby improving project performance and winning 12 external supports for owners' long-term development. Social network analysis shows that, from the 13 perspective of owners, project stakeholders are clearly grouped into four clusters related to project feasibility, 14 implementation, procurement and resettlement of migrants. These clusters reflect stakeholder's different roles 15 and connections with each other in hydropower development. Understanding the above in-depth underlying 16 relationships is fundamental for improving multi-organizational dynamics research to a state of the art, and 17

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