

Transboundary Environmental Security in the Mekong River Basin

Richard P Cronin Director, Southeast Asia Program Stimson Center Washington, DC





A Transboundary Water Resource Shared by Six Countries

 Upper Mekong: - China's Lancang Cascade (7 or 8 Dams) - Two among world's largest – Myanmar: No Dams Lower Mekong: – Upper Reaches: Laos (6) - Middle Reaches: Lao-Thai (2) – Lower Reaches: Lao (2) and Cambodia (2)

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Chinese Dams

- Nearly 30 billion cubic meters storage capacity—enough to regulate river
- Will capture 80 percent of nutrient-rich sediment from Yunnan (historically 50 percent of total reaching Mekong Delta)
- Not a member of MRC-- no transparency or coordination with downstream neighbors
- "Enabler" of Lower Mekong dams (but reduced flows while its dams are filling)
- Possibly not enough water (due to climate change)



12 Lower Mekong Dams •Extreme impact on migratory fisheries, livelihoods, Tonle Sap and Delta Economic viability will depend on augmented flow from China during 4-5 month dry season Thailand main power purchaser Profit-driven commercial opportunities by non-national companies (China, Thailand, Malaysia, Vietnam)

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Xayaburi Dam Site



Tributary Dams Can Also Have Transboundary Impact (Vietnam's Sesan 3 Dam)





Mekong Myths

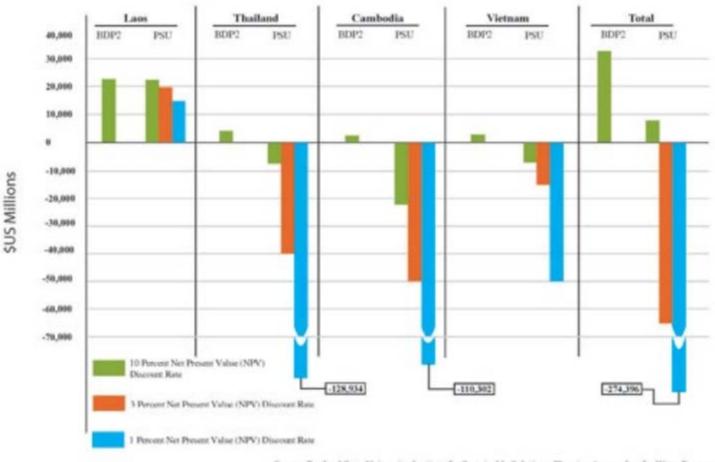
Big dams needed for development

- Discredited 1930s concept
- More people impoverished than benefit
- Low value added and revenues disproportionately small compared to environmental and other costs

Hydropower "clean" – major methane source
Critical to future power needs

- Thailand constantly overestimates future demand
- All mainstream dams only 6-8 percent of projected power demand in LMB in 2030

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Expected Gains/Losses by Country from Mainstream Dam Scenarios under Revised Assumptions LMB 20-Year Plan Scenario-Chinese Dams plus 11 dams; Laos (9) Cambodia (2)

> Source: Portland State University, Institute for Sustainable Solutions, Planning Approaches for Water Resources Development in the Lower Mekong Basin (With Mae Fah Luang University, Thailand), July 2011

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Urgent Action Issues

- Effectively engaging China collectively (success highly doubtful)
 - Securing Future of MRC and Lower Mekong cooperation for sustainable, equitable water management
 - upholding treaty-based PNPCA protocol
 - credible, transboundary EIAs and SIAs

sustainable, equitable water management

 Adopting "Mekong Standard" for maximum acceptable transboundary damage



Critical Needs for Regional Peace and Stability

- Institutional framework for Transboundary Cooperation—MRC or ?
- Bring water issues into the GMS (China + 5)
- Better governance and capacity in LMB
- More empowered civil society
- International donor support for sustainability
 - "Friends of the Mekong" group
 - US Lower Mekong Initiative (LMI)
- More responsible ADB and World Bank



Thank You!

rcronin@stimson.org

