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Historical impact of water infrastructure on water levels of the Mekong River and the Tonle Sap system

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Supplementary Material

Table S1. Existing dams up to 2010 in Mekong River Commission hydropower database (MRC, 2014).

Location*	MRC dam code	Dam Name	Year completed	Active storage ($M m^3$)	Total storage ($M m^3$)
	C001	Manwan	1993	257.000	920.000
Above CS	C002	Dachaoshan	2003	367.000	933.000
	C003	Jinghong	2008	249.000	1,233.000
	C004	Xiaowan	2010	9,900.000	15,130.000
CS-LP	L009	Nam Ko	1996	0.005	0.007
	L010	Nam Ngay	2002	0.674	0.700
LP-VT	L002	Nam Dong	1970	0.015	0.025
	T003	Nam Pung	1965	156.800	165.500
VT-MH	L001	Nam Ngum 1	1971	4,700.000	7,000.000
	L005	Theun-Hinboun	1998	15.000	30.000
	L007	Nam Leuk	2000	228.200	345.400
	L008	Nam Mang 3	2004	45.000	104.730
	L011	Nam Theun 2	2009	3,378.400	3,680.190
	L014	Nam Ngum 2	2010	2,994.000	6,740.000
	L015	Nam Lik 2	2010	826.000	1,341.800
	T006	Ubol Ratana	1966	1,695.000	2,263.000
MH-PS	L003	Xelabam	1969	0.800	1.000
	T005	Sirindhorn	1971	1,135.000	1,966.000
	T001	Chulabhorn	1972	144.500	188.000
	T002	Huai Kum	1982	20.000	22.800
	T004	Pak Mun	1994	125.000	225.000
	L004	Xeset 1	1994	0.300	2.330
	T007	Lam Ta Khong P.S.	2001	290.000	310.000
	L013	Xeset 2	2009	9.300	9.870
	V014	Dray Hlinh 1	1990	1.500	2.900
PS-ST	C001	O Chum 2	1992	0.120	0.150
	L006	Houayho	1999	649.000	674.100
	V003	Yali	2001	779.020	1,038.710
	V004	Se San 3	2006	3.800	86.500
	V005	Se San 3A	2007	4.000	80.610
	V002	Plei Krong	2008	948.000	1,948.680
	V007	Se San 4A	2008	7.500	8.500
	L012	Xekaman 3	2009	108.540	163.860
	V006	Se San 4	2009	264.160	893.340
	V009	Buon Tua Srah	2009	522.600	752.280
	V010	Buon Kuop	2009	14.740	36.110
	V012	Sre Pok 3	2009	62.580	242.780
	V013	Sre Pok 4	2009	10.110	128.740
	V015	Sre Pok 4A	2009	0.100	0.180

*: Chiang Saen (CS), Luang Prabang (LP), Vientiane (VT), Mukdahan (MH), Pakse (PS), Stung Treng (ST)

Table S2. Multi-use reservoirs (hydropower and irrigation) in the Chi and Mun basins.

Project	Year completed	Agency	Location	Watershed area (km^2)	Storage capacity (10^6 m^3)	Power generating capacity (MW)	Annual average power (GWh)
Ubol Rattana	1966	EGAT	Ubol Rattana District, Khon Kaen	12,000	2,263	25.2	54.73
Sirindhorn (Lam Dom Noi)	1971	EGAT	Piboon Mungsahan District, Ubon Ratchathani	2,097	1,966	36	90
Chulaphon	1972	EGAT	Konsan District, Chaiyaphum	545	188	40	94.84
Huey Koom	1982	EGAT	Kaset District, Chaiyaphum	262	22.8	1.06	2.91
Huey Patoa	1992	DEDE	Kang Kroh, Chaiyaphum	162	44 &14.8	4.5	18.41
Pak Mun	1994	EGAT	Khong Jiem District, Ubon Ratchathani	117,000	225	136	280
Lam Takong	2001	EGAT	Sikiew District, Nakhon, Ratchasima	1,430	310	500	400

Source: Electricity Generating Authority of Thailand (EGAT), Department of Alternative Energy Development and Efficiency (DEDE)