



**12th REGIONAL
STAKEHOLDER FORUM**

29 June 2022, Bangkok, Thailand

Information-Sharing and Coordination of Operations of Cascade Dam

Se San and Srepok basins in Vietnam

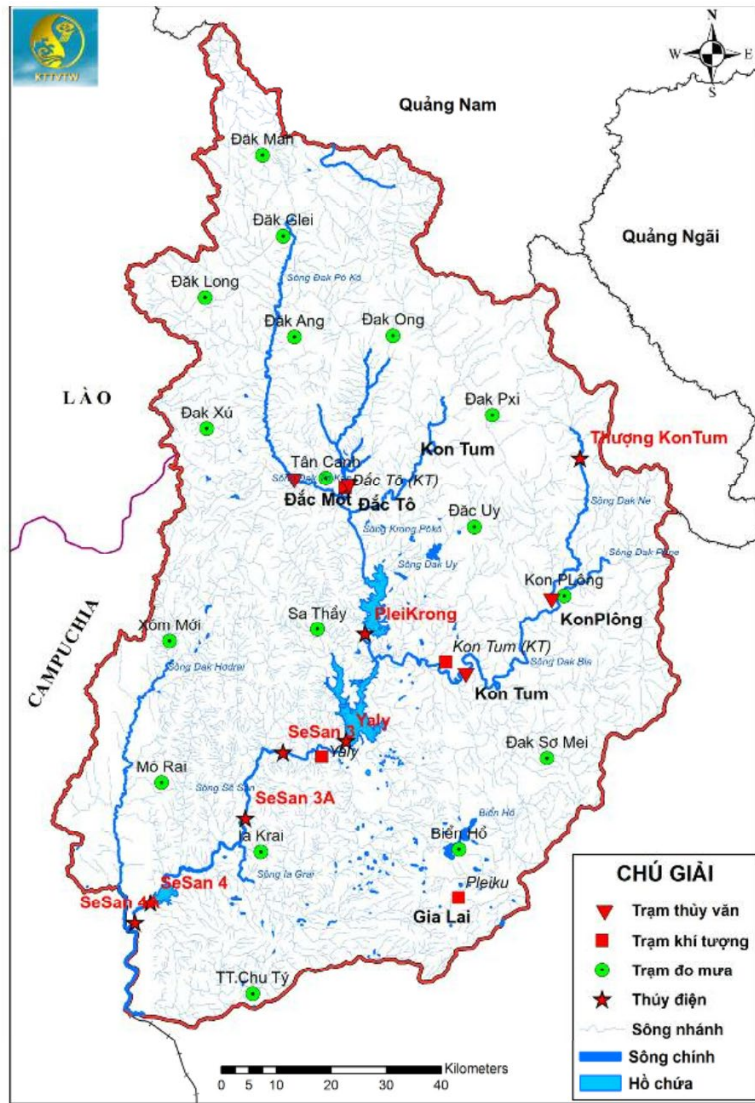
Le Quang Huy

Head of Division, Electricity of Viet Nam

Regulation frameworks

- Regulations set by Central government:
 - Laws: Water Resources, Environmental Protections
 - Government decrees and Ministerial Circulars for water resources monitoring, environmental flow, dam safety etc.,
 - Operation rules for reservoir cascades: Prime Minister's Decisions No. 215/QĐ-TTg for Se San Basin in 2018; No.1612/QĐ-TTg for Srepok Basin in 2019.
- Overseed by ministerial authorities (MONRE, MARD, MOIT),
- Commanded by Provincial governments,
- Implemented by the the dam owners.

Overview of Se San and Srepok basins in Vietnam



Se San River: 2 provinces
 8 dams at mainstream
 N = 1831 MW
 $V_{\text{live}} = 2.1 \text{ billion m}^3$

Srepok River: 3 provinces
 12 dams at mainstream
 N = 730 MW
 $V_{\text{live}} = 0.6 \text{ billion m}^3$

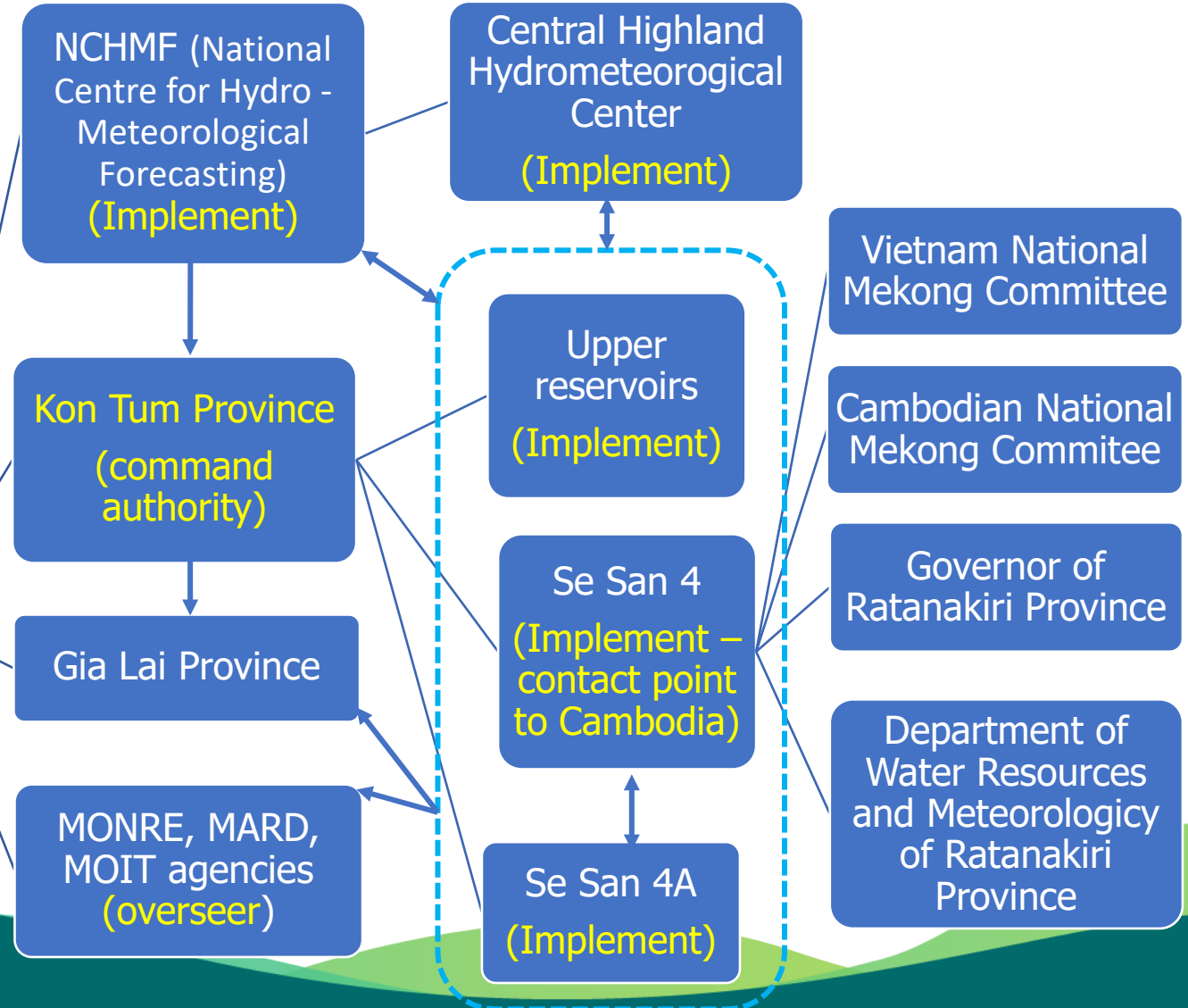
REQUIREMENTS FOR INFORMATION SHARING

Decision No. 215/QĐ-TTg 2018 on Operation rules of Reservoir cascade in the Se San Basin

Vietnam side: daily

To Cambodia: 7 days except
dry or flood emergencies

CSCNDPC
(Central Steering Committee for Natural
Disaster Prevention and Control)
Central government - Highest authority



REQUIREMENTS FOR INFORMATION SHARING

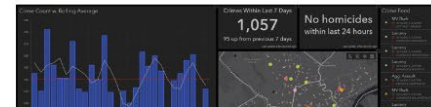
- Direct sharing of data:
 - Flood release warning to the downstream reservoirs,
 - Se San 4 and Se San 4A shall report operation status so that Se San 4 will inform Cambodian Authorities about discharge planning
- Indirect sharing of data:
 - Reporting reservoir parameters to National weather service and received back hydrological forecast.
 - Reporting reservoir and flow to databases of Directorate of Water Resources (MARD), Department of Water Resources Management (MONRE), National Dispatch Center (EVN), EVN headquarter.

REQUIREMENTS FOR INFORMATION SHARING

- Supervision by automatic real time monitoring



Ứng dụng cho Cơ quan quản lý



REQUIREMENTS FOR INFORMATION SHARING

- Supervision by automatic real time monitoring (target 60-70% of key locations by 2030, EVN already reached 100%)

Tên hồ	Thời điểm	H_{ti}	Q_{ve}	ΣQ_x	Q_{xt}	Q_{xm}	N_{cxd}	N_{cxm}
Tây Nguyên								
Buôn Tua Srah	22/06 13:00	471.6	18	30	0	30	0	0
Buôn Kuop	22/06 13:00	411.2	219	3	0	0	0	0
Srepok 3	22/06 13:00	271	4	0	0	0	0	0
An Khê	22/06 13:00	428.4	36	4	4	0	0	1
Kanak	22/06 13:00	503.7	7	15	0	15	0	0
Pleikrông	22/06 13:00	540.6	26	130	0	130	0	0
Ialy	22/06 13:00	504.2	168	168	0	168	0	0
Đại Ninh	22/06 13:00	867.9	36	5	1	4	0	0
Đơn Dương	22/06 11:00	1035.8	33	0	0	0	0	0
Đồng Nai 3	22/06 13:00	577.4	9	91	0	91	0	0
Sê San 3	22/06 11:00	304.3	229	81	0	81	0	0
Sê San 3A	22/06 13:00	239	0	11	0	11	0	0
Sê San 4	22/06 13:00	210.6	46	340	0	340	0	0
Sê San 4A	22/06 13:00	152.8	340	195	0	195	0	0

KEY POINTS

- Clear framework for data sharing set by central government, commanded by the provinces and implemented by stakeholders with supervision by ministerial authorities.
- Information sharing is both direct and indirect among dam owners and relevant agencies
- Automation and real-time database should be one key for government control of data sharing. Target: 60-70% key locations will be real-time monitor by 2030 in Se San and Srepok basins.



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THANK YOU