

ERI-PARI Joint Workshop
The Evolving Energy Relationship
between Thailand and Myanmar

Power Trade in Myanmar, Laos and Cambodia

Nobuo HASHIMOTO
Visiting Researcher

Policy Alternatives Research Institute (PARI)

December 16 2013

Bangkok Thailand

Power Trading
in Myanmar,
Laos and
Cambodia

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Power Trade in Myanmar, Laos and Cambodia

1. Current power trade in Myanmar, Laos and Cambodia

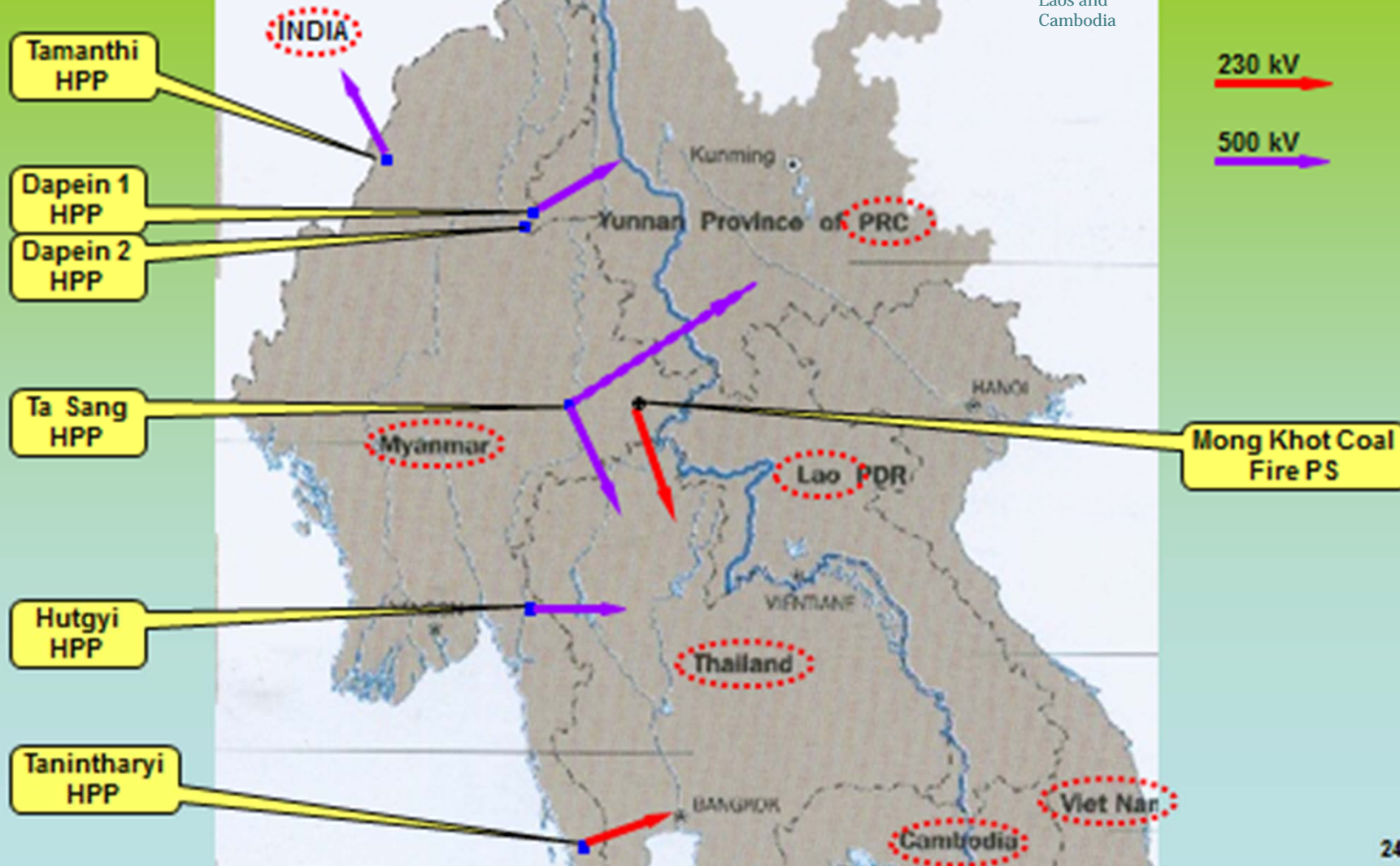
(1) Myanmar

- ✓ Power trade is not active and there is scarce power import from neighboring country including small-sized power import through distribution line at border area.
- ✓ Power export to China and Thailand by IPPs are under plan and it is expected to increase Government revenue.



230kV,500kV interconnection lines under plan (2010-2020)

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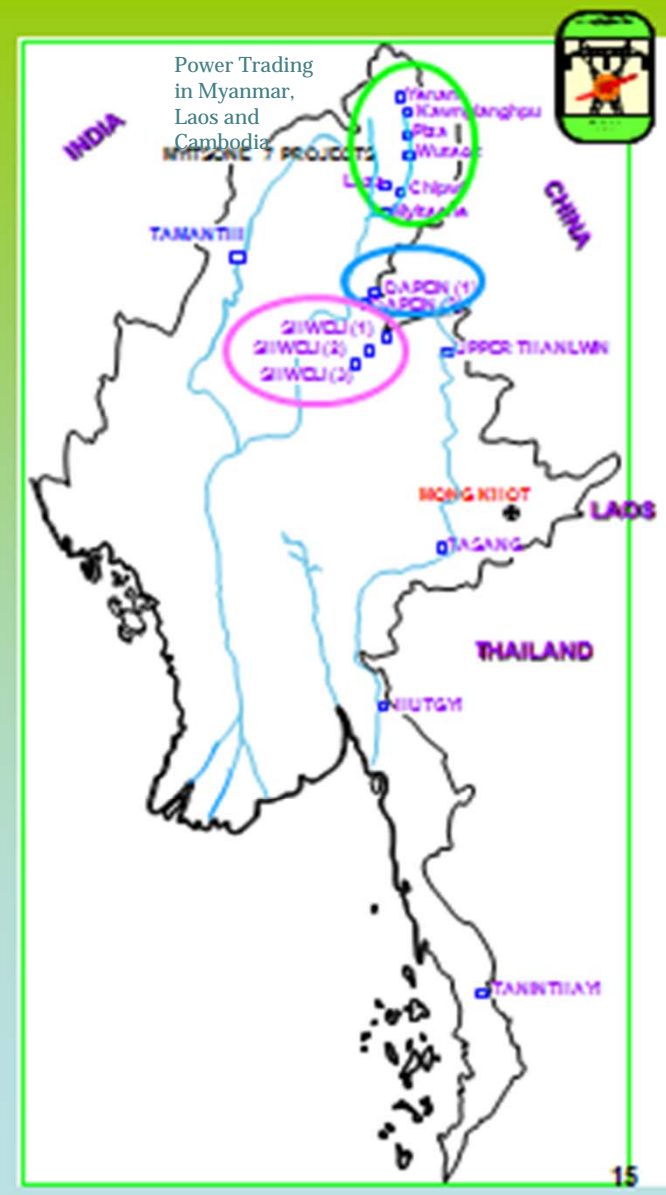


Source : Document at GMS/RPTC (2008)



Power Projects for Cross-border Power Interconnection

Sr. No.	Name of Project	Installed Capacity (MW)	Annual Energy (GWh)	Current Status and Progress
1.	Yenam	1,200	6,650	Negotiation for Joint Venture Agreement with China Power Investment Corp: (16,500 MW)
2.	Kawnglangphu	2,700	14,730	
3.	Pisa	2,000	11,080	
4.	Wutsok	1,800	10,140	
5.	Chipwi	2,800	15,210	
6.	Laza	1,900	10,440	
7.	Myitsone	4,100	18,320	
8.	Dapeln (1)	240	1,065	MOA with DUHD Submitting Joint Venture Agreement to Cabinet.
9.	Dapeln (2)	140	633	MOU with DUHD in (25.9.08)
10.	Shwell (1)	600	4,022	Commissioning in 2008 by DHPI & YUPD.
11.	Shwell (2)	640	3,310	MOU signed with Huaneng Lancang River Hydro Power Co. Ltd in 14 th Nov 2009.
12.	Shwell (3)	800	3,995.5	Will be implemented by DHPI.
13.	Upper Thanlwin	1400	7,338	MOA with Hanergy Holding Group Ltd.
14.	Ta Sang	7110	35446	JV Basis with MDX Group, Thailand. But project is delayed.
15.	Hutgyi	1,360	7,325	Negotiation for MOA with EGAT
16.	Tanintharyi	600	3,476	MOU with Italian-Thai.
17.	Mong Khot	3x123	-	Thailand
18.	Tamanthi	200x6	6688	Agreement signed NHPC (India)
Total		31,059		



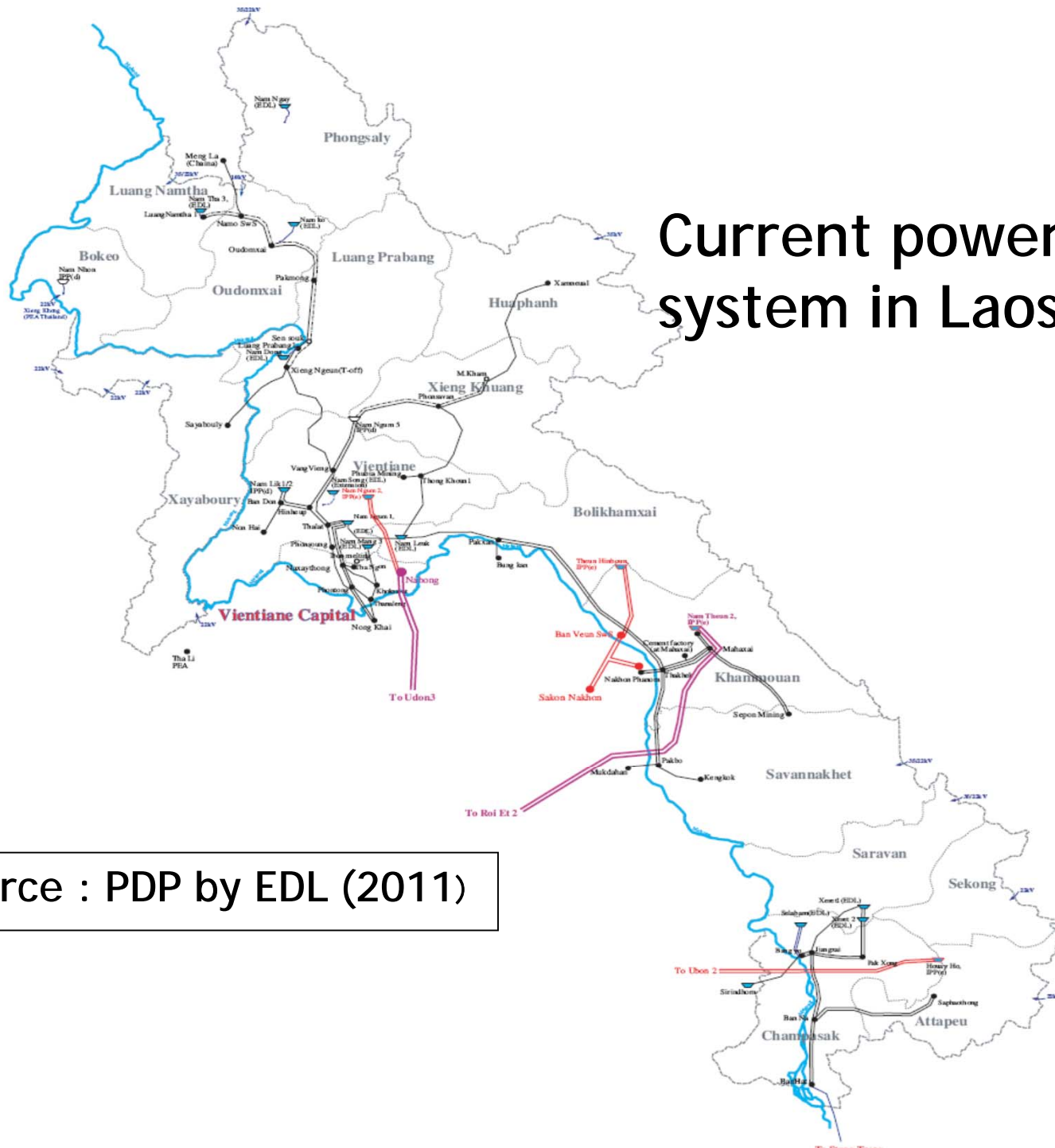
Source : Document at GMS/RPTC (2008)

Power Trade in Myanmar, Laos and Cambodia

(2) Laos

- ✓ Power export to Thailand by IPPs is active and the power is sent to EGAT through exclusive line of IPP (230/500kV).
- ✓ Common use of high-voltage line by plural IPPs is under plan for NamNgum2/NamNgum3/NamNgiep with the aid of ADB (500kV).
- ✓ There is a win-win power trade between EDL and EGAT as mutual reciprocity (import and export/115kV).
- ✓ There are some small-sized power import through distribution line from China, Thailand and Vietnam and they contribute to the rural-electrification at border areas.

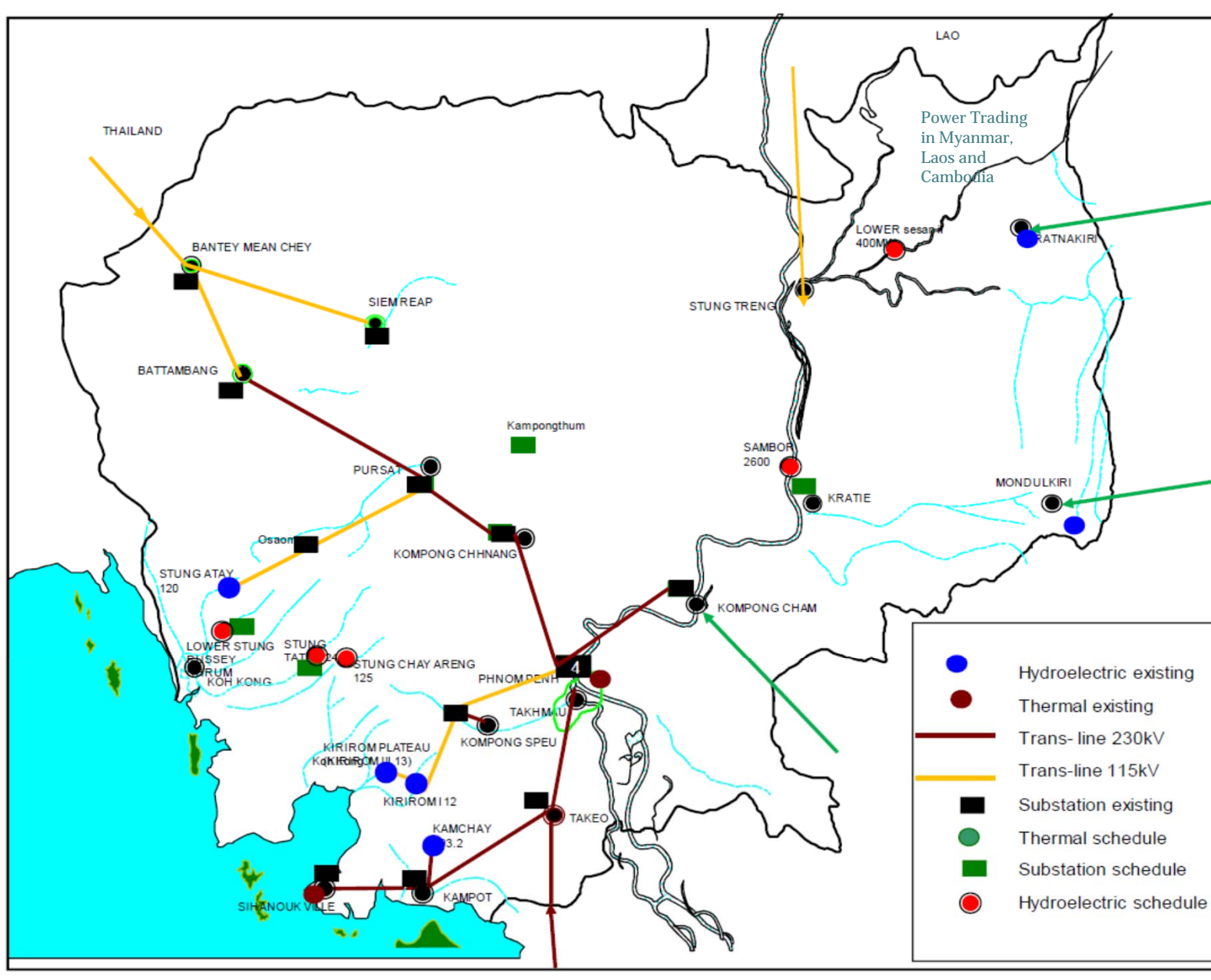
Current power system in Laos 2011



Source : PDP by EDL (2011)

(3) Cambodia

- ✓ Power import from Thailand and Vietnam contributes to the power supply to Phnom Penh and surrounding cities(230kV).
- ✓ There are a few power import from Thailand and Vietnam at their borders (115kV), and they contribute to the power supply in local area.



Source : Document at JICA Training(2013)

2. Lessons learnt from power trade in Laos

- ✓ Power import can be one of the efficient way of power supply measures.
- ✓ Power trade with neighboring country from the view of “Inter Dependence” is recommended to have energy-security.
- ✓ Power export by IPP will contribute to get much Government revenue and small-scale power import contribute to power supply at borders .
- ✓ Common use of high-voltage transmission line by plural IPPs might accelerate not only IPP business but also rural-electrification in local area.