

ERI-PARI Joint Workshop
ASEAN Connectivity:
Power Integration with Myanmar

Lessons from the Lao-Thai Power Connectivity

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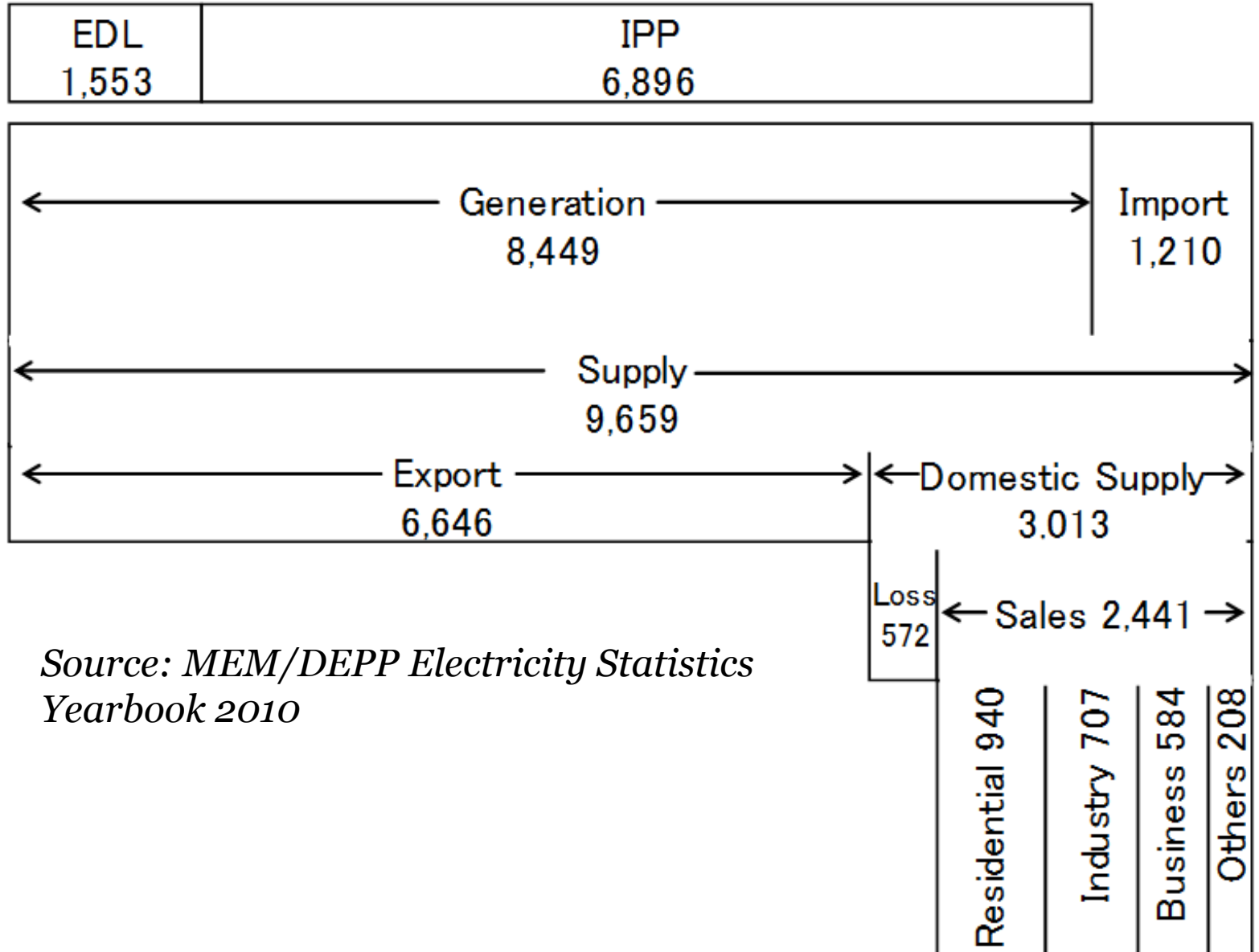
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1. Current Status of the Power Connectivity between Laos and Thailand

- Power Import-Export between two countries is very active
- Power export to Thailand by IPP occupies more than 80% of total energy production in Laos
- Power import from Thailand contributes to meet the power deficit in dry season in Laos
- Power import at the boundaries with Thailand, Vietnam and China contributes to rural electrification in Laos

Lessons from the Lao-Thai Power Connectivity



Source: MEM/DEPP Electricity Statistics Yearbook 2010

Fig.1 Power Supply in Laos (GWh 2010)

Lessons from the Lao-Thai Power Connectivity

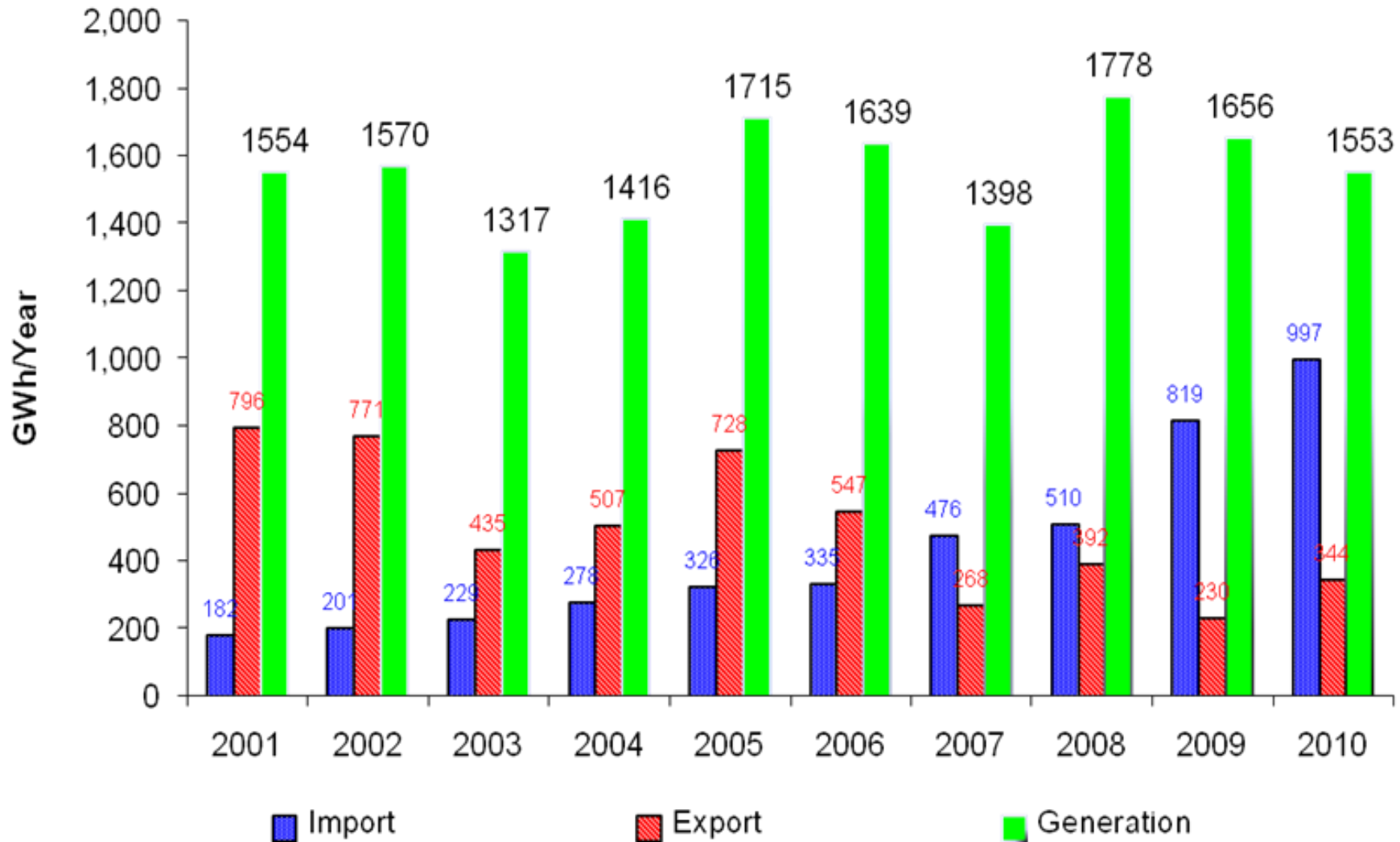


Fig. 2 Power Demand-Supply Balance in EDL

Lessons from the Lao-Thai Power Connectivity

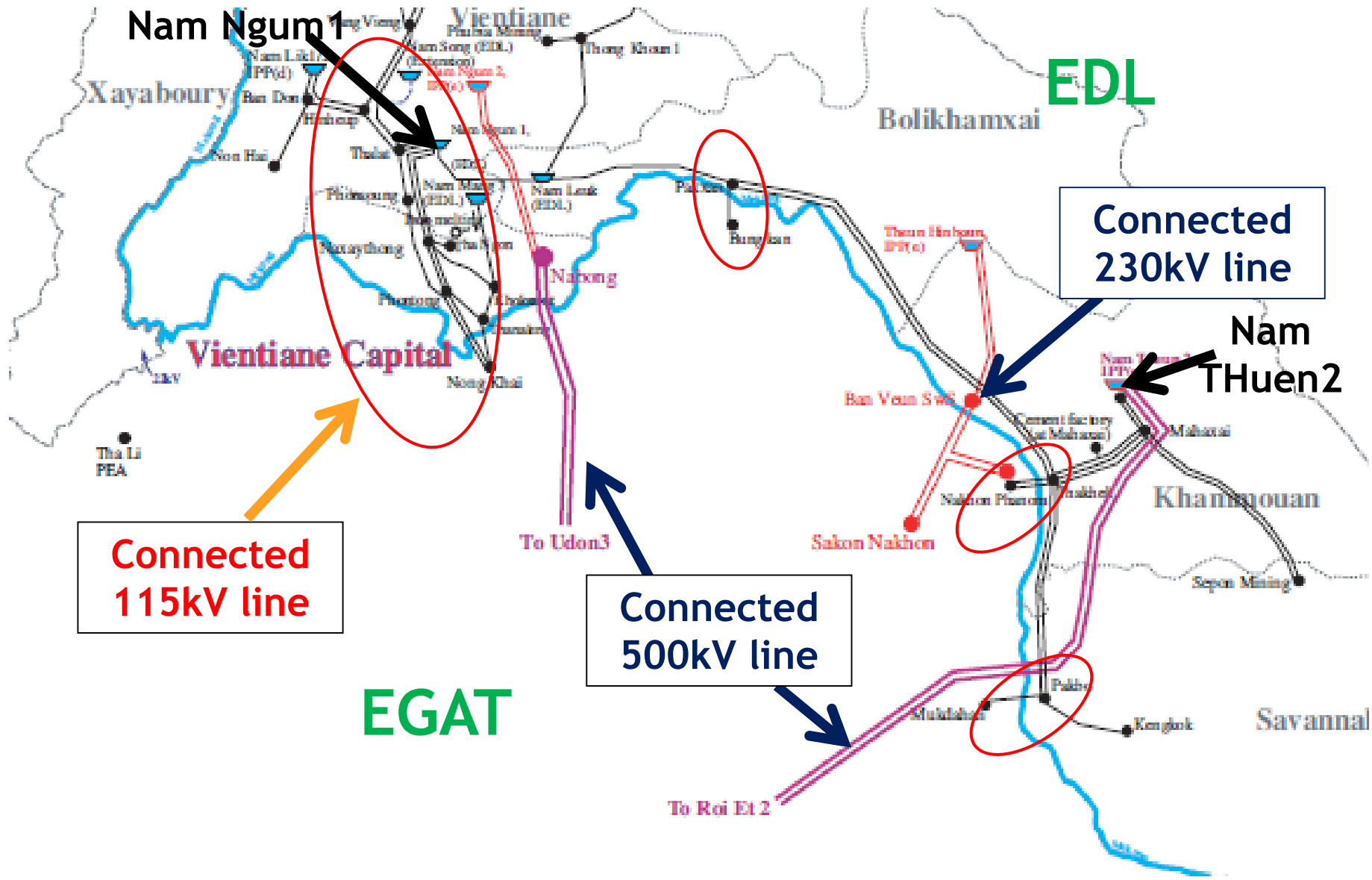
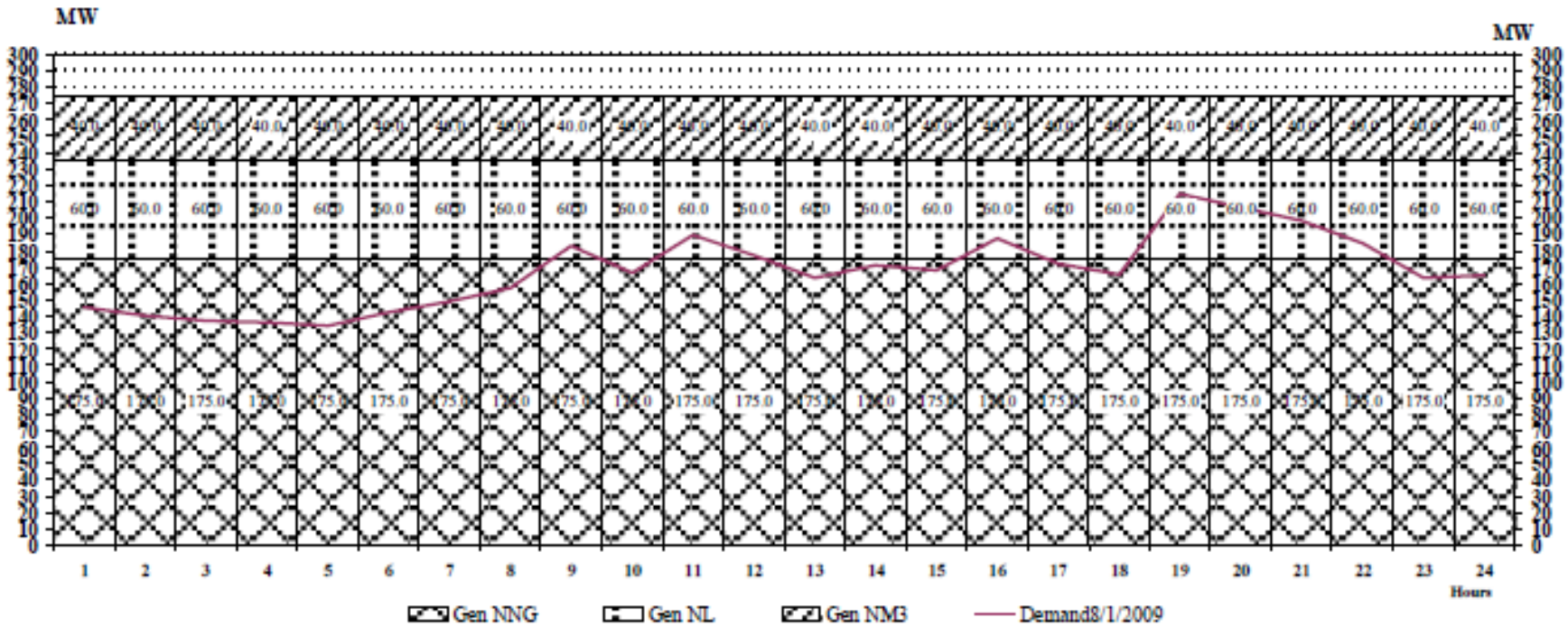


Fig.3 Connection between two power systems of EDL and EGAT

Lessons from the Lao-Thai Power Connectivity

From 16 to 30 / September/ 2009 (Monday - Friday)



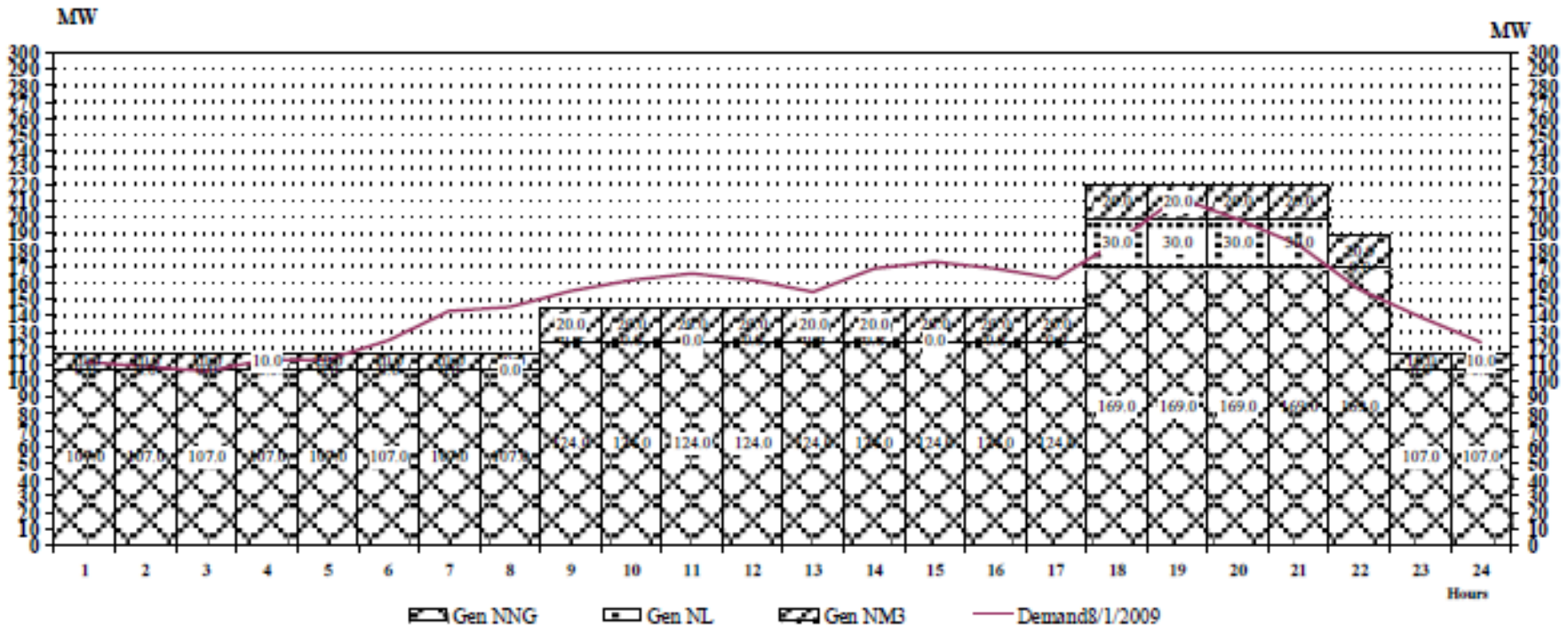
Source: NN-1 Hydropower Station

Figure 3.1.3 Power Generation Plan with Combination of Nam Ngum 1, Nam Leuk and Nam Mang 3 (Typical case in Rainy Season)

Fig.4 Power Demand-Supply Balance (Nam Ngum1 wet season)

Lessons from the Lao-Thai Power Connectivity

From 7 to 15 / January/ 2009 (Monday - Friday)



Source: NN-1 Hydropower Station

Figure 3.1.4 Power Generation Plan with Combination of Nam Ngum 1, Nam Leuk and Nam Mang 3 (Typical Case in Dry Season)

Fig. 5 Power Demand-Supply Balance (Nam Ngum1 dry season)

2. Lessons from the Lao-Thai power Connectivity

(1) Laos's Benefit through bilateral power trading between two countries

(Lao side)

- Laos can get much revenue through IPP projects
- EDL can manage to meet power deficit in dry season
- power trading might be developed to regional power integration in Indochina area
- distribution extension from neighboring countries will supply power to un-electrified area and Laos can raise electricity rate

(Thai side)

- power from IPP projects in Laos contributes to the stable power supply in EGAT system
- Thermal power has a big percentage in Thai and power import from Laos can be an important as peak power supply

3. Expected Power Connectivity in Myanmar

- PDP in Myanmar is now under preparation and much hydropower potential can be a valuable power source for not only domestic power supply but also regional power integration with neighboring countries
- Hydropower development by IPPs is expected to give much benefit to Myanmar, but it may cause adverse effects to the livelihood of Myanmar people
- Key words for desirable hydropower development is ***Benefit Sharing and Moderate Development***

Win-Win Project might make Myanmar happy



Thank you for your attention