

Lao People's Democratic Republic  
Peace Independence Democracy Unity prosperity

EDL-GENERATION PUBLIC COMPANY  
NamNgum-1 HPP



No : 3110.....  
NamNgum-1, Date: 24.AUG 20

Reservoir Water Situation Reports of NamNgum-1  
Date : 24/08/2018 at 08:00 AM

1. Reservoir water level and Tail water level

- Reservoir water level 211.76 m.asl, Reservoir water Volume = 6,932,354,400 m<sup>3</sup> , Water level increase 12 cm compared to 08:00 am yesterday morning
- Tail water level 171.4 m.asl is increased 5 cm compared to 08:00 am yesterday morning

2. Reservoir Inflow and Outflow of NamNgum-1 HPP

A. Reservoir Inflow = 2,149.5 m<sup>3</sup>/s = 185,717,018 m<sup>3</sup>/day

All amount included: -inflow from NNG-2 = 1,555.6 m<sup>3</sup>/s = 134,410,000 m<sup>3</sup>/day

- inflow from others sources = 593.9 m<sup>3</sup>/s = 51,312,960 m<sup>3</sup>/day

B. Reservoir Outflow = 1,697.21 m<sup>3</sup>/s = 146,640,218 m<sup>3</sup>/day

All amount included: - Turbines Discharge = 617.11 m<sup>3</sup>/s = 53,317,872 m<sup>3</sup>/day

- Spillway Discharge = 1080.1 m<sup>3</sup>/s = 93,322,346 m<sup>3</sup>/day

- At 13:00PM 23/08/2018 increased Hight of Spillways gate opened from 2.7 m to 3 m, Spillways discharge = 1103.3 m<sup>3</sup>/s

- Rainfall at NamNgum1 Raingauge is 47 mm

3. Reservoir Water Balance ( A-B) = 452.29 m<sup>3</sup>/s = 39,077,856 m<sup>3</sup>/day

Therefore : Reservoir water level is decreased 12 cm/Day

4. Streamgauge data along NNG Downstream River compared to 08:00 AM yesterday morning as follow:

- Water level at Pak ka ngoung gauge is 10.76 m at 08:00 am is seen that water level increased 56 cm compared to 08:00 am yesterday morning
- Water level at Vernkham gauge is 11.85 m at 08:00 AM is seen that water level is increased 15 cm compared to 08:00 am yesterday morning
- Water level at Hinhuep gauge is 8 m is seen that water level is increased 1.26 m compared to 08:00 am yesterday morning
- Water level at Ban Hatsuan gauge is increased 22 cm compared to 08:00 am yesterday morning
- Water level at Ban Tanpiow gauge is increased 20 cm compared to 08:00 am yesterday morning
- Water level at Ban Choom gauge is increased 23 cm compared to 08:00 am yesterday morning
- Water level at Ban Cheng gauge is increased 20 cm compared to 08:00 am yesterday morning
- Water level at Bounghphao gauge is increased 15 cm compared to 08:00 am yesterday morning

Reservoir Water Level legend

Reservoir dangerous level = 214.0 m.asl  
 Full supply Level = 212.3 m.asl  
 Minimum Reservoir Level = 196.0 m.asl

Tail water level

Dangerous level 174.0 m.asl  
 Warning level 170.0 m.asl  
 Lower level 164.0 m.asl

Director of NamNgum-1 HPP

