

Lao People's Democratic Republic  
Peace Independence Democracy Unity prosperity

EDL-GENERATION PUBLIC COMPANY  
NamNgum-1 HPP



No : 3095  
NamNgum-1, Date: 23 AUG 2018

Reservoir Water Situation Reports of NamNgum-1  
Date : 23/08/2018 at 08:00 AM

1. Reservoir water level and Tail water level
  - Reservoir water level 211.64 m.asl, Reservoir water Volume = 6,893,276,600 m<sup>3</sup> , Water level increase 6 cm compared to 08:00 am yesterday morning
  - Tail water level 170.9 m.asl is increased 3 cm compared to 08:00 am yesterday morning
2. Reservoir Inflow and Outflow of NamNgum-1 HPP
  - A. Reservoir Inflow = 1,822.44 m<sup>3</sup>/s = 157,458,684 m<sup>3</sup>/day
    - All amount included: -inflow from NNG-2 = 1,065.6 m<sup>3</sup>/s = 92,070,000 m<sup>3</sup>/day
    - inflow from others sources = 756.87 m<sup>3</sup>/s = 65,390,976 m<sup>3</sup>/day
  - B. Reservoir Outflow = 1,596.3 m<sup>3</sup>/s = 137,920,464 m<sup>3</sup>/day
    - All amount included: - Turbines Discharge = 597.60 m<sup>3</sup>/s = 51,632,280 m<sup>3</sup>/day
    - Spillway Discharge = 998.7 m<sup>3</sup>/s = 86,288,184 m<sup>3</sup>/day
    - At 22:10PM 19/08/2018 reduced Hight of Spillways gate opened from 3.0 m to 2.7 m, Spillways discharge = 998.3 m<sup>3</sup>/s
    - Rainfall at NamNgum1 Raingauge is 11.25 mm
3. Reservoir Water Balance ( A-B) = 226.14 m<sup>3</sup>/s = 19,538,496 m<sup>3</sup>/day  
Therefore : Reservoir water level is increased 6 cm/Day
4. Streamgauge data along NNG Downstream River compared to 08:00 AM yesterday morning as follow:
  - Water level at Pak ka ngoung guage is 10.2 m at 08:00 am is seen that water level increased 18 cm compared to 08:00 am yesterday morning
  - Water level at Vernkham guage is 11.70 m at 08:00 AM is seen that water level is increased 04 cm compared to 08:00 am yesterday morning
  - Water level at Hinhuiep guage is 6.74 m is seen that water level is increased 134 cm compared to 08:00 am yesterday morning
  - Water level at Ban Hatsuan guage is increased 04 cm compared to 08:00 am yesterday morning
  - Water level at Ban Tanpiow guage is increased 30 cm compared to 08:00 am yesterday morning
  - Water level at Ban Choom guage is increased 1.3 cm compared to 08:00 am yesterday morning
  - Water level at Ban Cheng guage is increased 50 cm compared to 08:00 am yesterday morning
  - Water level at Bounghphao guage is increased 19 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

