

THE DAILY BHUTAN POWER SYSTEM OPERATOR LOAD-GENERATION BALANCE REPORT & ENERGY FIGURES ISSUED ON 27-Apr-2025(-ve:import, +ve:export)							
Report Details	Date	Time	National Coincidental Peak Load (MW)		Date	Time	Load
	April 26, 2025	18:00:00			25-Dec-2024	18:36	1026.44
Sl. No.	Hydropower Plant	Unit	MW	Transmission Lines and Elements	Load (MW)	Remarks	
1	6 x 170MW THP	Unit- I	0.00	400kV THP - Siliguri Line - I	0.00	Unit-IV under AMP. Unit- I and V on Standby. Unit-II under shutdown. 400kV THP-SIL Line I on Standby. 400kV THP-SIL Line IV under Shutdown .	
		Unit- II	0.00	400kV THP - Siliguri Line - II	-30.39		
		Unit- III	89.43	400kV THP - Siliguri Line - IV	0.00		
		Unit- IV	0.00	400kV THP - Malbase Line - III	196.28		
		Unit- V	0.00	400kV Malbase - Siliguri Line	-72.26		
		Unit- VI	76.45	-	-		
		Total	165.88	Auxiliary Consumption & Transformation Losses at Generator end	-0.01%		
2	4 x 180MW MHP	Unit-I	69.83	400kV MHP - Jigmeling Line - I	0.00	Unit-II under AMP. 400kV MHP-JLG line-I on Standby. 400kV MHP-JLG line-II under ROW. 132kV MHP_Yurmoo Line-I not in Service.	
		Unit-II	0.00	400kV MHP - Jigmeling Line - II	0.00		
		Unit-III	70.14	400kV MHP - Jigmeling Line - III	80.93		
		Unit-IV	67.02	400kV MHP - Jigmeling Line - IV	80.45		
		-	-	132kV MHP - Yurmo Line - I	0.00		
		-	-	132kV MHP - Yurmo Line - II	62.34		
		-	-	500MVA, 400/220kV ICT at Jigmeling (HV)	206.91		
		-	-	400kV Jigmeling - Alipurduar Line - I	134.55		
		-	-	400kV Jigmeling - Alipurduar Line - II	133.82		
		-	-	80MVA, 220/132kV ICT - I (HV)	-18.16		
		-	-	80MVA, 220/132kV ICT - II (HV)	-17.97		
		-	-	220kV Tsirang - Jigmeling Line	-120.61		
		-	-	132kV Gelephu - Salakati Line	-6.40		
		Total	206.99	Auxiliary Consumption & Transformation Losses at Generator end	0.51%		
		3	6 x 170MW PHP-II	Unit- I	0.00		
Unit- II	139.73			400kV PHP II - Jigmeling -II	319.00		
Unit- III	179.85			400kV PHP II - Alipurduar -I	0.00		
Unit- IV	0.00			400kV PHP II - Alipurduar -II	0.00		
Unit- V	0.00			-	-		
Unit- VI	0.00			-	-		
Total	319.58			Auxiliary Consumption & Transformation Losses at Generator end	0.18%		
4	4 x 84MW CHP	Unit- I	44.93	220kV CHP - Birpara Line - I	-53.83	Unit-IV Under Shutdown Unit-II under AMP.	
		Unit- II	0.00	220kV CHP - Birpara Line - II	-53.34		
		Unit- III	46.00	220kV CHP - Gedu	-14.29		
		Unit- IV	0.00	220kV CHP - Jamjee - I	69.63		
		-	-	220kV CHP - Jamjee - II	69.12		
		-	-	220kV CHP - Jamjee - III	66.67		
		-	-	220kV Malbase - Birpara Line	-35.55		
		-	-	66kV CHP - Gedu Line	6.75		
		-	-	3x3MVA, 66/11kV TFR	1.41		
		Total	90.93	Auxiliary Consumption & Transformation Losses at Generator end	-1.31%		
5	2 x 12MW BHP (U/S)	Unit- I	4.00	220kV BHP - Semtokha Line	119.00	U/S Unit-II & L/S Unit-II on Standby	
		Unit- II	0.00	66kV BHP - Lobeysa Line	24.36		
		Total	4.00	220kV BHP - Tsirang Line	-131.27		
	2 x 20MW BHP (L/S)	Unit- I	8.44	5MVA, 66/11kV TFR	0.45		
		Unit- II	0.00	30MVA ICT, 220/66kV (HV)	21.20		
7	2 x 63MW DHP	Total	8.44	Auxiliary Consumption & Transformation Losses at Generator end	-0.80%	Unit-II on Standby. 220kV DHP-Dagapela line on Standby	
		Unit-I	14.71	220kV DHP - Tsirang Line	14.50		
		Unit-II	0.00	220kV DHP - Dagapela Line	0.00		
		-	-	220kV Jigmeling - Dagapela Line	51.56		
		-	-	5MVA, 220/33kV TFR	0.22		
8	4 x 15MW KHP	Total	14.71	Auxiliary Consumption & Transformation Losses at Generator end	-0.07%	Unit- I on Standby.	
		Unit- I	0.00	132kV KHP - Nangkhon Line	18.99		
		Unit-II	11.14	132kV KHP - Kilikhar Line	13.93		
		Unit- III	11.13	5MVA, 132/11kV TFR	0.23		
		Unit- IV	11.17	132kV Motanga - Rangia Line	14.31		
9	2 x 59MW NHP	Total	33.44	Auxiliary Consumption & Transformation Losses at Generator end	0.87%	Unit- I under Shutdown. 132kV NHP-MHP line-II under AMP.	
		Unit-I	0.00	132kV NHP-MHP-I	17.79		
		Unit-II	17.99	132kV NHP-MHP-II	0.00		
10	2 x 9MW SHP	Total	17.99	Auxiliary Consumption & Transformation Losses at Generator end	1.11%	Interim measure: evacuation is through 33kV system. Unit-I under Breakdown.	
		Unit- I	0.00	66kV SHP-Damdhum (Samtse)	0.00		
		Unit- II	4.00	-	-		
Note: Generation-Load Summary (MW) for 26-Apr-2025 at 18:00 hrs							
Sl. No.	Region	Total Generation	Total Domestic Load (Total Generation - Total Export)		Total Export(+ve)/ Import(-ve)		
1	Both Eastern & Western (Whole Bhutan)	865.96	835.05		30.91		
Note: Generation-Load Summary (MW) for 26-Apr-2024, at 18:00 hrs							
Sl. No.	Region	Total Generation	Total Domestic Load (Total Generation - Total Export)		Total Export(+ve)/ Import(-ve)		
1	Both Eastern & Western (Whole Bhutan)	811.42	900.77		-89.35		
Note: Daily Energy (MUs) and Power(MW) Statistics for 26-Apr-2025							
Sl. No.	Total Energy Generation	Daily Energy Met	Net Energy Import (IEX and Solar)	Net Energy Export	Peak Cross-border (MW)		
1	20.92	20.14	0.07	0.81	-90.47		

- The Instantaneous load balance,calculated as (Total generation - (Total export-Import) - Total domestic load), do not tend towards zero. This could be due to the following reasons:
 - Not all the meters are digital and now are all the meter at all locations can be read at same time (say 9:00hrs) due to many meter to be read manually. ii) The clocks of all the locations are not synchronized.
- This report, compiled using the SCADA data, is prepared to give an overall idea of the generation & load flow for the system at a particular instant. This report also gives energy and import/export figures.
- When SCADA data are unavailable for certain stations due to technical issues, required data are collected from the site.