



THE DAILY BHUTAN POWER SYSTEM OPERATOR LOAD-GENERATION BALANCE REPORT & ENERGY FIGURES ISSUED ON 02-May-2025(-ve:import, +ve:export)						
Report Details	Date	Time	National Coincidental Peak Load (MW)		Date	Time
	May 1, 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	58.19	Unit-I on Standby. Unit-II under Shutdown. 400kV THP-SIL Line II on Standby.
		Unit- II	0.00	400kV THP - Siliguri Line - II	0.00	
		Unit- III	99.15	400kV THP - Siliguri Line - IV	51.87	
		Unit- IV	70.40	400kV THP - Malbase Line - III	262.05	
		Unit- V	99.32	400kV Malbase - Siliguri Line	10.90	
		Unit- VI	102.47	-	-	
		Total	371.34	Auxiliary Consumption & Transformation Losses at Generator end	-0.21%	
2	4 x 180MW MHP	Unit-I	168.93	400kV MHP - Jigmeling Line - I	0.00	Unit-II under AMP. Unit III on Standby. 400kV MHP-JLG line-I on Standby. 400kV MHP-JLG line-II on Standby. 132kV MHP_Yurmoo Line- I not in Service.
		Unit-II	0.00	400kV MHP - Jigmeling Line - II	0.00	
		Unit-III	0.00	400kV MHP - Jigmeling Line - III	110.85	
		Unit-IV	88.08	400kV MHP - Jigmeling Line - IV	110.45	
		-	-	132kV MHP - Yurmo Line - I	0.00	
		-	-	132kV MHP - Yurmo Line - II	62.06	
		-	-	500MVA, 400/220kV ICT at Jigmeling (HV)	150.18	
		-	-	400kV Jigmeling - Alipurduar Line - I	135.27	
		-	-	400kV Jigmeling - Alipurduar Line - II	140.36	
		-	-	80MVA, 220/132kV ICT - I (HV)	-20.42	
		-	-	80MVA, 220/132kV ICT - II (HV)	-20.26	
		-	-	220kV Tsirang - Jigmeling Line	-120.10	
		-	-	132kV Gelephu - Salakati Line	-14.54	
		Total	257.01	Auxiliary Consumption & Transformation Losses at Generator end	0.68%	
3	6 x 170MW PHP-II	Unit- I	50.30	400kV PHP II - Jigmeling -I	0.00	Unit-II on Standby. 400kV PHP-II - Jigmeling Line-I on Standby.
		Unit- II	0.00	400kV PHP II - Jigmeling -II	200.10	
		Unit- III	150.85	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	201.15	Auxiliary Consumption & Transformation Losses at Generator end	0.52%	
4	4 x 84MW CHP	Unit- I	80.91	220kV CHP - Birpara Line - I	-42.60	Unit-IV under Shutdown . Unit-II under AMP.
		Unit- II	0.00	220kV CHP - Birpara Line - II	-42.30	
		Unit- III	79.89	220kV CHP - Gedu	21.32	
		Unit- IV	0.00	220kV CHP - Jamjee - I	72.19	
		-	-	220kV CHP - Jamjee - II	72.15	
		-	-	220kV CHP - Jamjee - III	69.66	
		-	-	220kV Malbase - Birpara Line	-42.00	
		-	-	66kV CHP - Gedu Line	8.88	
		-	-	3x3MVA, 66/11kV TFR	1.42	
		Total	160.80	Auxiliary Consumption & Transformation Losses at Generator end	0.05%	
5	2 x 12MW BHP (U/S)	Unit- I	4.50	220kV BHP - Semtokha Line	118.10	
		Unit- II	5.20	66kV BHP - Lobeysha Line	26.66	
		Total	9.70	220kV BHP - Tsirang Line	-116.93	
6	2 x 20MW BHP (L/S)	Unit- I	9.50	5MVA, 66/11kV TFR	0.48	
		Unit- II	9.30	30MVA ICT, 220/66kV (HV)	17.50	
		Total	18.80	Auxiliary Consumption & Transformation Losses at Generator end	0.67%	
7	2 x 63MW DHP	Unit-I	0.00	220kV DHP - Tsirang Line	0.00	Unit-I on Standby. 220kV DHP-TSI line kept on Idle charge.
		Unit-II	61.01	220kV DHP - Dagapela Line	60.77	
		-	-	220kV Jigmeling - Dagapela Line	-10.72	
		-	-	5MVA, 220/33kV TFR	0.23	
		Total	61.01	Auxiliary Consumption & Transformation Losses at Generator end	0.02%	
8	4 x 15MW KHP	Unit- I	11.13	132kV KHP - Nangkhor Line	19.33	Unit- IV on Standby.
		Unit-II	11.16	132kV KHP - Kiltkhar Line	13.75	
		Unit- III	11.20	5MVA, 132/11kV TFR	0.23	
		Unit- IV	0.00	132kV Motanga - Rangia Line	3.75	
		Total	33.49	Auxiliary Consumption & Transformation Losses at Generator end	0.54%	
9	2 x 59MW NHP	Unit-I	0.00	132kV NHP-MHP-I	28.11	Unit-I under Shutdown. 132kV NHP-MHP line-II on Standby.
		Unit-II	28.20	132kV NHP-MHP-II	0.00	
		Total	28.20	Auxiliary Consumption & Transformation Losses at Generator end	0.32%	
10	2 x 9MW SHP	Unit- I	0.00	66kV SHP-Damdhum (Samtse)	0.00	Unit I under shutdown. Interim measure: evacuation is through 33kV system.
		Unit- II	4.90	-	-	
		Total	4.90	Auxiliary Consumption & Transformation Losses at Generator end	100.00%	

Note: Generation-Load Summary (MW) for 01-May-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)	1,146.40	887.50	258.90

Note: Generation-Load Summary (MW) for 01-May-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)	855.05	818.66	36.39

Note: Daily Energy (MUs) and Power(MW) Statistics for 01-May-2025

Sl. No.	Total Energy Generation	Daily Energy Met	Net Energy Import (IEX and Solar)	Net Energy Export	Peak Cross-border (MW)
1	30.37	21.38	0.00	8.80	615.15

- 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.