



THE DAILY BHUTAN POWER SYSTEM OPERATOR LOAD-GENERATION BALANCE REPORT & ENERGY FIGURES ISSUED ON 04-May-2025(-ve:import, +ve:export)						
Report Details	Date	Time	National Coincidental Peak Load (MW)		Date	Time
	May 3, 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	31.37	Unit-I, II & III under shutdown for Penstock Cleaning. 400kV THP-SIL Line II & IV on Standby.
		Unit- II	0.00	400kV THP - Siliguri Line - II	0.00	
		Unit- III	0.00	400kV THP - Siliguri Line - IV	0.00	
		Unit- IV	110.05	400kV THP - Malbase Line - III	269.39	
		Unit- V	118.92	400kV Malbase - Siliguri Line	-23.27	
		Unit- VI	71.65	-	-	
		Total	300.62	Auxiliary Consumption & Transformation Losses at Generator end	-0.05%	
2	4 x 180MW MHP	Unit-I	60.24	400kV MHP - Jigmeling Line - I	0.00	Unit-II under AMP. 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	55.43	400kV MHP - Jigmeling Line - III	68.27	
		Unit-IV	55.26	400kV MHP - Jigmeling Line - IV	67.84	
		-	-	132kV MHP - Yurmo Line - I	0.00	
		-	-	132kV MHP - Yurmo Line - II	61.77	
		-	-	500MVA, 400/220kV ICT at Jigmeling (HV)	184.06	
		-	-	400kV Jigmeling - Alipurduar Line - I	92.36	
		-	-	400kV Jigmeling - Alipurduar Line - II	90.91	
		-	-	80MVA, 220/132kV ICT - I (HV)	24.46	
		-	-	80MVA, 220/132kV ICT - II (HV)	24.22	
		-	-	220kV Tsirang - Jigmeling Line	-109.10	
		-	-	132kV Gelephu - Salakati Line	-11.44	
		Total	170.93	Auxiliary Consumption & Transformation Losses at Generator end	0.47%	
3	6 x 170MW PHP-II	Unit- I	50.00	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	234.89	
		Unit- III	185.00	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	235.00	Auxiliary Consumption & Transformation Losses at Generator end	0.05%	
4	4 x 84MW CHP	Unit- I	79.54	220kV CHP - Birpara Line - I	-43.60	Unit-IV under Shutdown . Unit-II under AMP.
		Unit- II	0.00	220kV CHP - Birpara Line - II	-43.20	
		Unit- III	75.73	220kV CHP - Gedu	12.41	
		Unit- IV	0.00	220kV CHP - Jamjee - I	75.93	
		-	-	220kV CHP - Jamjee - II	75.20	
		-	-	220kV CHP - Jamjee - III	72.60	
		-	-	220kV Malbase - Birpara Line	-38.72	
		-	-	66kV CHP - Gedu Line	7.55	
		-	-	3x3MVA, 66/11kV TFR	1.32	
		Total	155.27	Auxiliary Consumption & Transformation Losses at Generator end	-1.89%	
5	2 x 12MW BHP (U/S)	Unit- I	3.00	220kV BHP - Semtokha Line	101.00	
		Unit- II	3.00	66kV BHP - Lobeysa Line	24.00	
		Total	6.00	220kV BHP - Tsirang Line	-105.21	
6	2 x 20MW BHP (L/S)	Unit- I	6.80	5MVA, 66/11kV TFR	0.40	
		Unit- II	7.00	30MVA ICT, 220/66kV (HV)	18.70	
		Total	13.80	Auxiliary Consumption & Transformation Losses at Generator end	-1.97%	
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	24.27	220kV DHP - Dagapela Line	24.10	
		-	-	220kV Jigmeling - Dagapela Line	25.58	
		-	-	5MVA, 220/33kV TFR	0.20	
8	4 x 15MW KHP	Total	24.27	Auxiliary Consumption & Transformation Losses at Generator end	-0.12%	Unit- IV on Standby.
		Unit- I	11.13	132kV KHP - Nangkhori Line	19.06	
		Unit- II	11.15	132kV KHP - Kilikhar Line	13.80	
		Unit- III	11.16	5MVA, 132/11kV TFR	0.23	
9	2 x 59MW NHP	Unit- IV	0.00	132kV Motanga - Rangia Line	9.78	
		Total	33.44	Auxiliary Consumption & Transformation Losses at Generator end	1.05%	
		Unit-I	0.00	132kV NHP-MHP-I	27.75	
		Unit-II	28.01	132kV NHP-MHP-II	0.00	
10	2 x 9MW SHP	Total	28.01	Auxiliary Consumption & Transformation Losses at Generator end	0.93%	Unit-I under Shutdown. 132kV NHP-MHP line-II on Standby.
		Unit- I	0.00	66kV SHP-Damdhum (Samtse)	0.00	
		Unit- II	3.05	-	-	
		Total	3.05	Auxiliary Consumption & Transformation Losses at Generator end	100.00%	

Note: Generation-Load Summary (MW) for 03-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)	970.39	906.20	64.19

Note: Generation-Load Summary (MW) for 03-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)	684.28	718.68	-34.40

Note: Daily Energy (MUs) and Power(MW) Statistics for 03-May-2025

Sl. No.	Total Energy Generation	Daily Energy Met	Net Energy Import (IEX and Solar)	Net Energy Export	Peak Cross-border (MW)
1	26.29	21.25	0.00	4.86	450.64

- 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.