



THE DAILY BHUTAN POWER SYSTEM OPERATOR LOAD-GENERATION BALANCE REPORT & ENERGY FIGURES ISSUED ON 11-May-2025(-ve:import, +ve:export)						
Report	Date	Time	National Coincidental Peak Load (MW)		Date	Time
Details	May 10, 2025	19:00:00			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	98.45	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	149.98	400kV THP - Malbase Line - III	332.22	
		Unit- V	139.62	400kV Malbase - Siliguri Line	40.00	
		Unit- VI	140.91	-	-	
		Total	430.51	Auxiliary Consumption & Transformation Losses at Generator end	-0.04%	
2	4 x 180MW MHP	Unit-I	136.13	400kV MHP - Jigmeling Line - I	0.00	Unit-II under Shutdown. 400kV MHP-JLG line-I&II on Standby. 132kV MHP_Yurmoo Line- I not in Service.
		Unit-II	0.00	400kV MHP - Jigmeling Line - II	0.00	
		Unit-III	61.08	400kV MHP - Jigmeling Line - III	120.62	
		Unit-IV	61.01	400kV MHP - Jigmeling Line - IV	129.82	
		-	-	132kV MHP - Yurmo Line - I	0.00	
		-	-	132kV MHP - Yurmo Line - II	45.73	
		-	-	500MVA, 400/220kV ICT at Jigmeling (HV)	17.72	
		-	-	400kV Jigmeling - Alipurduar Line - I ; direct lines	110.55	
		-	-	400kV Jigmeling - Alipurduar Line - II ;	109.09	
		-	-	80MVA, 220/132kV ICT - I (HV)	25.45	
		-	-	80MVA, 220/132kV ICT - II (HV)	25.20	
		-	-	220kV Tsirang - Jigmeling Line	-103.78	
		-	-	132kV Gelephu - Salakati Line	-13.82	
		Total	258.22	Auxiliary Consumption & Transformation Losses at Generator end	-3.95%	
3	6 x 170MW PHP-II	Unit- I	187.00	400kV PHP II - Jigmeling -I	185.56	Unit-II under breakdown. Unit III tripped @ 12:50hrs. 400kV PHP-II - Jigmeling Line-II under shutdown.
		Unit- II	0.00	400kV PHP II - Jigmeling -II	0.00	
		Unit- III	0.00	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	187.00	Auxiliary Consumption & Transformation Losses at Generator end	0.77%	
4	4 x 84MW CHP	Unit- I	69.69	220kV CHP - Birpara Line - I	-29.42	Unit-IV under Shutdown.
		Unit- II	69.49	220kV CHP - Birpara Line - II	-29.20	
		Unit- III	70.90	220kV CHP - Gedu	20.10	
		Unit- IV	0.00	220kV CHP - Jamjee - I	81.84	
		-	-	220kV CHP - Jamjee - II	81.16	
		-	-	220kV CHP - Jamjee - III	78.41	
		-	-	220kV Malbase - Birpara Line	-20.90	
		-	-	66kV CHP - Gedu Line	6.09	
		-	-	3x3MVA, 66/11kV TFR	1.55	
		Total	210.08	Auxiliary Consumption & Transformation Losses at Generator end	-0.21%	
5	2 x 12MW BHP (U/S)	Unit- I	5.30	220kV BHP - Semtokha Line	89.23	U/S Unit-II & L/S Unit I on standby.
		Unit- II	0.00	66kV BHP - Lobeysa Line	24.32	
		Total	5.30	220kV BHP - Tsirang Line	-99.32	
	2 x 20MW BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.61	
		Unit- II	9.40	30MVA ICT, 220/66kV (HV)	19.97	
		Total	9.40	Auxiliary Consumption & Transformation Losses at Generator end	-0.95%	
7	2 x 63MW DHP	Unit-I	18.96	220kV DHP - Tsirang Line	0.00	Unit-II is Standby. 220kV DHP-TSI line kept on idle charge.
		Unit-II	0.00	220kV DHP - Dagapela Line	18.75	
		-	-	220kV Jigmeling - Dagapela Line	31.75	
		-	-	5MVA, 220/33kV TFR	0.20	
		Total	18.96	Auxiliary Consumption & Transformation Losses at Generator end	0.05%	
8	4 x 15MW KHP	Unit- I	12.06	132kV KHP - Nangkhon Line	19.44	Unit- II on Standby.
		Unit-II	0.00	132kV KHP - Kilikhar Line	16.17	
		Unit- III	12.08	5MVA, 132/11kV TFR	0.37	
		Unit- IV	12.21	132kV Motanga - Rangia Line	-6.10	
		Total	36.35	Auxiliary Consumption & Transformation Losses at Generator end	1.02%	
9	2 x 59MW NHP	Unit-I	0.00	132kV NHP-MHP-I	27.75	Unit-I under Shutdown. 132kV NHP-MHP line-II on Standby.
		Unit-II	27.99	132kV NHP-MHP-II	0.00	
		Total	27.99	Auxiliary Consumption & Transformation Losses at Generator end	0.86%	
10	2 x 9MW SHP	Unit- I	1.70	66kV SHP-Damdhum (Samtse)	0.00	Interim measure: evacuation is through 33kV system.
		Unit- II	4.05	-	-	
		Total	5.75	Auxiliary Consumption & Transformation Losses at Generator end	100.00%	

Note: Generation-Load Summary (MW) for 10-May-2025 at 19:00 hrs

Sl. No.	Region	Total Generation	Total Domestic Load (Total Generation - Total Export)	Total Export(+ve)/ Import(-ve)
1	Both Eastern & Western (Whole Bhutan)	1,189.56	930.91	258.65

Note: Generation-Load Summary (MW) for 10-May-2024, at 19:00 hrs

Sl. No.	Region	Total Generation	Total Domestic Load (Total Generation - Total Export)	Total Export(+ve)/ Import(-ve)
1	Both Eastern & Western (Whole Bhutan)	977.57	933.09	40.21

Note: Daily Energy (MUs) and Power(MW) Statistics for 10-May-2025

Sl. No.	Total Energy Generation	Daily Energy Met	Net Energy Import (IEX and Solar)	Net Energy Export	Peak Cross-border (MW)
1	24.77	19.93	0.00	4.71	645.90

- 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.