

THE DAILY BHUTAN POWER SYSTEM OPERATOR LOAD-GENERATION BALANCE REPORT & ENERGY FIGURES ISSUED ON 11-Jul-2025(-ve:import, +ve:export)							
Report Details	Date	Time	National Coincidental Peak Load (MW)		Date	Time	Load
	July 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	187.52	400kV THP - Siliguri Line - I	137.20		
		Unit- II	187.14	400kV THP - Siliguri Line - II	135.96		
		Unit- III	60.07	400kV THP - Siliguri Line - IV	130.02		
		Unit- IV	171.53	400kV THP - Malbase Line - III	342.49		
		Unit- V	75.96	400kV Malbase - Siliguri Line	86.00		
		Unit- VI	70.23	-	-		
		Total	752.45	Auxiliary Consumption & Transformation Losses at Generator end	0.90%		
2	4 x 180MW MHP	Unit-I	145.77	400kV MHP - Jigmeling Line - I	203.83	400kV MHP-JLG Line- II on standby.	
		Unit-II	150.10	400kV MHP - Jigmeling Line - II	0.00		
		Unit-III	147.82	400kV MHP - Jigmeling Line - III	211.46		
		Unit-IV	146.59	400kV MHP - Jigmeling Line - IV	211.21		
		-	-	220kV Jigmeling - BitDeer Line - I	45.62		
		-	-	220kV Jigmeling - BitDeer Line - II	44.45		
		-	-	500MVA, 400/220kV ICT at Jigmeling (HV)	208.00		
		-	-	400kV Jigmeling - Alipurduar Line - I	362.18		
		-	-	400kV Jigmeling - Alipurduar Line - II	361.46		
		-	-	80MVA, 220/132kV ICT - I (HV)	58.03		
		-	-	80MVA, 220/132kV ICT - II (HV)	57.61		
		-	-	132kV MHP - Yurmo Line - II	60.83		
		-	-	132kV Gelephu - Salakati Line	16.30		
		Total	590.28	Auxiliary Consumption & Transformation Losses at Generator end	0.38%		
3	6 x 170MW PHP-II	Unit- I	186.15	400kV PHP II - Jigmeling -I	156.76	400kV PHP II-Alipurduar I not in service.	
		Unit- II	186.60	400kV PHP II - Jigmeling -II	155.84		
		Unit- III	187.61	400kV PHP II - Alipurduar -I	0.00		
		Unit- IV	186.20	400kV PHP II - Alipurduar -II	438.19		
		Unit- V	0.00	-	-		
		Unit- VI	0.00	-	-		
		Total	746.56	Auxiliary Consumption & Transformation Losses at Generator end	-0.57%		
4	4 x 84MW CHP	Unit- I	91.39	220kV CHP - Birpara Line - I	26.85		
		Unit- II	91.31	220kV CHP - Birpara Line - II	26.51		
		Unit- III	91.12	220kV CHP - Gedu	121.90		
		Unit- IV	91.40	220kV CHP - Jamjee - I	60.08		
		-	-	220kV CHP - Jamjee - II	59.79		
		-	-	220kV CHP - Jamjee - III	57.51		
		-	-	220kV Malbase - Birpara Line	-6.20		
		-	-	66kV CHP - Gedu Line	10.04		
		-	-	3x3MVA, 66/11kV TFR	1.43		
		Total	365.22	Auxiliary Consumption & Transformation Losses at Generator end	0.30%		
5	2 x 12MW BHP (U/S)	Unit- I	6.80	220kV BHP - Semtokha Line	117.15		
		Unit- II	8.19	66kV BHP - Lobessa Line	24.26		
		Total	14.99	220kV BHP - Tsirang Line	-100.67		
6	2 x 20MW BHP (L/S)	Unit- I	12.78	5MVA, 66/11kV TFR	0.58		
		Unit- II	13.21	30MVA ICT, 220/66kV (HV)	10.33		
		Total	25.99	Auxiliary Consumption & Transformation Losses at Generator end	-0.83%		
7	2 x 63MW DHP	Unit-I	31.31	220kV DHP - Tsirang Line	62.34	220kV DHP - Dagapela Line on standby.	
		Unit-II	31.47	220kV DHP - Dagapela Line	0.00		
		-	-	220kV BitDeer - Dagapela Line	52.03		
		-	-	5MVA, 220/33kV TFR	0.28		
		Total	62.78	Auxiliary Consumption & Transformation Losses at Generator end	0.25%		
8	4 x 15MW KHP	Unit- I	16.41	132kV KHP - Nangkhon Line	41.08		
		Unit-II	16.61	132kV KHP - Kilikhar Line	24.07		
		Unit- III	16.48	5MVA, 132/11kV TFR	0.31		
		Unit- IV	16.49	132kV Motanga - Rangia Line	34.21		
		Total	65.99	Auxiliary Consumption & Transformation Losses at Generator end	0.80%		
9	2 x 59MW NHP	Unit-I	50.07	132kV NHP-MHP-I	49.59		
		Unit-II	49.96	132kV NHP-MHP-II	49.69		
		Total	100.03	Auxiliary Consumption & Transformation Losses at Generator end	0.75%		
10	2 x 9MW SHP	Unit- I	5.00	66kV SHP-Damdhum (Samtse)	0.00	Interim measure: evacuation is through 33kV system.	
		Unit- II	5.00	-	-		
		Total	10.00	Auxiliary Consumption & Transformation Losses at Generator end	100.00%		
Note: Generation-Load Summary (MW) for 10-Jul-2025 at 19:00 hrs							
Sl. No.	Region	Total Generation	Total Domestic Load (Total Generation - Total Export)		Total Export(+ve)/ Import(-ve)	19:00 hrs Statistical Comparison (MW) for this and last year	
1	Both Eastern & Western (Whole Bhutan)	2,734.29	985.61		1,748.68	Tt. Exp./Imp. 1,576.32 1,748.68	
Note: Generation-Load Summary (MW) for 10-Jul-2024, at 19:00 hrs							
Sl. No.	Region	Total Generation	Total Domestic Load (Total Generation - Total Export)		Total Export(+ve)/ Import(-ve)	Tt.Load 897.30 985.61	
1	Both Eastern & Western (Whole Bhutan)	2,473.62	897.30		1,576.32		
Note: Daily Energy (MUs) and Power(MW) Statistics for 10-Jul-2025							
Sl. No.	Total Energy Generation	Daily Energy Met	Net Energy Import (IEX and Solar)	Net Energy Export	Peak Cross-border (MW)	Tt. Gen. 2,473.62 2,134.29	
1	68.45	22.63	0.00	45.99	2,129.37	Y-2024 Y-2025	

1. The Instantaneous load balance does not tend towards zero. This could be due to the following reasons:

i) Not all the meters are digital and nor 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.

2. 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.

3. When SCADA data are unavailable for certain stations due to technical issues, required data are collected from the site.