

THE DAILY BHUTAN POWER SYSTEM OPERATOR LOAD-GENERATION BALANCE REPORT & ENERGY FIGURES ISSUED ON 16-Apr-2025(-ve:import, +ve:export)							
Report Details	Date	Time	National Coincidental Peak Load (MW)		Date	Time	Load
	April 15, 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 & III under Shutdown Unit- II on Standby. 400kV THP-SIL Line I on Standby. 400kV THP-SIL Line IV under Shutdown .	
		Unit-II	0.00	400kV THP - Siliguri Line - II	22.18		
		Unit-III	0.00	400kV THP - Siliguri Line - IV	0.00		
		Unit-IV	0.00	400kV THP - Malbase Line - III	278.64		
		Unit-V	151.00	400kV Malbase - Siliguri Line	-34.18		
		Unit-VI	151.00	-	-		
		Total	302.00	Auxiliary Consumption & Transformation Losses at Generator end	0.39%		
2	4 x 180MW MHP	Unit-I	131.05	400kV MHP - Jigmeling Line - I	0.00	Unit II under AMP. Unit III on Standby. 400kV MHP-JLG Line I & line IV on standby. 132kV MHP-Yurmoo Line-I not in Service.	
		Unit-II	0.00	400kV MHP - Jigmeling Line - II	77.16		
		Unit-III	0.00	400kV MHP - Jigmeling Line - III	77.63		
		Unit-IV	70.22	400kV MHP - Jigmeling Line - IV	0.00		
		-	-	132kV MHP - Yurmo Line - I	0.00		
		-	-	132kV MHP - Yurmo Line - II	63.18		
		-	-	500MVA, 400/220kV ICT at Jigmeling (HV)	214.91		
		-	-	400kV Jigmeling - Alipurduar Line - I	118.15		
		-	-	400kV Jigmeling - Alipurduar Line - II	117.09		
		-	-	80MVA, 220/132kV ICT - I (HV)	-25.12		
		-	-	80MVA, 220/132kV ICT - II (HV)	-24.89		
		-	-	220kV Tsirang - Jigmeling Line	-115.44		
		-	-	132kV Gelephu - Salakati Line	-15.05		
		Total	201.27	Auxiliary Consumption & Transformation Losses at Generator end	0.65%		
		3	6 x 170MW PHP-II	Unit-I	0.00		
Unit-II	145.00			400kV PHP II - Jigmeling -II	299.80		
Unit-III	155.00			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	300.00			Auxiliary Consumption & Transformation Losses at Generator end	0.07%		
4	4 x 84MW CHP	Unit-I	0.00	220kV CHP - Birpara Line - I	-62.71	Unit-II under AMP. Unit-I under Shutdown.	
		Unit-II	0.00	220kV CHP - Birpara Line - II	-61.54		
		Unit-III	55.33	220kV CHP - Gedu	-10.76		
		Unit-IV	56.30	220kV CHP - Jamjee - I	80.70		
		-	-	220kV CHP - Jamjee - II	79.60		
		-	-	220kV CHP - Jamjee - III	77.01		
		-	-	220kV Malbase - Birpara Line	-56.00		
		-	-	66kV CHP - Gedu Line	5.88		
		-	-	3x3MVA, 66/11kV TFR	1.61		
		Total	111.63	Auxiliary Consumption & Transformation Losses at Generator end	1.65%		
5	2 x 12MW BHP (U/S)	Unit-I	4.30	220kV BHP - Semtokha Line	112.70	U/S Unit-II & L/S Unit-II on Standby	
		Unit-II	0.00	66kV BHP - Lobeyssa Line	25.86		
		Total	4.30	220kV BHP - Tsirang Line	-126.04		
6	2 x 20MW BHP (L/S)	Unit-I	9.00	5MVA, 66/11kV TFR	0.48		
		Unit-II	0.00	30MVA ICT, 220/66kV (HV)	22.40		
		Total	9.00	Auxiliary Consumption & Transformation Losses at Generator end	2.26%		
7	2 x 63MW DHP	Unit-I	0.00	220kV DHP - Tsirang Line	15.56	Unit-I on Standby. 220kV DHP-Dagapela line on Standby	
		Unit-II	15.74	220kV DHP - Dagapela Line	0.00		
		-	-	220kV Jigmeling - Dagapela Line	50.13		
		-	-	5MVA, 220/33kV TFR	0.17		
		Total	15.74	Auxiliary Consumption & Transformation Losses at Generator end	0.06%		
8	4 x 15MW KHP	Unit-I	0.00	132kV KHP - Nangkhor Line	14.17	Unit - I & II on Standby.	
		Unit-II	0.00	132kV KHP - Kilikhar Line	13.79		
		Unit-III	14.10	5MVA, 132/11kV TFR	0.25		
		Unit-IV	14.00	132kV Motanga - Rangia Line	-7.49		
		Total	28.10	Auxiliary Consumption & Transformation Losses at Generator end	-0.38%		
9	2 x 59MW NHP	Unit-I	0.00	132kV NHP-MHP-I	18.00	Unit-I on Standby. 132kV NHP-MHP line-II on Standby.	
		Unit-II	18.03	132kV NHP-MHP-II	0.00		
		Total	18.03	Auxiliary Consumption & Transformation Losses at Generator end	0.17%		
10	2 x 9MW SHP	Unit-I	0.00	66kV SHP-Damdhum (Samtse)	0.00	Unit I under Shutdown Interim measure: evacuation is through the 33kV system. Unit-I under breakdown.	
		Unit-II	3.38	-	-		
		Total	3.38	Auxiliary Consumption & Transformation Losses at Generator end	100.00%		

Note: Generation-Load Summary (MW) for 15-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)	993.45	973.00	20.45

Note: Generation-Load Summary (MW) for 15-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)	316.75	871.33	-554.58

Note: Daily Energy (MUs) and Power(MW) Statistics for 15-Apr-2025

Sl. No.	Total Energy Generation	Daily Energy Met	Net Energy Import (IEX and Solar)	Net Energy Export	Peak Cross-border (MW)
1	17.17	22.22	5.45	0.38	-594.68

- 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 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.
 - 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.