



Sl. No.	Region	Total Generation	Total Domestic Load (Total Generation - Total Export)	Total Export(+ve)/ Import(-ve)
1	Both Eastern & Western (Whole Bhutan)	808.94	785.64	23.30

THE DAILY BHUTAN POWER SYSTEM OPERATOR LOAD-GENERATION BALANCE REPORT & ENERGY FIGURES ISSUED ON 20-Apr-2025(-ve:import, +ve:export)						
Report	Date	Time	National Coincidental Peak Load (MW)		Date	Time
Details	April 19, 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	3.49	
		Unit- III	0.00	400kV THP - Siliguri Line - IV	0.00	
		Unit- IV	0.00	400kV THP - Malbase Line - III	256.68	
		Unit- V	128.89	400kV Malbase - Siliguri Line	-48.70	
		Unit- VI	131.29	-	-	
		Total	260.18	Auxiliary Consumption & Transformation Losses at Generator end	0.00%	
2	4 x 180MW MHP	Unit-I	0.00	400kV MHP - Jigmeling Line - I	0.00	Unit II under AMP. Unit I on Standby. 400kV MHP-JLG Line I & 400kV MHP-JLG Line IV on Standby. 132kV MHP-Yurmoo Line-I not in Service.
		Unit-II	0.00	400kV MHP - Jigmeling Line - II	87.81	
		Unit-III	71.10	400kV MHP - Jigmeling Line - III	88.50	
		Unit-IV	150.58	400kV MHP - Jigmeling Line - IV	0.00	
		-	-	132kV MHP - Yurmo Line - I	0.00	
		-	-	132kV MHP - Yurmo Line - II	61.61	
		-	-	500MVA, 400/220kV ICT at Jigmeling (HV)	209.46	
		-	-	400kV Jigmeling - Alipurduar Line - I ; direct lines	110.00	
		-	-	400kV Jigmeling - Alipurduar Line - II ;	128.57	
		-	-	80MVA, 220/132kV ICT - I (HV)	0.07	
		-	-	80MVA, 220/132kV ICT - II (HV)	54.69	
		-	-	220kV Tsirang - Jigmeling Line	-107.95	
		-	-	132kV Gelephu - Salakati Line	-12.83	
		Total	221.68	Auxiliary Consumption & Transformation Losses at Generator end	0.72%	
3	6 x 170MW PHP-II	Unit- I	0.00	400kV PHP II - Jigmeling -I	0.00	Unit-I on Standby 400kV PHP-II - Jigmeling Line-I on Standby.
		Unit- II	139.30	400kV PHP II - Jigmeling -II	287.09	
		Unit- III	144.46	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	283.76	Auxiliary Consumption & Transformation Losses at Generator end	-1.17%	
4	4 x 84MW CHP	Unit- I	0.00	220kV CHP - Birpara Line - I	-53.48	Unit-II under AMP. Unit-I under Shutdown.
		Unit- II	0.00	220kV CHP - Birpara Line - II	-52.78	
		Unit- III	57.98	220kV CHP - Gedu	12.13	
		Unit- IV	61.98	220kV CHP - Jamjee - I	69.80	
		-	-	220kV CHP - Jamjee - II	69.28	
		-	-	220kV CHP - Jamjee - III	66.66	
		-	-	220kV Malbase - Birpara Line	-55.08	
		-	-	66kV CHP - Gedu Line	7.01	
		-	-	3x3MVA, 66/11kV TFR	1.35	
		Total	119.96	Auxiliary Consumption & Transformation Losses at Generator end	-0.01%	
5	2 x 12MW BHP (U/S)	Unit- I	5.00	220kV BHP - Semtokha Line	113.00	U/S Unit-II & L/S Unit-II on Standby
		Unit- II	0.00	66kV BHP - Lobeysa Line	23.91	
		Total	5.00	220kV BHP - Tsirang Line	-122.75	
6	2 x 20MW BHP (L/S)	Unit- I	9.41	5MVA, 66/11kV TFR	0.52	
		Unit- II	0.00	30MVA ICT, 220/66kV (HV)	19.72	
		Total	9.41	Auxiliary Consumption & Transformation Losses at Generator end	-1.87%	
7	2 x 63MW DHP	Unit-I	0.00	220kV DHP - Tsirang Line	18.03	Unit-I on Standby. 220kV DHP-Dagapela line on Standby
		Unit-II	18.26	220kV DHP - Dagapela Line	0.00	
		-	-	220kV Jigmeling - Dagapela Line	51.56	
		-	-	5MVA, 220/33kV TFR	0.20	
		Total	18.26	Auxiliary Consumption & Transformation Losses at Generator end	0.16%	
8	4 x 15MW KHP	Unit- I	0.00	132kV KHP - Nangkhor Line	14.91	Unit- I & Unit-II on Standby.
		Unit-II	0.00	132kV KHP - Kiltkhar Line	12.95	
		Unit- III	14.22	5MVA, 132/11kV TFR	0.34	
		Unit- IV	14.17	132kV Motanga - Rangia Line	11.86	
		Total	28.39	Auxiliary Consumption & Transformation Losses at Generator end	0.67%	
9	2 x 59MW NHP	Unit-I	0.00	132kV NHP-MHP-I	17.84	Unit-I on Standby. 132kV NHP-MHP line-II on Standby.
		Unit-II	18.00	132kV NHP-MHP-II	0.00	
		Total	18.00	Auxiliary Consumption & Transformation Losses at Generator end	0.89%	
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	4.03	-	-	
		Total	4.03	Auxiliary Consumption & Transformation Losses at Generator end	100.00%	

Note: Generation-Load Summary (MW) for 19-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)	968.67	937.62	31.05

Note: Generation-Load Summary (MW) for 19-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)	941.82	897.45	44.37

Note: Daily Energy (MUs) and Power(MW) Statistics for 19-Apr-2025

Sl. No.	Total Energy Generation	Daily Energy Met	Net Energy Import (IEX and Solar)	Net Energy Export	Peak Cross-border (MW)
1	21.48	21.73	2.18	1.85	308.37

- 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.