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Ministry of Energy and Natural Resources
Royal Government of Bhutan
Bhutan Power System Operator
Thimphu: Bhutan



THE DAILY BHUTAN POWER SYSTEM OPERATOR LOAD-GENERATION BALANCE REPORT & ENERGY FIGURES ISSUED ON 02-Nov-2025(+ve:import, +ve:export)						
Report Details	Date	Time	National Coincidental Peak Load (MW)		Date	Time
	November 1, 2025	9:00 AM			17-Oct-25	18:37:35
						Load
						1,330.52
Sl. No.	Hydropower Plant	Unit	MW	Transmission Lines and Elements	Load (MW)	Remarks
1	6 x 170MW THP	Unit-I	120.77	400kV THP - Siliguri Line - I	129.92	All Units and Feeders in Service. Not able to Generate at full load due to low pressure at penstock branch bypass chamber(BVC).
		Unit-II	120.90	400kV THP - Siliguri Line - II	128.42	
		Unit-III	119.98	400kV THP - Siliguri Line- IV	122.20	
		Unit-IV	120.46	400kV THP - Malbase Line - III	337.67	
		Unit-V	121.63	400kV Malbase - Siliguri Line	77.00	
		Unit-VI	120.31	-	-	
		Total	724.05	Auxiliary Consumption & Transformation Losses at Generator end	0.81%	
2	4 x 180MW MHP	Unit-I	149.83	400kV MHP - Jigmeling Line - I	0.00	Not able to generate at full load to less Inflow. 400kV MHP-JIG Line - I kept on Standby as other three lines can cater the load.
		Unit-II	154.93	400kV MHP - Jigmeling Line - II	202.17	
		Unit-III	150.82	400kV MHP - Jigmeling Line - III	210.16	
		Unit-IV	165.66	400kV MHP - Jigmeling Line - IV	209.00	
		-	-	220kV Jigmeling - BitDeer Line - I	165.00	
		-	-	220kV Jigmeling - BitDeer Line - II	148.20	
		-	-	500MVA, 400/220kV ICT at Jigmeling (HV)	417.09	
		-	-	400kV Jigmeling - Alipurduar Line - I	264.00	
		-	-	400kV Jigmeling - Alipurduar Line - II	263.27	
		-	-	80MVA, 220/132kV ICT - I (HV)	44.46	
		-	-	80MVA, 220/132kV ICT - II (HV)	43.96	
		-	-	132kV MHP - Yurmo Line - II	67.52	
		-	-	132kV MHP - Tintibi Line	20.84	
		-	-	132kV Gelephu - Salakati Line	-22.10	
		Total	621.24	Auxiliary Consumption & Transformation Losses at Generator end	0.16%	
3	6 x 170MW PHP-II	Unit-I	154.00	400kV PHP II - Jigmeling -I	147.80	Unit-V taken Shutdown for runner Inspection. Unit-VI on Standby. 400kV PHP II - Alipurduar -I not in Service.
		Unit-II	160.00	400kV PHP II - Jigmeling -II	147.90	
		Unit-III	186.76	400kV PHP II - Alipurduar -I	0.00	
		Unit-IV	150.00	400kV PHP II - Alipurduar -II	345.83	
		Unit-V	0.00	-	-	
		Unit-VI	0.00	-	-	
		Total	650.76	Auxiliary Consumption & Transformation Losses at Generator end	1.42%	
4	4 x 84MW CHP	Unit-I	91.39	220kV CHP - Birpara Line - I	-1.60	All Units & Feeders in Service.
		Unit-II	91.14	220kV CHP - Birpara Line - II	-1.84	
		Unit-III	91.81	220kV CHP - Gedu	96.60	
		Unit-IV	91.35	220kV CHP - Jamjee - I	87.84	
		-	-	220kV CHP - Jamjee - II	92.50	
		-	-	220kV CHP - Jamjee - III	81.50	
		-	-	220kV Malbase - Birpara Line	-36.00	
		-	-	66kV CHP - Gedu Line	8.92	
		Total	365.69	Auxiliary Consumption & Transformation Losses at Generator end	0.48%	
5	2 x 12MW BHP (U/S)	Unit-I	12.06	220kV BHP - Semtokha Line	62.50	All Units and Feeders in Service.
		Unit-II	12.10	66kV BHP - Lobeysa Line	25.76	
		Total	24.16	220kV BHP - Tsirang Line	-22.90	
6	2 x 20MW BHP (L/S)	Unit-I	20.93	5MVA, 66/11kV TFR	0.18	
		Unit-II	21.11	30MVA ICT, 220/66kV (HV)	2.39	
		Total	42.04	Auxiliary Consumption & Transformation Losses at Generator end	1.00%	
7	2 x 63MW DHP	Unit-I	0.00	220kV DHP - Tsirang Line	0.00	Total Plant Shutdown from 10:27 hrs (09.10.2025) due to seepage in HRC. 220kV_DHP-TSI line on Standby due to unavailability of DHP Units. 220kV DHP-DAG line is feeding DHP auxiliary consumption.
		Unit-II	0.00	220kV DHP - Dagapela Line	0.00	
		-	-	220kV BitDeer - Dagapela Line	50.35	
		-	-	5MVA, 220/33kV TFR	0.00	
		Total	0.00	Auxiliary Consumption & Transformation Losses at Generator end	0.00%	
8	4 x 15MW KHP	Unit-I	16.54	132kV KHP - Nangkhor Line	42.14	All Units and Feeders in Service.
		Unit-II	16.56	132kV KHP - Kilikhar Line	23.16	
		Unit-III	16.62	5MVA, 132/11kV TFR	0.23	
		Unit-IV	16.57	132kV Motanga - Rangia Line	15.11	
		Total	66.29	Auxiliary Consumption & Transformation Losses at Generator end	1.15%	
9	2 x 59MW NHP	Unit-I	44.98	132kV NHP-MHP-I	44.72	All Units and Feeders in Service..
		Unit-II	45.00	132kV NHP-MHP-II	44.71	
		Total	89.98	Auxiliary Consumption & Transformation Losses at Generator end	0.61%	
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%	
11	17.38 MWp Sephu (Solar)	Inverter-1	0.12	33kV SSP-Wangdue	0.36	All Inverters and Feeders in Service.
		Inverter-2	0.18	33kV SSP-Trongsa	0.37	
		Inverter-3	0.20	-	-	
		Inverter-4	0.22	-	-	
		Total	0.72	Auxiliary Consumption & Transformation Losses at Generator end	-0.97%	

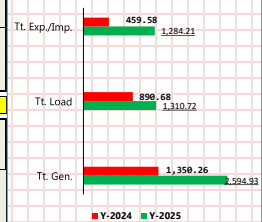
Note: Generation-Load Summary (MW) for 01-Nov-25 at 09:00 hrs

Sl. No.	Region	Total Generation	Total Domestic Load (Total Generation - Total Export)	Total Export(+ve)/ Import(-ve)
1	Both Eastern & Western (Whole Bhutan)	2,594.93	1,310.72	1,284.21

Note: Generation-Load Summary (MW) for 01-Nov-24 at 09:00 hrs

Sl. No.	Region	Total Generation	Total Domestic Load (Total Generation - Total Export)	Total Export(+ve)/ Import(-ve)
1	Both Eastern & Western (Whole Bhutan)	1,350.26	890.68	459.58

09:00 hrs Statistical Comparison
(MW) for this and last year



THE DAILY BHUTAN POWER SYSTEM OPERATOR LOAD-GENERATION BALANCE REPORT & ENERGY FIGURES ISSUED ON 02-Nov-2025(-ve:import, +ve:export)							
Report Details	Date	Time	National Coincidental Peak Load (MW)		Date	Time	Load
	November 1, 2025	19:00:00			17-Oct-25	18:37:35	1,330.52
Sl. No.	Hydropower Plant	Unit	MW	Transmission Lines and Elements	Load (MW)	Remarks	
1	6 x 170MW THP	Unit- I	187.69	400kV THP - Siliguri Line - I	222.16	All Units and Feeders in Service.	
		Unit- II	187.71	400kV THP - Siliguri Line - II	220.77		
		Unit- III	186.95	400kV THP - Siliguri Line - IV	212.17		
		Unit- IV	187.11	400kV THP - Malbase Line - III	459.96		
		Unit- V	186.91	400kV Malbase - Siliguri Line	157.09		
		Unit- VI	187.40	-	-		
		Total	1,123.77	Auxiliary Consumption & Transformation Losses at Generator end	0.78%		
2	4 x 180MW MHP	Unit-I	197.97	400kV MHP - Jigmeling Line - I	0.00	400kV MHP-JIG Line I kept on Standby as other three lines can cater the load.	
		Unit-II	197.28	400kV MHP - Jigmeling Line - II	255.19		
		Unit-III	191.45	400kV MHP - Jigmeling Line - III	265.08		
		Unit-IV	198.38	400kV MHP - Jigmeling Line - IV	263.94		
		-	-	220kV Jigmeling - BitDeer Line - I	38.06		
		-	-	220kV Jigmeling - BitDeer Line - II	0.00		
		-	-	500MVA, 400/220kV ICT at Jigmeling (HV)	428.00		
		-	-	400kV Jigmeling - Alipurduar Line - I	271.27		
		-	-	400kV Jigmeling - Alipurduar Line - II	269.82		
		-	-	80MVA, 220/132kV ICT - I (HV)	-32.30		
		-	-	80MVA, 220/132kV ICT - II (HV)	-31.90		
		-	-	132kV MHP - Yurmo Line - II	68.71		
		-	-	132kV MHP - Tintibi Line	58.37		
		-	-	132kV Gelephu - Salakati Line	-21.08		
		Total	785.08	Auxiliary Consumption & Transformation Losses at Generator end	0.34%		
3	6 x 170MW PHP-II	Unit- I	130.00	400kV PHP II - Jigmeling -I	93.24	Unit-V taken shutdown for runner inspection. Unit-IV on Standby. 400kV PHP II - Alipurduar- I not in Service.	
		Unit- II	130.00	400kV PHP II - Jigmeling -II	94.50		
		Unit- III	125.00	400kV PHP II - Alipurduar -I	0.00		
		Unit- IV	0.00	400kV PHP II - Alipurduar -II	318.52		
		Unit- V	0.00	-	-		
		Unit- VI	125.00	-	-		
		Total	510.00	Auxiliary Consumption & Transformation Losses at Generator end	0.73%		
4	4 x 84MW CHP	Unit- I	91.44	220kV CHP - Birpara Line - I	1.50	All Units and Feeders in Service.	
		Unit- II	91.25	220kV CHP - Birpara Line - II	1.30		
		Unit- III	91.25	220kV CHP - Gedu	77.63		
		Unit- IV	91.46	220kV CHP - Jamjee - I	93.86		
		-	-	220kV CHP - Jamjee - II	93.22		
		-	-	220kV CHP - Jamjee - III	89.39		
		-	-	220kV Malbase - Birpara Line	-16.00		
		-	-	66kV CHP - Gedu Line	8.25		
		Total	365.40	Auxiliary Consumption & Transformation Losses at Generator end	0.07%		
5	2 x 12MW BHP (U/S)	Unit- I	12.10	220kV BHP - Sentsokha Line	71.10	All Units and Feeders in Service.	
		Unit- II	12.00	66kV BHP - Lobeyssa Line	28.99		
		Total	24.10	220kV BHP - Tsirang Line	-34.87		
6	2 x 20MW BHP (L/S)	Unit- I	20.90	5MVA, 66/11kV TFR	0.55		
		Unit- II	21.00	30MVA ICT, 220/66kV (HV)	5.98		
		Total	41.90	Auxiliary Consumption & Transformation Losses at Generator end	0.35%		
7	2 x 63MW DHP	Unit-I	0.00	220kV DHP - Tsirang Line	0.00	Total Plant Shutdown from 10:27 hrs (09.10.2025) due to seepage in HRC . 220kV DHP-TSI line on Standby due to unavailability of DHP Units. 220kV DHP-DAG line is feeding DHP auxiliary consumption.	
		Unit-II	0.00	220kV DHP - Dagapela Line	0.00		
		-	-	220kV BitDeer - Dagapela Line	0.00		
		-	-	5MVA, 220/33kV TFR	0.00		
		Total	0.00	Auxiliary Consumption & Transformation Losses at Generator end	0.00%		
8	4 x 15MW KHP	Unit- I	15.06	132kV KHP - Nangkhon Line	37.65	All Units and Feeders in Service.	
		Unit-II	15.06	132kV KHP - Kilikhar Line	21.76		
		Unit- III	15.14	5MVA, 132/11kV TFR	0.35		
		Unit- IV	15.07	132kV Motanga - Rangia Line	19.60		
		Total	60.33	Auxiliary Consumption & Transformation Losses at Generator end	0.94%		
9	2 x 59MW NHP	Unit-I	64.92	132kV NHP-MHP-I	64.48	All Units and Feeders in Service.	
		Unit-II	64.83	132kV NHP-MHP-II	64.39		
		Total	129.75	Auxiliary Consumption & Transformation Losses at Generator end	0.68%		
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 01-Nov-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)	3,050.33	1,393.21		1,657.12	Tt.Exp./Imp. 463.18 1,657.12	
Note: Generation-Load Summary (MW) for 01-Nov-2024, at 19:00 hrs							
Sl. No.	Region	Total Generation	Total Domestic Load (Total Generation - Total Export)		Total Export(+ve)/ Import(-ve)	Tt.Load 881.72 1,393.21	
1	Both Eastern & Western (Whole Bhutan)	1,344.90	881.72		463.18		
Note: Daily Energy (MUs) and Power(MW) Statistics for 01-Nov-2025							
Sl. No.	Total Energy Generation	Daily Energy Met	Net Energy Import (IEX and Solar)	Net Energy Export	Peak Cross-border (MW)	Tt. Gen. 1,344.90 3,050.33	
1	65.19	31.73	0.00	33.48	2,084.74	Y-2024 Y-2025	

- The Instantaneous load balance does 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. 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.