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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 16-Dec-2025(+ve:import, +ve:export)

Report Details	Date	Time	National Coincidental Peak Load (MW)		Date	Time	Load
	December 15, 2025	9:00 AM			08-Nov-25	19:03:00	1,477.00
Sl. No.	Hydropower Plant	Unit	MW	Transmission Lines and Elements	Load (MW)	Remarks	
1	6 x 170MW THP	Unit-I	130.59	400kV THP - Siliguri Line - I	235.47	Unit-II & VI under Shutdown (Annual Maintenance). 400kV THP-Siliguri -IV on Standby. 400kV THP-Malbase Line under shutdown. Not able to Generate at full load due to less Inflow.	
		Unit-II	0.00	400kV THP - Siliguri Line - II	235.78		
		Unit-III	109.97	400kV THP - Siliguri Line - IV	0.00		
		Unit-IV	100.43	400kV THP - Malbase Line - III	0.00		
		Unit-V	133.31	400kV Malbase - Siliguri Line	-262.00		
		Unit-VI	0.00	-	-		
		Total	474.30	Auxiliary Consumption & Transformation Losses at Generator end	0.64%		
2	4 x 180MW MHP	Unit-I	150.17	400kV MHP - Jigmeling Line - I	104.15	Unit-III under Shutdown (Annual Maintenance). Unit-IV on Standby. 400kV MHP-JIG Line - II and IV kept on Standby as other two lines can cater the load.	
		Unit-II	150.14	400kV MHP - Jigmeling Line - II	0.00		
		Unit-III	0.00	400kV MHP - Jigmeling Line - III	104.57		
		Unit-IV	0.00	400kV MHP - Jigmeling Line - IV	0.00		
		-	-	220kV Jigmeling - BitDeer Line - I	203.57		
		-	-	220kV Jigmeling - BitDeer Line - II	189.18		
		-	-	500MVA, 400/220kV ICT at Jigmeling (HV)	432.73		
		-	-	400kV Jigmeling - Alipurduar Line - I	16.73		
		-	-	400kV Jigmeling - Alipurduar Line - II	16.00		
		-	-	80MVA, 220/132kV ICT - I (HV)	-19.46		
		-	-	80MVA, 220/132kV ICT - II (HV)	-19.21		
		-	-	132kV MHP - Yurno Line - II	64.34		
		-	-	132kV MHP - Tintibi Line	66.29		
		-	-	132kV Gelephu - Salakati Line	-37.08		
Total	300.31	Auxiliary Consumption & Transformation Losses at Generator end	0.24%				
3	6 x 170MW PHP-II	Unit-I	0.00	400kV PHP II - Jigmeling -I	131.24	Unit-I,Unit-II & Unit-VI under Shutdown (Annual Maintenance). Unit-V on Standby. 400kV PHP II - Alipurduar - I under Shutdown. Not able to Generate at full load due to less Inflow.	
		Unit-II	0.00	400kV PHP II - Jigmeling -II	130.96		
		Unit-III	171.32	400kV PHP II - Alipurduar -I	0.00		
		Unit-IV	169.63	400kV PHP II - Alipurduar -II	81.50		
		Unit-V	0.00	-	-		
		Unit-VI	0.00	-	-		
		Total	340.95	Auxiliary Consumption & Transformation Losses at Generator end	-0.81%		
4	4 x 84MW CHP	Unit-I	0.00	220kV CHP - Birpara Line - I	-75.33	Unit-I under Shutdown (Upgradation works on common Emergency Cooling Water pipelines). Unit-II under Shutdown(Annual Maintenance). Not able to Generate at full load due to less Inflow.	
		Unit-II	0.00	220kV CHP - Birpara Line - II	-74.91		
		Unit-III	89.36	220kV CHP - Gedu	43.73		
		Unit-IV	89.95	220kV CHP - Jamjee - I	94.02		
		-	-	220kV CHP - Jamjee - II	93.00		
		-	-	220kV CHP - Jamjee - III	90.23		
		-	-	220kV Malbase - Birpara Line	-113.00		
-	-	66kV CHP - Gedu Line	7.52				
Total	179.31	Auxiliary Consumption & Transformation Losses at Generator end	0.59%				
5	2 x 12MW BHP (U/S)	Unit-I	0.00	220kV BHP - Semtokha Line	61.37	BHP U/S Unit-I under Shutdown (Annual Maintenance).	
		Unit-II	10.00	66kV BHP - Lobessa Line	18.90		
		Total	10.00	220kV BHP - Tsirang Line	-53.27		
6	2 x 20MW BHP (L/S)	Unit-I	8.87	5MVA, 66/11kV TFR	0.90		
		Unit-II	9.19	30MVA ICT, 220/66kV (HV)	10.26		
		Total	18.06	Auxiliary Consumption & Transformation Losses at Generator end	0.57%		
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 .	
		Unit-II	0.00	220kV DHP - Dagapela Line	0.00		
		-	-	220kV BitDeer - Dagapela Line	21.90		
		-	-	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	11.69	132kV KHP - Nangkor Line	8.39	Unit-III on Standby. Unit-IV under Shutdown (Annual Maintenance).	
		Unit-II	11.70	132kV KHP - Kilikhar Line	14.20		
		Unit-III	0.00	5MVA, 132/11kV TFR	0.82		
		Unit-IV	0.00	132kV Motanga - Rangia Line	-6.69		
		Total	23.39	Auxiliary Consumption & Transformation Losses at Generator end	-0.09%		
9	2 x 59MW NHP	Unit-I	0.00	132kV NHP-MHP-I	0.00	Unit-I under Shutdown (Annual Maintenance) 132kV NHP-MHP line I under ideal charge at NHP end.	
		Unit-II	39.94	132kV NHP-MHP-II	39.75		
		Total	39.94	Auxiliary Consumption & Transformation Losses at Generator end	0.48%		
10	2 x 9MW SHP	Unit-I	7.00	66kV SHP-Damdhum (Samtse)	0.00	Unit-II on standby Interim measure: Evacuation is through 33kV System.	
		Unit-II	0.00	-	-		
		Total	7.00	Auxiliary Consumption & Transformation Losses at Generator end	100.00%		
11	17.38 MWp Sephu (Solar)	Inverter-1	1.54	33kV SSP-Wangdue	7.02	All Inverters and Feeders in Service.	
		Inverter-2	2.75	33kV SSP-Trongsa	6.43		
		Inverter-3	2.66	-	-		
		Inverter-4	3.49	-	-		
		Inverter-5	2.90	-	-		
		Total	13.33	Auxiliary Consumption & Transformation Losses at Generator end	-0.88%		

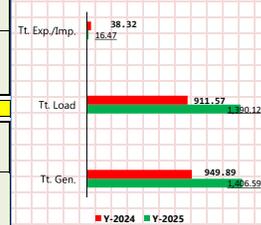
Note: Generation-Load Summary (MW) for 15-Dec-25 at 09:00 hrs

Sl. No.	Region	Total Generation	Total Domestic Load (Total Generation - Total Export)	Total Export(+ve)/ Import(-ve)
1	Both Eastern & Western (Whole Bhutan)	1,406.59	1,390.12	16.47

Note: Generation-Load Summary (MW) for 15-Dec-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)	949.89	911.57	38.32

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

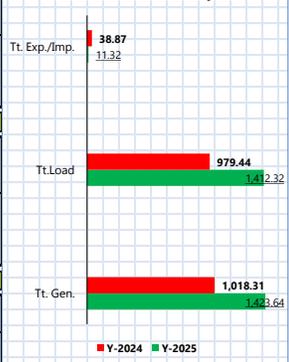


THE DAILY BHUTAN POWER SYSTEM OPERATOR LOAD-GENERATION BALANCE REPORT & ENERGY FIGURES ISSUED ON 16-Dec-2025(-ve:import, +ve:export)							
Report	Date	Time	National Coincidental Peak Load (MW)		Date	Time	Load
Details	December 15, 2025	19:00:00			08-Nov-25	19:03:00	1,477.00
Sl. No.	Hydropower Plant	Unit	MW	Transmission Lines and Elements	Load (MW)	Remarks	
1	6 x 170MW THP	Unit-I	160.58	400kV THP - Siliguri Line - I	287.47	Unit-II & VI under Shutdown (Annual Maintenance). 400kV THP-Siliguri -IV on Standby. 400kV THP-Malbase Line under Shutdown. Not able to Generate at full Load due to less Inflow.	
		Unit-II	0.00	400kV THP - Siliguri Line - II	287.67		
		Unit-III	164.90	400kV THP - Siliguri Line - IV	0.00		
		Unit-IV	90.45	400kV THP - Malbase Line - III	0.00		
		Unit-V	162.93	400kV Malbase - Siliguri Line	-259.00		
		Unit-VI	0.00	-	-		
		Total	578.86	Auxiliary Consumption & Transformation Losses at Generator end	0.64%		
2	4 x 180MW MHP	Unit-I	145.04	400kV MHP - Jigmeling Line - I	91.74	Unit-III under Shutdown (Annual Maintenance). Unit-IV on Standby. 400kV MHP-JIG Line - II and IV kept on Standby as other two Lines can cater the load.	
		Unit-II	146.07	400kV MHP - Jigmeling Line - II	0.00		
		Unit-III	0.00	400kV MHP - Jigmeling Line - III	92.19		
		Unit-IV	0.00	400kV MHP - Jigmeling Line - IV	0.00		
		-	-	220kV Jigmeling - BitDeer Line - I	204.00		
		-	-	220kV Jigmeling - BitDeer Line - II	199.56		
		-	-	500MVA, 400/220kV ICT at Jigmeling (HV)	435.27		
		-	-	400kV Jigmeling - Alipurduar Line - I	-7.27		
		-	-	400kV Jigmeling - Alipurduar Line - II	-8.00		
		-	-	80MVA, 220/132kV ICT - I (HV)	-16.54		
		-	-	80MVA, 220/132kV ICT - II (HV)	-16.26		
		-	-	132kV MHP - Yurmo Line - II	66.12		
		-	-	132kV MHP - Tintibi Line	68.17		
		-	-	132kV Gelephu - Salakati Line	-52.79		
		Total	291.11	Auxiliary Consumption & Transformation Losses at Generator end	0.23%		
3	6 x 170MW PHP-II	Unit-I	0.00	400kV PHP II - Jigmeling -I	120.60	Unit-I, Unit-II & Unit-VI under Shutdown (Annual Maintenance). Unit-V on Standby. 400kV PHP II - Alipurduar - I under Shutdown.	
		Unit-II	0.00	400kV PHP II - Jigmeling -II	119.23		
		Unit-III	145.78	400kV PHP II - Alipurduar - I	0.00		
		Unit-IV	143.28	400kV PHP II - Alipurduar - II	51.68		
		Unit-V	0.00	-	-		
		Unit-VI	0.00	-	-		
		Total	289.06	Auxiliary Consumption & Transformation Losses at Generator end	-0.85%		
4	4 x 84MW CHP	Unit-I	0.00	220kV CHP - Birpara Line - I	-79.61	Unit-I under Shutdown & II under Annual Maintenance. Not able to Generate at full Load due to less Inflow.	
		Unit-II	0.00	220kV CHP - Birpara Line - II	-79.39		
		Unit-III	90.15	220kV CHP - Gedu	35.25		
		Unit-IV	89.27	220kV CHP - Jamjee - I	100.50		
		-	-	220kV CHP - Jamjee - II	99.77		
		-	-	220kV CHP - Jamjee - III	96.26		
		-	-	220kV Malbase - Birpara Line	-113.00		
-	-	66kV CHP - Gedu Line	6.26				
Total	179.42	Auxiliary Consumption & Transformation Losses at Generator end	0.21%				
5	2 x 12MW BHP (U/S)	Unit-I	4.22	220kV BHP - Sertokha Line	72.80	BHP L/S Unit-I under Shutdown. Not able to Generate at full Load due to less Inflow.	
		Unit-II	4.60	66kV BHP - Lobeysa Line	24.16		
		Total	8.82	220kV BHP - Tsirang Line	-70.51		
6	2 x 20MW BHP (L/S)	Unit-I	0.00	5MVA, 66/11kV TFR	0.85		
		Unit-II	18.10	30MVA ICT, 220/66kV (HV)	16.20		
		Total	18.10	Auxiliary Consumption & Transformation Losses at Generator end	-1.41%		
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 .	
		Unit-II	0.00	220kV DHP - Dagapela Line	0.00		
		-	-	220kV BitDeer - Dagapela Line	22.68		
		-	-	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	11.68	132kV KHP - Nangkor Line	6.65	Unit-III on Standby. Unit-IV under Shutdown (Annual Maintenance).	
		Unit-II	11.69	132kV KHP - Kilikhar Line	15.97		
		Unit-III	0.00	5MVA, 132/11kV TFR	0.83		
		Unit-IV	0.00	132kV Motanga - Rangia Line	-16.44		
		Total	23.37	Auxiliary Consumption & Transformation Losses at Generator end	-0.34%		
9	2 x 59MW NHP	Unit-I	0.00	132kV NHP-MHP-I	0.00	Unit-I under Shutdown. 132kV NHP-MHP line I under ideal charge at NHP end.	
		Unit-II	27.99	132kV NHP-MHP-II	27.77		
		Total	27.99	Auxiliary Consumption & Transformation Losses at Generator end	0.79%		
10	2 x 9MW SHP	Unit-I	6.91	66kV SHP-Damdhum (Samtse)	0.00	Unit-II on Standby Interim measure: Evacuation is through 33kV System.	
		Unit-II	0.00	-	-		
		Total	6.91	Auxiliary Consumption & Transformation Losses at Generator end	100.00%		

Note: Generation-Load Summary (MW) for 15-Dec-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)	1,423.64	1,412.32	11.32

19:00 hrs Statistical Comparison (MW) for this and last year



Note: Generation-Load Summary (MW) for 15-Dec-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)	1,018.31	979.44	38.87

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

Sl. No.	Total Energy Generation	Daily Energy Met	Net Energy Import (IEX and Solar)	Net Energy Export	Peak Cross-border (MW)
1	22.63	32.43	9.79	0.00	-788.83

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.