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

Report Details	Date	Time	National Coincidental Peak Load (MW)		Date	Time	Load
	December 6, 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	142.00	400kV THP - Siliguri Line - I	249.78	Unit-II & VI under Shutdown (Annual Maintenance). 400kV THP-Siliguri -IV under Shutdown. 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	249.84		
		Unit-III	130.00	400kV THP - Siliguri Line - IV	0.00		
		Unit-IV	100.00	400kV THP - Malbase Line - III	0.00		
		Unit-V	130.00	400kV Malbase - Siliguri Line	-242.00		
		Unit-VI	0.00	-	-		
		Total	502.00	Auxiliary Consumption & Transformation Losses at Generator end	0.47%		
2	4 x 180MW MHP	Unit-I	170.26	400kV MHP - Jigmeling Line - I	130.35	Unit-III under Shutdown (Annual Maintenance). Unit-I on Standby. 400kV MHP-JIG Line - II and IV kept on Standby as other two lines can cater the load.	
		Unit-II	0.00	400kV MHP - Jigmeling Line - II	0.00		
		Unit-III	0.00	400kV MHP - Jigmeling Line - III	131.21		
		Unit-IV	180.37	400kV MHP - Jigmeling Line - IV	0.00		
		-	-	220kV Jigmeling - BitDeer Line - I	206.72		
		-	-	220kV Jigmeling - BitDeer Line - II	187.64		
		-	-	500MVA, 400/220kV ICT at Jigmeling (HV)	423.27		
		-	-	400kV Jigmeling - Alipurduar Line - I	8.00		
		-	-	400kV Jigmeling - Alipurduar Line - II	6.55		
		-	-	80MVA, 220/132kV ICT - I (HV)	13.56		
		-	-	80MVA, 220/132kV ICT - II (HV)	13.35		
		-	-	132kV MHP - Yurmo Line - II	62.38		
		-	-	132kV MHP - Tintibi Line	64.79		
		-	-	132kV Gelephu - Salakati Line	-47.19		
Total	350.63	Auxiliary Consumption & Transformation Losses at Generator end	0.38%				
3	6 x 170MW PHP-II	Unit-I	0.00	400kV PHP II - Jigmeling -I	91.00	Unit-I & Unit-VI under Shutdown (Annual Maintenance). Unit-III & V on Standby. 400kV PHP II - Alipurduar- I under Shutdown.	
		Unit-II	115.00	400kV PHP II - Jigmeling -II	92.00		
		Unit-III	0.00	400kV PHP II - Alipurduar -I	0.00		
		Unit-IV	116.00	400kV PHP II - Alipurduar -II	47.23		
		Unit-V	0.00	-	-		
		Unit-VI	0.00	-	-		
		Total	231.00	Auxiliary Consumption & Transformation Losses at Generator end	0.33%		
4	4 x 84MW CHP	Unit-I	0.00	220kV CHP - Birpara Line - I	-71.50	Unit-I under Shutdown (Upgradation works on common Emergency Cooling Water pipelines). Unit-II under Shutdown(Annual Maintenance).	
		Unit-II	0.00	220kV CHP - Birpara Line - II	-71.00		
		Unit-III	90.45	220kV CHP - Gedu	48.41		
		Unit-IV	91.50	220kV CHP - Jamjee - I	90.28		
		-	-	220kV CHP - Jamjee - II	89.43		
		-	-	220kV CHP - Jamjee - III	86.25		
		-	-	220kV Malbase - Birpara Line	-112.00		
		-	-	66kV CHP - Gedu Line	7.80		
		Total	181.95	Auxiliary Consumption & Transformation Losses at Generator end	1.25%		
5	2 x 12MW BHP (U/S)	Unit-I	0.00	220kV BHP - Semtokha Line	65.90	BHP U/S Unit-I under Shutdown (Annual Maintenance).	
		Unit-II	10.20	66kV BHP - Lobessa Line	20.13		
		Total	10.20	220kV BHP - Tsirang Line	-56.19		
6	2 x 20MW BHP (L/S)	Unit-I	10.09	5MVA, 66/11kV TFR	0.45		
		Unit-II	10.08	30MVA ICT, 220/66kV (HV)	10.38		
		Total	20.17	Auxiliary Consumption & Transformation Losses at Generator end	0.26%		
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	21.52		
		-	-	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	15.20	132kV KHP - Nangkor Line	14.86	Unit-III on Standby. Unit-IV under Shutdown (Annual Maintenance).	
		Unit-II	15.16	132kV KHP - Kilikhar Line	14.81		
		Unit-III	0.00	5MVA, 132/11kV TFR	0.51		
		Unit-IV	0.00	132kV Motanga - Rangia Line	-6.20		
		Total	30.36	Auxiliary Consumption & Transformation Losses at Generator end	0.59%		
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	40.10	132kV NHP-MHP-II	39.42		
		Total	40.10	Auxiliary Consumption & Transformation Losses at Generator end	1.70%		
10	2 x 9MW SHP	Unit-I	8.09	66kV SHP-Damdhum (Samtse)	0.00	Unit-II on standby Interim measure: Evacuation is through 33kV System.	
		Unit-II	0.00	-	-		
		Total	8.09	Auxiliary Consumption & Transformation Losses at Generator end	100.00%		
11	17.38 MWp Sephu (Solar)	Inverter-1	1.55	33kV SSP-Wangdue	6.85	All Inverters and Feeders in Service.	
		Inverter-2	2.74	33kV SSP-Trongsa	6.41		
		Inverter-3	2.66	-	-		
		Inverter-4	3.51	-	-		
		Inverter-5	2.90	-	-		
		Total	13.36	Auxiliary Consumption & Transformation Losses at Generator end	0.75%		

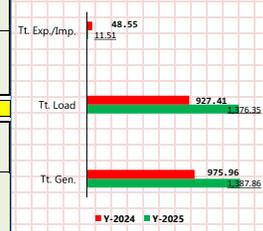
Note: Generation-Load Summary (MW) for 06-Dec-25 at 09:00 hrs

Sl. No.	Region	Total Generation	Total Domestic Load (Total Generation - Total Export)	Total Export(+ve)/Import(-ve)
1	Both Eastern & Western (Whole Bhutan)	1,387.86	1,376.35	11.51

Note: Generation-Load Summary (MW) for 06-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)	975.96	927.41	48.55

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

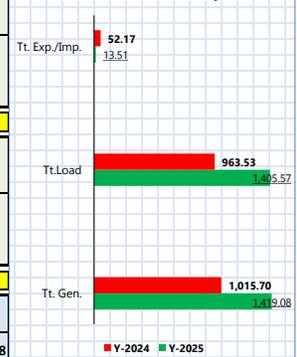


THE DAILY BHUTAN POWER SYSTEM OPERATOR LOAD-GENERATION BALANCE REPORT & ENERGY FIGURES ISSUED ON 07-Dec-2025(-ve:import, +ve:export)							
Report Details	Date	Time	National Coincidental Peak Load (MW)		Date	Time	Load
	December 6, 2025	19:00:00			08-Nov-25	19:03:00	1,477.98
Sl. No.	Hydropower Plant	Unit	MW	Transmission Lines and Elements	Load (MW)	Remarks	
1	6 x 170MW THP	Unit-I	143.68	400kV THP - Siliguri Line - I	270.13	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	270.32		
		Unit-III	134.90	400kV THP - Siliguri Line - IV	0.00		
		Unit-IV	130.47	400kV THP - Malbase Line - III	0.00		
		Unit-V	135.10	400kV Malbase - Siliguri Line	-259.00		
		Unit-VI	0.00	-	-		
		Total	544.15	Auxiliary Consumption & Transformation Losses at Generator end	0.68%		
2	4 x 180MW MHP	Unit-I	165.85	400kV MHP - Jigmeling Line - I	103.48	Unit-III under Shutdown (Annual Maintenance). Unit-II on Standby. 400kV MHP-JIG Line - II and IV kept on Standby as other two lines can cater the load.	
		Unit-II	0.00	400kV MHP - Jigmeling Line - II	0.00		
		Unit-III	0.00	400kV MHP - Jigmeling Line - III	103.61		
		Unit-IV	145.22	400kV MHP - Jigmeling Line - IV	0.00		
		-	-	220kV Jigmeling - BitDeer Line - I	204.00		
		-	-	220kV Jigmeling - BitDeer Line - II	200.00		
		-	-	500MVA, 400/220kV ICT at Jigmeling (HV)	433.00		
		-	-	400kV Jigmeling - Alipurduar Line - I	3.64		
		-	-	400kV Jigmeling - Alipurduar Line - II	2.91		
		-	-	80MVA, 220/132kV ICT - I (HV)	15.00		
		-	-	80MVA, 220/132kV ICT - II (HV)	15.00		
		-	-	132kV MHP - Yurmo Line - II	66.26		
		-	-	132kV MHP - Tintibi Line	62.00		
		-	-	132kV Gelephu - Salakati Line	-54.50		
Total	311.07	Auxiliary Consumption & Transformation Losses at Generator end	1.21%				
3	6 x 170MW PHP-II	Unit-I	0.00	400kV PHP II - Jigmeling -I	115.20	Unit-I & Unit-VI under Shutdown (Annual Maintenance). Unit-III & V on Standby. 400kV PHP II - Alipurduar - I under Shutdown. Not able to Generate at full load due to less Inflow.	
		Unit-II	144.50	400kV PHP II - Jigmeling -II	116.10		
		Unit-III	0.00	400kV PHP II - Alipurduar - I	0.00		
		Unit-IV	144.90	400kV PHP II - Alipurduar - II	58.15		
		Unit-V	0.00	-	-		
		Unit-VI	0.00	-	-		
		Total	289.40	Auxiliary Consumption & Transformation Losses at Generator end	-0.02%		
4	4 x 84MW CHP	Unit-I	0.00	220kV CHP - Birpara Line - I	-78.20	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	-77.60		
		Unit-III	89.50	220kV CHP - Gedu	40.32		
		Unit-IV	90.00	220kV CHP - Jamjee - I	97.00		
		-	-	220kV CHP - Jamjee - II	96.00		
		-	-	220kV CHP - Jamjee - III	92.00		
		-	-	220kV Malbase - Birpara Line	-117.20		
Total	179.50	Auxiliary Consumption & Transformation Losses at Generator end	1.31%				
5	2 x 12MW BHP (U/S)	Unit-I	0.00	220kV BHP - Sertokha Line	75.89	BHP U/S Unit-I under Shutdown (AMP).	
		Unit-II	10.00	66kV BHP - Lobeyssa Line	23.67		
		Total	10.00	220kV BHP - Tsirang Line	-68.95		
6	2 x 20MW BHP (L/S)	Unit-I	10.20	5MVA, 66/11kV TFR	0.57		
		Unit-II	10.19	30MVA ICT, 220/66kV (HV)	14.03		
		Total	20.39	Auxiliary Consumption & Transformation Losses at Generator end	-2.60%		
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	20.00		
		Total	0.00	Auxiliary Consumption & Transformation Losses at Generator end	0.00%		
8	4 x 15MW KHP	Unit-I	14.20	132kV KHP - Nangkhor Line	12.28	Unit-III on Standby. Unit- IV under Shutdown(Annual Maintenance). Not able to Generate at full load due to less Inflow.	
		Unit-II	14.18	132kV KHP - Kilikhar Line	15.37		
		Unit-III	0.00	5MVA, 132/11kV TFR	0.71		
		Unit-IV	0.00	132kV Motanga - Rangia Line	-5.14		
		Total	28.38	Auxiliary Consumption & Transformation Losses at Generator end	0.07%		
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	28.09	132kV NHP-MHP-II	28.05		
		Total	28.09	Auxiliary Consumption & Transformation Losses at Generator end	0.14%		
10	2 x 9MW SHP	Unit-I	8.10	66kV SHP-Damdhum (Samtse)	0.00	Unit-II on Standby Interim measure: Evacuation is through 33kV System.	
		Unit-II	0.00	-	-		
		Total	8.10	Auxiliary Consumption & Transformation Losses at Generator end	100.00%		

Note: Generation-Load Summary (MW) for 06-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)	1,419.08	1,405.57	13.51

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



Note: Generation-Load Summary (MW) for 06-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)	1,015.70	963.53	52.17

Note: Daily Energy (MUs) and Power(MW) Statistics for 06-Dec-2025

Sl. No.	Total Energy Generation	Daily Energy Met	Net Energy Import (IEX and Solar)	Net Energy Export	Peak Cross-border (MW)
1	25.59	32.18	6.61	0.00	-657.98

- 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.