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

Report Details	Date	Time	National Coincidental Peak Load (MW)		Date	Time	Load
	December 9, 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	115.68	400kV THP - Siliguri Line - I	242.49	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	242.69		
		Unit-III	140.34	400kV THP - Siliguri Line - IV	0.00		
		Unit-IV	122.38	400kV THP - Malbase Line - III	0.00		
		Unit-V	110.17	400kV Malbase - Siliguri Line	-253.00		
		Unit-VI	0.00	-	-		
		Total	488.57	Auxiliary Consumption & Transformation Losses at Generator end	0.69%		
2	4 x 180MW MHP	Unit-I	151.21	400kV MHP - Jigmeling Line - I	112.61	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	113.42		
		Unit-IV	165.35	400kV MHP - Jigmeling Line - IV	0.00		
		-	-	220kV Jigmeling - BitDeer Line - I	204.00		
		-	-	220kV Jigmeling - BitDeer Line - II	188.00		
		-	-	500MVA, 400/220kV ICT at Jigmeling (HV)	434.91		
		-	-	400kV Jigmeling - Alipurduar Line - I	15.27		
		-	-	400kV Jigmeling - Alipurduar Line - II	13.09		
		-	-	80MVA, 220/132kV ICT - I (HV)	-15.00		
		-	-	80MVA, 220/132kV ICT - II (HV)	-14.77		
		-	-	132kV MHP - Yurno Line - II	62.30		
		-	-	132kV MHP - Tintibi Line	65.10		
		-	-	132kV Gelephu - Salakati Line	-48.00		
Total	316.56	Auxiliary Consumption & Transformation Losses at Generator end	0.89%				
3	6 x 170MW PHP-II	Unit-I	0.00	400kV PHP II - Jigmeling -I	118.20	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	155.45	400kV PHP II - Jigmeling -II	117.90		
		Unit-III	0.00	400kV PHP II - Alipurduar -I	0.00		
		Unit-IV	155.23	400kV PHP II - Alipurduar -II	74.00		
		Unit-V	0.00	-	-		
		Unit-VI	0.00	-	-		
		Total	310.68	Auxiliary Consumption & Transformation Losses at Generator end	0.19%		
4	4 x 84MW CHP	Unit-I	0.00	220kV CHP - Birpara Line - I	-78.19	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	-77.69		
		Unit-III	85.40	220kV CHP - Gedu	49.71		
		Unit-IV	84.39	220kV CHP - Jamjee - I	90.09		
		-	-	220kV CHP - Jamjee - II	89.60		
		-	-	220kV CHP - Jamjee - III	87.22		
		-	-	220kV Malbase - Birpara Line	-123.00		
		-	-	66kV CHP - Gedu Line	8.24		
Total	169.79	Auxiliary Consumption & Transformation Losses at Generator end	0.48%				
5	2 x 12MW BHP (U/S)	Unit-I	0.00	220kV BHP - Semtokha Line	69.74	BHP U/S Unit-I under Shutdown (Annual Maintenance).	
		Unit-II	10.06	66kV BHP - Lobessa Line	19.24		
		Total	10.06	220kV BHP - Tsirang Line	-59.41		
6	2 x 20MW BHP (L/S)	Unit-I	9.43	5MVA, 66/11kV TFR	0.36		
		Unit-II	10.19	30MVA ICT, 220/66kV (HV)	9.78		
		Total	19.62	Auxiliary Consumption & Transformation Losses at Generator end	-0.84%		
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	20.97		
		-	-	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	12.18	132kV KHP - Nangkor Line	10.49	Unit-III on Standby. Unit-IV under Shutdown (Annual Maintenance).	
		Unit-II	12.17	132kV KHP - Kilikhar Line	13.28		
		Unit-III	0.00	5MVA, 132/11kV TFR	0.54		
		Unit-IV	0.00	132kV Motanga - Rangia Line	-8.58		
		Total	24.35	Auxiliary Consumption & Transformation Losses at Generator end	0.16%		
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	40.01	132kV NHP-MHP-II	39.70		
		Total	40.01	Auxiliary Consumption & Transformation Losses at Generator end	0.77%		
10	2 x 9MW SHP	Unit-I	7.80	66kV SHP-Damdhum (Samtse)	0.00	Unit-II on standby Interim measure: Evacuation is through 33kV System.	
		Unit-II	0.00	-	-		
		Total	7.80	Auxiliary Consumption & Transformation Losses at Generator end	100.00%		
11	17.38 MWp Sephu (Solar)	Inverter-1	1.54	33kV SSP-Wangdue	6.94	All Inverters and Feeders in Service.	
		Inverter-2	2.70	33kV SSP-Trongsa	6.30		
		Inverter-3	2.65	-	-		
		Inverter-4	3.50	-	-		
		Inverter-5	2.88	-	-		
		Total	13.27	Auxiliary Consumption & Transformation Losses at Generator end	0.20%		

Note: Generation-Load Summary (MW) for 09-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)	1,400.71	1,401.63	-0.92

Note: Generation-Load Summary (MW) for 09-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)	958.77	914.80	43.97

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

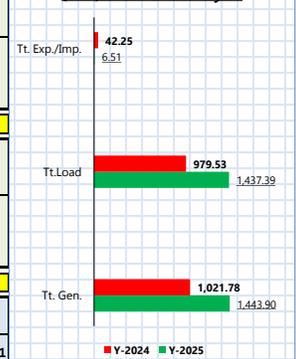


THE DAILY BHUTAN POWER SYSTEM OPERATOR LOAD-GENERATION BALANCE REPORT & ENERGY FIGURES ISSUED ON 10-Dec-2025(+ve:import, +ve:export)							
Report	Date	Time	National Coincidental Peak Load (MW)		Date	Time	Load
Details	December 9, 2025	19:00:00			08-Nov-25	19:03:00	1,477.90
Sl. No.	Hydropower Plant	Unit	MW	Transmission Lines and Elements	Load (MW)	Remarks	
1	6 x 170MW THP	Unit-I	170.54	400kV THP - Siliguri Line - I	289.90	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	290.47		
		Unit-III	160.08	400kV THP - Siliguri Line - IV	0.00		
		Unit-IV	83.47	400kV THP - Malbase Line - III	0.00		
		Unit-V	170.09	400kV Malbase - Siliguri Line	-267.00		
		Unit-VI	0.00	-	-		
		Total	584.18	Auxiliary Consumption & Transformation Losses at Generator end	0.65%		
2	4 x 180MW MHP	Unit-I	150.15	400kV MHP - Jigmeling Line - I	102.27	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	102.87		
		Unit-IV	150.14	400kV MHP - Jigmeling Line - IV	0.00		
		-	-	220kV Jigmeling - BitDeer Line - I	205.00		
		-	-	220kV Jigmeling - BitDeer Line - II	200.00		
		-	-	500MVA, 400/220kV ICT at Jigmeling (HV)	435.27		
		-	-	400kV Jigmeling - Alipurduar Line - I	-1.46		
		-	-	400kV Jigmeling - Alipurduar Line - II	-4.36		
		-	-	80MVA, 220/132kV ICT - I (HV)	-13.48		
		-	-	80MVA, 220/132kV ICT - II (HV)	-13.31		
		-	-	132kV MHP - Yurmo Line - II	70.11		
		-	-	132kV MHP - Tintibi Line	63.00		
		-	-	132kV Gelephu - Salakati Line	-55.29		
		Total	300.29	Auxiliary Consumption & Transformation Losses at Generator end	0.59%		
3	6 x 170MW PHP-II	Unit-I	0.00	400kV PHP II - Jigmeling -I	114.50	Unit-I & Unit-VI under Shutdown (Annual Maintenance). Unit-II & 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	114.30		
		Unit-III	141.90	400kV PHP II - Alipurduar - I	0.00		
		Unit-IV	139.70	400kV PHP II - Alipurduar - II	54.31		
		Unit-V	0.00	-	-		
		Unit-VI	0.00	-	-		
		Total	281.60	Auxiliary Consumption & Transformation Losses at Generator end	-0.54%		
4	4 x 84MW CHP	Unit-I	0.00	220kV CHP - Birpara Line - I	-83.00	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	-82.40		
		Unit-III	84.61	220kV CHP - Gedu	39.38		
		Unit-IV	85.36	220kV CHP - Jamjee - I	97.19		
		-	-	220kV CHP - Jamjee - II	96.39		
		-	-	220kV CHP - Jamjee - III	92.86		
		-	-	220kV Malbase - Birpara Line	-123.00		
Total	169.97	Auxiliary Consumption & Transformation Losses at Generator end	1.05%				
5	2 x 12MW BHP (U/S)	Unit-I	9.67	220kV BHP - Sertokha Line	83.26	BHP U/S Unit-I under Shutdown (AMP). Not able to Generate at full Load due to less Inflow.	
		Unit-II	10.18	66kV BHP - Lobeysa Line	25.39		
		Total	19.85	220kV BHP - Tsirang Line	-79.45		
6	2 x 20MW BHP (L/S)	Unit-I	0.00	5MVA, 66/11kV TFR	0.68		
		Unit-II	10.06	30MVA ICT, 220/66kV (HV)	16.28		
		Total	10.06	Auxiliary Consumption & Transformation Losses at Generator end	0.10%		
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	22.51		
		-	-	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	15.23	132kV KHP - Nangkor Line	11.74	Unit-III on Standby. Unit-IV under Shutdown (Annual Maintenance).	
		Unit-II	15.13	132kV KHP - Kilikhar Line	17.72		
		Unit-III	0.00	5MVA, 132/11kV TFR	0.51		
		Unit-IV	0.00	132kV Motanga - Rangia Line	-11.66		
		Total	30.36	Auxiliary Consumption & Transformation Losses at Generator end	1.28%		
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	39.97	132kV NHP-MHP-II	39.74		
		Total	39.97	Auxiliary Consumption & Transformation Losses at Generator end	0.58%		
10	2 x 9MW SHP	Unit-I	7.62	66kV SHP-Damdhum (Samtse)	0.00	Unit-II on Standby Interim measure: Evacuation is through 33kV System.	
		Unit-II	0.00	-	-		
		Total	7.62	Auxiliary Consumption & Transformation Losses at Generator end	100.00%		

Note: Generation-Load Summary (MW) for 09-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)	1,443.90	1,437.39	6.51

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



Note: Generation-Load Summary (MW) for 09-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)	1,021.78	979.53	42.25

Note: Daily Energy (MUs) and Power(MW) Statistics for 09-Dec-2025

Sl. No.	Total Energy Generation	Daily Energy Met	Net Energy Import (IEX and Solar)	Net Energy Export	Peak Cross-border (MW)
1	25.75	32.43	6.68	1.29	-666.31

- 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.