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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-Feb-2026(+ve:import, +ve:export)

Report Details	Date	Time	National Coincidental Peak Load (MW)		Date	Time	Load
	February 1, 2026	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	184.00	400kV THP - Siliguri Line - I	0.00	Unit-IV, V & VI under Shutdown (Annual Maintenance). 400kV THP-NOR Line charged at 18:28hrs (29.01.26.) 400kV NOR_SIL line kept in idle charge at NOR end at 18:59hrs (29.01.2026). 400kV THP_SIL line I on Standby.	
		Unit-II	180.00	400kV THP - Siliguri Line - II	119.25		
		Unit-III	180.00	400kV THP - Norbugang - IV	-0.23		
		Unit-IV	0.00	400kV THP - Malbase Line - III	421.67		
		Unit-V	0.00	400kV Malbase - Siliguri Line	45.00		
		Unit-VI	0.00	400kV Norbugang-Siliguri Line	0.00		
		Total	544.00	Auxiliary Consumption & Transformation Losses at Generator end	0.61%		
2	4 x 180MW MHP	Unit-I	159.71	400kV MHP - Jigmeling Line - I	0.00	Unit-IV under Shutdown (Annual Maintenance). Unit-III under shutdown. 400kV MHP-JIG Line - I under Shutdown & line III on Standby as other two lines can cater the load.	
		Unit-II	160.70	400kV MHP - Jigmeling Line - II	100.01		
		Unit-III	0.00	400kV MHP - Jigmeling Line - III	0.00		
		Unit-IV	0.00	400kV MHP - Jigmeling Line - IV	100.19		
		-	-	220kV Jigmeling - BitDeer Line - I	168.97		
		-	-	220kV Jigmeling - BitDeer Line - II	203.70		
		-	-	500MVA, 400/220kV ICT at Jigmeling (HV)	426.55		
		-	-	400kV Jigmeling - Alipurduar Line - I	-6.55		
		-	-	400kV Jigmeling - Alipurduar Line - II	-8.00		
		-	-	80MVA, 220/132kV ICT - I (HV)	28.00		
		-	-	80MVA, 220/132kV ICT - II (HV)	27.78		
		-	-	132kV MHP - Yurno Line - II	66.10		
		-	-	132kV MHP - Tintibi Line	68.10		
		-	-	132kV Gelephu - Salakati Line	-47.95		
		Total	320.41	Auxiliary Consumption & Transformation Losses at Generator end	2.43%		
3	6 x 170MW PHP-II	Unit-I	0.00	400kV PHP II - Jigmeling - I	204.19	Unit-I, II & IV under Shutdown (Annual Maintenance). Unit-III on Standby. 400kV PHP II-Jigmeling-II & 400kV PHP II-Alipurduar line-I on standby.	
		Unit-II	0.00	400kV PHP II - Jigmeling - II	0.00		
		Unit-III	0.00	400kV PHP II - Alipurduar - I	0.00		
		Unit-IV	0.00	400kV PHP II - Alipurduar - II	96.74		
		Unit-V	150.39	-	-		
		Unit-VI	151.00	-	-		
		Total	301.39	Auxiliary Consumption & Transformation Losses at Generator end	0.15%		
4	4 x 84MW CHP	Unit-I	0.00	220kV CHP - Birpara Line - I	-62.50	Unit-I & II under Shutdown (Annual Maintenance).	
		Unit-II	0.00	220kV CHP - Birpara Line - II	-61.90		
		Unit-III	60.58	220kV CHP - Gedu	-62.35		
		Unit-IV	59.60	220kV CHP - Jamjee - I	101.70		
		-	-	220kV CHP - Jamjee - II	100.01		
		-	-	220kV CHP - Jamjee - III	98.78		
		-	-	220kV Malbase - Birpara Line	-39.70		
		-	-	66kV CHP - Gedu Line	5.10		
		Total	120.18	Auxiliary Consumption & Transformation Losses at Generator end	1.11%		
5	2 x 12MW BHP (U/S)	Unit-I	0.00	220kV BHP - Semtokha Line	40.70	L/S Unit-II under AMP. U/S Unit-I under Shutdown.	
		Unit-II	6.10	66kV BHP - Lobeysa Line	19.10		
		Total	6.10	220kV BHP - Tsirang Line	-41.76		
6	2 x 20MW BHP (L/S)	Unit-I	12.30	5MVA, 66/11kV TFR	0.63	Total Plant Shutdown from 10:27 hrs (09.10.2025) due to Seepage in HRC.	
		Unit-II	0.00	30MVA ICT, 220/66kV (HV)	13.67		
		Total	12.30	Auxiliary Consumption & Transformation Losses at Generator end	-1.47%		
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	58.18		
		-	-	5MVA, 220/33kV TFR	0.20		
		Total	0.00	Auxiliary Consumption & Transformation Losses at Generator end	0.00%		
8	4 x 15MW KHP	Unit-I	0.00	132kV KHP - Nangkor Line	3.70	Unit-I on Standby. Unit-II under AMP. Unit-IV under Shutdown.	
		Unit-II	0.00	132kV KHP - Kilikhar Line	11.13		
		Unit-III	15.45	5MVA, 132/11kV TFR	0.56		
		Unit-IV	0.00	132kV Motanga - Rangia Line	-12.30		
		Total	15.45	Auxiliary Consumption & Transformation Losses at Generator end	0.39%		
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	22.00	132kV NHP-MHP-II	21.79		
		Total	22.00	Auxiliary Consumption & Transformation Losses at Generator end	0.95%		
10	2 x 9MW SHP	Unit-I	4.20	66kV SHP-Damdhum (Samtse)	0.00	Unit-II on Standby. Interim measure: Evacuation is through 33kV System.	
		Unit-II	0.00	-	-		
		Total	4.20	Auxiliary Consumption & Transformation Losses at Generator end	100.00%		
11	17.38 MWp Sephu (Solar)	Inverter-1	1.46	33kV SSP-Wangdue	6.46	Inverter IV & V has to be kept on standby due to shutdown of Trongsa feeder.	
		Inverter-2	2.55	33kV SSP-Trongsa	0.00		
		Inverter-3	2.46	-	-		
		Inverter-4	0.00	-	-		
		Inverter-5	0.00	-	-		
		Total	6.46	Auxiliary Consumption & Transformation Losses at Generator end	0.00%		

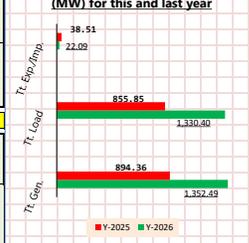
Note: Generation-Load Summary (MW) for 01-Feb-26 at 09:00 hrs

Sl. No.	Region	Total Generation	Total Domestic Load (Total Generation - Total Export)	Total Export(+ve)/Import(-ve)
1	Both Eastern & Western (Whole Bhutan)	1,352.49	1,330.40	22.09

Note: Generation-Load Summary (MW) for 01-Feb-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)	894.36	855.85	38.51

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-Feb-2026(-ve:import, +ve:export)							
Report Details	Date	Time	National Coincidental Peak Load (MW)		Date	Time	Load
	February 1, 2026	18:00:00			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	60.65	400kV THP - Siliguri Line - I	0.00	Unit- IV, V & VI under Shutdown (Annual Maintenance). 400kV THP-NOR Line charged at 18:28hrs (29.01.26). 400kV NOR_SIL line kept in idle charge at NOR end at 18:59hrs (29.01.2026) 400kV THP_SIL line I on Standby.	
		Unit-II	75.88	400kV THP - Siliguri Line - II	-56.25		
		Unit-III	71.38	400kV THP - Norbugang Line - IV	0.00		
		Unit-IV	0.00	400kV THP - Malbase Line - III	263.04		
		Unit-V	0.00	400kV Malbase - Siliguri Line	-118.65		
		Unit-VI	0.00	400kV Norbugang-Siliguri Line	0.00		
		Total	207.91	Auxiliary Consumption & Transformation Losses at Generator end	0.54%		
2	4 x 180MW MHP	Unit-I	75.81	400kV MHP - Jigmeling Line - I	0.00	Unit-III under Shutdown. Unit-IV under AMP. 400kV MHP-JLG Line - III on Standby. 400kV MHP-JLG line - I under Shutdown.	
		Unit-II	79.83	400kV MHP - Jigmeling Line - II	24.57		
		Unit-III	0.00	400kV MHP - Jigmeling Line - III	0.00		
		Unit-IV	0.00	400kV MHP - Jigmeling Line - IV	24.47		
		-	-	220kV Jigmeling - BitDeer Line - I	168.04		
		-	-	220kV Jigmeling - BitDeer Line - II	205.20		
		-	-	500MVA, 400/220kV ICT at Jigmeling (HV)	425.46		
		-	-	400kV Jigmeling - Alipurduar Line - I	-98.18		
		-	-	400kV Jigmeling - Alipurduar Line - II	-90.18		
		-	-	80MVA, 220/132kV ICT - I (HV)	-27.50		
		-	-	80MVA, 220/132kV ICT - II (HV)	-27.15		
		-	-	132kV MHP - Yurmo Line - II	68.15		
		-	-	132kV MHP - Tintibi Line	60.18		
		-	-	132kV Gelephu - Salakati Line	-57.07		
Total	155.64	Auxiliary Consumption & Transformation Losses at Generator end	0.04%				
3	6 x 170MW PHP-II	Unit-I	0.00	400kV PHP II - Jigmeling -I	129.20	Unit-I, II & IV under Shutdown (Annual Maintenance). Unit-III & V under AMP. 400kV PHPII - JLG-II & 400kV PHPII - ALI-II on Standby.	
		Unit-II	0.00	400kV PHP II - Jigmeling -II	0.00		
		Unit-III	0.00	400kV PHP II - Alipurduar -I	0.00		
		Unit-IV	0.00	400kV PHP II - Alipurduar -II	-18.87		
		Unit-V	0.00	-	-		
		Unit-VI	110.32	-	-		
		Total	110.32	Auxiliary Consumption & Transformation Losses at Generator end	-0.01%		
4	4 x 84MW CHP	Unit-I	0.00	220kV CHP - Birpara Line - I	-96.46	Unit-I & II under Shutdown (Annual Maintenance).	
		Unit-II	0.00	220kV CHP - Birpara Line - II	-95.26		
		Unit-III	20.02	220kV CHP - Gedu	-86.72		
		Unit-IV	21.00	220kV CHP - Jamjee - I	105.50		
		-	-	220kV CHP - Jamjee - II	105.60		
		-	-	220kV CHP - Jamjee - III	104.12		
		-	-	220kV Malbase - Birpara Line	-76.50		
-	-	66kV CHP - Gedu Line	4.10				
Total	41.02	Auxiliary Consumption & Transformation Losses at Generator end	0.34%				
5	2 x 12MW BHP (U/S)	Unit-I	6.10	220kV BHP - Sertokha Line	56.03	L/S Unit-I under AMP. U/S unit-II under Shutdown..	
		Unit-II	0.00	66kV BHP - Lobeysa Line	23.10		
		Total	6.10	220kV BHP - Tsirang Line	-62.24		
6	2 x 20MW BHP (L/S)	Unit-I	0.00	5MVA, 66/11kV TFR	0.86		
		Unit-II	12.01	30MVA ICT, 220/66kV (HV)	19.21		
		Total	12.01	Auxiliary Consumption & Transformation Losses at Generator end	1.99%		
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	25.85		
		-	-	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	0.00	132kV KHP - Nangkor Line	1.87	Unit-II under Shutdown (AMP). Unit-I on Standby.	
		Unit-II	0.00	132kV KHP - Kilikhar Line	12.91		
		Unit-III	15.37	5MVA, 132/11kV TFR	0.38		
		Unit-IV	0.00	132kV Motanga - Rangia Line	-13.09		
		Total	15.37	Auxiliary Consumption & Transformation Losses at Generator end	1.37%		
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	21.99	132kV NHP-MHP-II	21.80		
		Total	21.99	Auxiliary Consumption & Transformation Losses at Generator end	0.86%		
10	2 x 9MW SHP	Unit-I	4.15	66kV SHP-Damdhum (Samtse)	0.00	Unit-II on Standby. Interim measure: Evacuation is through 33kV System.	
		Unit-II	0.00	-	-		
		Total	4.15	Auxiliary Consumption & Transformation Losses at Generator end	100.00%		
Note: Generation-Load Summary (MW) for 01-Feb-2026 at 18:00 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)	574.51	1,295.02	-720.51			
Note: Generation-Load Summary (MW) for 01-Feb-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)	945.85	900.93	44.92			
Note: Daily Energy (MUs) and Power(MW) Statistics for 01-Feb-2026							
Sl. No.	Total Energy Generation	Daily Energy Met	Net Energy Import (IEX and Solar)	Net Energy Export	Peak Cross-border (MW)		
1	14.33	31.41	17.08	1.07	-972.09		

- 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.
 - 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.