



འབྲུག་རྒྱལ་ཁབ་ལྷན་ཞུགས་པའི་རྒྱུ་རྩའི་ལྷན་ཁག་ འཕུལ་ལྷན་འཕུགས་ཁག་  
 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 21-Jan-2026(+ve:import, +ve:export)							
Report Details	Date	Time	National Coincidental Peak Load (MW)		Date	Time	Load
	January 20, 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	187.40	400kV THP - Siliguri Line - I	66.77	Unit-IV, V & VI under Shutdown (Annual Maintenance). 400kV THP_NIP line remains under shutdown. NIP insisted to charge 400kV NIP_SIL line together with 400kV THP_NIP.	
		Unit-II	187.36	400kV THP - Siliguri Line - II	65.62		
		Unit-III	160.24	400kV THP - Norbugang - IV	0.00		
		Unit-IV	0.00	400kV THP - Malbase Line - III	397.97		
		Unit-V	0.00	400kV Malbase - Siliguri Line	-9.86		
		Unit-VI	0.00	400kV Norbugang-Siliguri Line	0.00		
		<b>Total</b>	<b>535.00</b>	<b>Auxiliary Consumption &amp; Transformation Losses at Generator end</b>	<b>0.87%</b>		
2	4 x 180MW MHP	Unit-I	0.00	400kV MHP - Jigmeling Line - I	131.09	Unit-I under Shutdown (Annual Maintenance). Unit-IV on Standby. 400kV MHP-JIG Line - II & III on Standby as other two lines can cater the load.	
		Unit-II	190.11	400kV MHP - Jigmeling Line - II	0.00		
		Unit-III	181.16	400kV MHP - Jigmeling Line - III	0.00		
		Unit-IV	0.00	400kV MHP - Jigmeling Line - IV	132.19		
		-	-	220kV Jigmeling - BitDeer Line - I	182.60		
		-	-	220kV Jigmeling - BitDeer Line - II	202.60		
		-	-	500MVA, 400/220kV ICT at Jigmeling (HV)	422.91		
		-	-	400kV Jigmeling - Alipurduar Line - I	30.55		
		-	-	400kV Jigmeling - Alipurduar Line - II	28.36		
		-	-	80MVA, 220/132kV ICT - I (HV)	-19.59		
		-	-	80MVA, 220/132kV ICT - II (HV)	-19.40		
		-	-	132kV MHP - Yurmo Line - II	67.15		
		-	-	132kV MHP - Tintibi Line	60.97		
		-	-	132kV Gelephu - Salakati Line	-37.51		
<b>Total</b>	<b>371.27</b>	<b>Auxiliary Consumption &amp; Transformation Losses at Generator end</b>	<b>0.46%</b>				
3	6 x 170MW PHP-II	Unit-I	0.00	400kV PHP II - Jigmeling - I	224.10	Unit-I & II under Shutdown (Annual Maintenance). Unit-IV and V on Standby. 400kV PHP II-Jigmeling-II and 400kV PHP II_ALI I on standby.	
		Unit-II	0.00	400kV PHP II - Jigmeling - II	0.00		
		Unit-III	183.86	400kV PHP II - Alipurduar - I	0.00		
		Unit-IV	0.00	400kV PHP II - Alipurduar - II	144.04		
		Unit-V	0.00	-	-		
		Unit-VI	185.22	-	-		
		<b>Total</b>	<b>369.08</b>	<b>Auxiliary Consumption &amp; Transformation Losses at Generator end</b>	<b>0.25%</b>		
4	4 x 84MW CHP	Unit-I	0.00	220kV CHP - Birpara Line - I	-98.41	Unit-I & II under Shutdown (Annual Maintenance).	
		Unit-II	0.00	220kV CHP - Birpara Line - II	-97.67		
		Unit-III	14.98	220kV CHP - Gedu	-116.69		
		Unit-IV	16.08	220kV CHP - Jamjee - I	115.27		
		-	-	220kV CHP - Jamjee - II	114.14		
		-	-	220kV CHP - Jamjee - III	110.90		
		-	-	220kV Malbase - Birpara Line	-56.32		
		-	-	66kV CHP - Gedu Line	3.40		
<b>Total</b>	<b>31.06</b>	<b>Auxiliary Consumption &amp; Transformation Losses at Generator end</b>	<b>0.39%</b>				
5	2 x 12MW BHP (U/S)	Unit-I	0.00	220kV BHP - Semtokha Line	2.96	L/S Unit-II under AMP. U/S Unit-I under Shutdown. 220kV BHP-TSI Line under Shutdown.	
		Unit-II	5.63	66kV BHP - Lobeysa Line	16.24		
		<b>Total</b>	<b>5.63</b>	220kV BHP - Tsirang Line	0.00		
6	2 x 20MW BHP (L/S)	Unit-I	16.03	5MVA, 66/11kV TFR	0.75		
		Unit-II	0.00	30MVA ICT, 220/66kV (HV)	10.62		
		<b>Total</b>	<b>16.03</b>	<b>Auxiliary Consumption &amp; Transformation Losses at Generator end</b>	<b>7.89%</b>		
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	58.29		
		-	-	5MVA, 220/33kV TFR	0.20		
		<b>Total</b>	<b>0.00</b>	<b>Auxiliary Consumption &amp; Transformation Losses at Generator end</b>	<b>0.00%</b>		
8	4 x 15MW KHP	Unit-I	12.15	132kV KHP - Nangkor Line	9.57	Unit-IV under Shutdown for penstock painting. Unit-III under Shutdown (Annual Maintenance).	
		Unit-II	12.16	132kV KHP - Kilikhar Line	14.18		
		Unit-III	0.00	5MVA, 132/11kV TFR	0.36		
		Unit-IV	0.00	132kV Motanga - Rangia Line	-13.00		
		<b>Total</b>	<b>24.31</b>	<b>Auxiliary Consumption &amp; Transformation Losses at Generator end</b>	<b>0.82%</b>		
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	22.03	132kV NHP-MHP-II	21.83		
		<b>Total</b>	<b>22.03</b>	<b>Auxiliary Consumption &amp; Transformation Losses at Generator end</b>	<b>0.91%</b>		
10	2 x 9MW SHP	Unit-I	4.80	66kV SHP-Damdhum (Samtse)	0.00	Unit-II on Standby. Interim measure: Evacuation is through 33kV System.	
		Unit-II	0.00	-	-		
		<b>Total</b>	<b>4.80</b>	<b>Auxiliary Consumption &amp; Transformation Losses at Generator end</b>	<b>100.00%</b>		
11	17.38 MWp Sephu (Solar)	Inverter-1	0.00	33kV SSP-Wangdue	7.05	Inverter-1 & 5 on Standby. 33kV SSP-Trongsa Feeder under shutdown.	
		Inverter-2	2.57	33kV SSP-Trongsa	0.00		
		Inverter-3	2.49	-	-		
		Inverter-4	1.99	-	-		
		Inverter-5	0.00	-	-		
		<b>Total</b>	<b>7.05</b>	<b>Auxiliary Consumption &amp; Transformation Losses at Generator end</b>	<b>0.00%</b>		

Note: Generation-Load Summary (MW) for 20-Jan-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)	1,386.26	1,363.69	22.57

Note: Generation-Load Summary (MW) for 20-Jan-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)	900.44	857.64	42.80

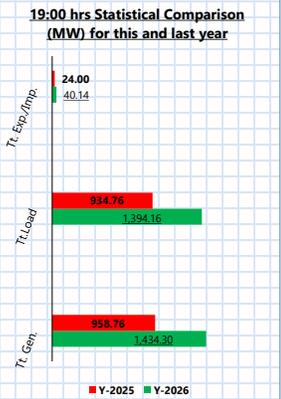
09:00 hrs Statistical Comparison (MW) for this and last year



THE DAILY BHUTAN POWER SYSTEM OPERATOR LOAD-GENERATION BALANCE REPORT & ENERGY FIGURES ISSUED ON 21-Jan-2026(-ve:import, +ve:export)							
Report Details	Date	Time	National Coincidental Peak Load (MW)		Date	Time	Load
	January 20, 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	184.02	400kV THP - Siliguri Line - I	77.45	Unit- IV, V & VI under Shutdown (Annual Maintenance). 400kV THP_NIP line remains under shutdown. NIP insisted to charge 400kV NIP_SIL line together with 400kV THP_NIP.	
		Unit-II	180.14	400kV THP - Siliguri Line - II	76.36		
		Unit-III	179.21	400kV THP - Norbugang Line - IV	0.00		
		Unit-IV	0.00	400kV THP - Malbase Line - III	386.48		
		Unit-V	0.00	400kV Malbase - Siliguri Line	4.26		
		Unit-VI	0.00	400kV Norbugang-Siliguri Line	0.00		
		<b>Total</b>	<b>543.37</b>	<b>Auxiliary Consumption &amp; Transformation Losses at Generator end</b>	<b>0.57%</b>		
2	4 x 180MW MHP	Unit-I	0.00	400kV MHP - Jigmeling Line - I	119.02	Unit-I under Shutdown (Annual Maintenance). Unit-IV on Standby. 400kV MHP-JIG Line - II & III on Standby.	
		Unit-II	176.01	400kV MHP - Jigmeling Line - II	0.00		
		Unit-III	175.54	400kV MHP - Jigmeling Line - III	0.00		
		Unit-IV	0.00	400kV MHP - Jigmeling Line - IV	119.48		
		-	-	220kV Jigmeling - BitDeer Line - I	182.37		
		-	-	220kV Jigmeling - BitDeer Line - II	204.90		
		-	-	500MVA, 400/220kV ICT at Jigmeling (HV)	424.73		
		-	-	400kV Jigmeling - Alipurduar Line - I	11.64		
		-	-	400kV Jigmeling - Alipurduar Line - II	8.73		
		-	-	80MVA, 220/132kV ICT - I (HV)	-19.78		
		-	-	80MVA, 220/132kV ICT - II (HV)	-19.54		
		-	-	132kV MHP - Yurmo Line - II	68.38		
		-	-	132kV MHP - Tintibi Line	64.46		
		-	-	132kV Gelephu - Salakati Line	-46.36		
		<b>Total</b>	<b>351.55</b>	<b>Auxiliary Consumption &amp; Transformation Losses at Generator end</b>	<b>0.58%</b>		
3	6 x 170MW PHP-II	Unit-I	0.00	400kV PHP II - Jigmeling -I	210.48	Unit-I & II under Shutdown (Annual Maintenance). Unit- IV & V on Standby. 400kV PHPII - Jigmeling-II and 400kV PHP II_ALI I on standby.	
		Unit-II	0.00	400kV PHP II - Jigmeling -II	0.00		
		Unit-III	164.48	400kV PHP II - Alipurduar -I	0.00		
		Unit-IV	0.00	400kV PHP II - Alipurduar -II	117.01		
		Unit-V	0.00	-	-		
		Unit-VI	165.44	-	-		
		<b>Total</b>	<b>329.92</b>	<b>Auxiliary Consumption &amp; Transformation Losses at Generator end</b>	<b>0.74%</b>		
4	4 x 84MW CHP	Unit-I	0.00	220kV CHP - Birpara Line - I	-75.78	Unit-I & II under Shutdown (Annual Maintenance).	
		Unit-II	0.00	220kV CHP - Birpara Line - II	-75.03		
		Unit-III	70.62	220kV CHP - Gedu	-78.29		
		Unit-IV	69.77	220kV CHP - Jamjee - I	124.52		
		-	-	220kV CHP - Jamjee - II	122.20		
		-	-	220kV CHP - Jamjee - III	118.19		
		-	-	220kV Malbase - Birpara Line	-47.44		
-	-	66kV CHP - Gedu Line	4.69				
<b>Total</b>	<b>140.39</b>	<b>Auxiliary Consumption &amp; Transformation Losses at Generator end</b>	<b>-0.08%</b>				
5	2 x 12MW BHP (U/S)	Unit-I	0.00	220kV BHP - Sertokha Line	-2.14	L/S Unit-II under AMP. U/S unit-I under Shutdown.. 220kV BHP-TSI line under Shutdown.	
		Unit-II	6.50	66kV BHP - Lobeysa Line	21.11		
		<b>Total</b>	<b>6.50</b>	220kV BHP - Tsirang Line	0.00		
6	2 x 20MW BHP (L/S)	Unit-I	13.60	5MVA, 66/11kV TFR	0.96		
		Unit-II	0.00	30MVA ICT, 220/66kV (HV)	15.63		
		<b>Total</b>	<b>13.60</b>	<b>Auxiliary Consumption &amp; Transformation Losses at Generator end</b>	<b>0.85%</b>		
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	59.43		
		-	-	5MVA, 220/33kV TFR	0.20		
<b>Total</b>	<b>0.00</b>	<b>Auxiliary Consumption &amp; Transformation Losses at Generator end</b>	<b>0.00%</b>				
8	4 x 15MW KHP	Unit-I	11.16	132kV KHP - Nangkor Line	9.27	Unit-IV under Shutdown for penstock painting. Unit-III under Shutdown (Annual Maintenance).	
		Unit-II	11.17	132kV KHP - Kilikhar Line	12.61		
		Unit-III	0.00	5MVA, 132/11kV TFR	0.34		
		Unit-IV	0.00	132kV Motanga - Rangia Line	-10.70		
		<b>Total</b>	<b>22.33</b>	<b>Auxiliary Consumption &amp; Transformation Losses at Generator end</b>	<b>0.48%</b>		
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	21.82		
		<b>Total</b>	<b>21.99</b>	<b>Auxiliary Consumption &amp; Transformation Losses at Generator end</b>	<b>0.77%</b>		
10	2 x 9MW SHP	Unit-I	4.65	66kV SHP-Damdhum (Samtse)	0.00	Unit-II on Standby. Interim measure: Evacuation is through 33kV System.	
		Unit-II	0.00	-	-		
		<b>Total</b>	<b>4.65</b>	<b>Auxiliary Consumption &amp; Transformation Losses at Generator end</b>	<b>100.00%</b>		

**Note: Generation-Load Summary (MW) for 20-Jan-2026 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)	1,434.30	1,394.16	40.14



**Note: Generation-Load Summary (MW) for 20-Jan-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)	958.76	934.76	24.00

**Note: Daily Energy (MUs) and Power(MW) Statistics for 20-Jan-2026**

Sl. No.	Total Energy Generation	Daily Energy Met	Net Energy Import (IEX and Solar)	Net Energy Export	Peak Cross-border (MW)
1	14.93	31.75	16.82	0.28	-972.70

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.