



ལྷན་ཁྲིམས་དང་འཕེལ་རྒྱུ་ལྷན་ཁྲིམས་ འཕེལ་རྒྱུ་ལྷན་ཁྲིམས་  
 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 19-Jan-2026(-veimport, +veexport)							
Report Details	Date	Time	National Coincidental Peak Load (MW)		Date	Time	Load
	January 18, 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	187.31	400kV THP - Siliguri Line - I	80.76	Unit-IV,V & VI under Shutdown (Annual Maintenance). 400kV THP_SIL Line IV under Shutdown as the 400kV THP_NIP line was declared faulty after being unable to charge following the completion of LILO work.	
		Unit-II	187.64	400kV THP - Siliguri Line - II	79.80		
		Unit-III	160.30	400kV THP - Siliguri Line - IV	0.00		
		Unit-IV	0.00	400kV THP - Malbase Line - III	370.11		
		Unit-V	0.00	400kV Malbase - Siliguri Line	12.00		
		Unit-VI	0.00	-	-		
		<b>Total</b>	<b>535.25</b>	<b>Auxiliary Consumption &amp; Transformation Losses at Generator end</b>	<b>0.86%</b>		
2	4 x 180MW MHP	Unit-I	0.00	400kV MHP - Jigmeling Line - I	0.00	Unit-I under Shutdown (Annual Maintenance). Unit-IV on Standby. 400kV MHP-JIG Line - I & III on Standby as other two lines can cater the load. 400kV JIG_AL1 I on Standby.	
		Unit-II	179.78	400kV MHP - Jigmeling Line - II	128.79		
		Unit-III	180.75	400kV MHP - Jigmeling Line - III	0.00		
		Unit-IV	0.00	400kV MHP - Jigmeling Line - IV	129.70		
		-	-	220kV Jigmeling - BitDeer Line - I	185.00		
		-	-	220kV Jigmeling - BitDeer Line - II	202.00		
		-	-	500MVA, 400/220kV ICT at Jigmeling (HV)	425.82		
		-	-	400kV Jigmeling - Alipurduar Line - I	0.00		
		-	-	400kV Jigmeling - Alipurduar Line - II	-19.64		
		-	-	80MVA, 220/132kV ICT - I (HV)	-18.95		
		-	-	80MVA, 220/132kV ICT - II (HV)	-18.73		
		-	-	132kV MHP - Yurmo Line - II	62.89		
		-	-	132kV MHP - Tintibi Line	64.57		
		-	-	132kV Gelephu - Salakati Line	-39.82		
<b>Total</b>	<b>360.53</b>	<b>Auxiliary Consumption &amp; Transformation Losses at Generator end</b>	<b>-0.17%</b>				
3	6 x 170MW PHP-II	Unit-I	0.00	400kV PHP II - Jigmeling - I	159.27	Unit-I & II under Shutdown (Annual Maintenance). Unit-V and III on Standby. 400kV PHP II-Jigmeling-II tripped at 7:56hrs on 18.01.2026.	
		Unit-II	0.00	400kV PHP II - Jigmeling - II	0.00		
		Unit-III	0.00	400kV PHP II - Alipurduar - I	55.61		
		Unit-IV	140.00	400kV PHP II - Alipurduar - II	55.15		
		Unit-V	0.00	-	-		
		Unit-VI	135.00	-	-		
		<b>Total</b>	<b>275.00</b>	<b>Auxiliary Consumption &amp; Transformation Losses at Generator end</b>	<b>1.81%</b>		
4	4 x 84MW CHP	Unit-I	0.00	220kV CHP - Birpara Line - I	-69.45	Unit-I & II under Shutdown (Annual Maintenance).	
		Unit-II	0.00	220kV CHP - Birpara Line - II	-69.57		
		Unit-III	64.63	220kV CHP - Gedu	-62.70		
		Unit-IV	65.49	220kV CHP - Jamjee - I	110.27		
		-	-	220kV CHP - Jamjee - II	109.33		
		-	-	220kV CHP - Jamjee - III	105.46		
		-	-	220kV Malbase - Birpara Line	-50.88		
-	-	66kV CHP - Gedu Line	5.20				
<b>Total</b>	<b>130.12</b>	<b>Auxiliary Consumption &amp; Transformation Losses at Generator end</b>	<b>1.21%</b>				
5	2 x 12MW BHP (U/S)	Unit-I	0.00	220kV BHP - Semtokha Line	3.70	L/S Unit-II under AMP. U/S Unit-I under Shutdown. 220kV BHP-TSI Line under Shutdown.	
		Unit-II	6.70	66kV BHP - Lobeysa Line	15.64		
		<b>Total</b>	<b>6.70</b>	220kV BHP - Tsirang Line	0.00		
6	2 x 20MW BHP (L/S)	Unit-I	13.40	5MVA, 66/11kV TFR	0.64		
		Unit-II	0.00	30MVA ICT, 220/66kV (HV)	9.68		
		<b>Total</b>	<b>13.40</b>	<b>Auxiliary Consumption &amp; Transformation Losses at Generator end</b>	<b>0.60%</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	58.45		
		-	-	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	15.34	132kV KHP - Nangkor Line	3.26	Unit-II on standby. Unit-IV under Shutdown for penstock painting. Unit-III under Shutdown (Annual Maintenance).	
		Unit-II	0.00	132kV KHP - Kilikhar Line	11.53		
		Unit-III	0.00	5MVA, 132/11kV TFR	0.37		
		Unit-IV	0.00	132kV Motanga - Rangia Line	-11.61		
		<b>Total</b>	<b>15.34</b>	<b>Auxiliary Consumption &amp; Transformation Losses at Generator end</b>	<b>1.17%</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	25.00	132kV NHP-MHP-II	24.79		
		<b>Total</b>	<b>25.00</b>	<b>Auxiliary Consumption &amp; Transformation Losses at Generator end</b>	<b>0.84%</b>		
10	2 x 9MW SHP	Unit-I	5.11	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>5.11</b>	<b>Auxiliary Consumption &amp; Transformation Losses at Generator end</b>	<b>100.00%</b>		
11	17.38 MWp Sephu (Solar)	Inverter-1	1.42	33kV SSP-Wangdue	6.37		
		Inverter-2	2.52	33kV SSP-Trongsa	5.84		
		Inverter-3	2.44	-	-		
		Inverter-4	3.20	-	-		
		Inverter-5	2.63	-	-		
		<b>Total</b>	<b>12.21</b>	<b>Auxiliary Consumption &amp; Transformation Losses at Generator end</b>	<b>-0.02%</b>		

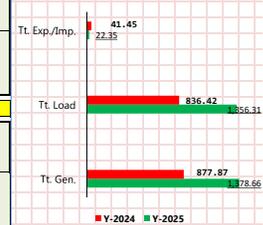
Note: Generation-Load Summary (MW) for 18-Jan-26 at 09:00 hrs

Sl. No.	Region	Total Generation	Total Domestic Load (Total Generation - Total Export)	Total Export(+ve)/Import(-ve)
1	Both Eastern & Western (Whole Bhutan)	1,378.66	1,356.31	22.35

Note: Generation-Load Summary (MW) for 18-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)	877.87	836.42	41.45

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 19-Jan-2026(-ve:import, +ve:export)							
Report Details	Date	Time	National Coincidental Peak Load (MW)		Date	Time	Load
	January 18, 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	180.33	400kV THP - Siliguri Line - I	76.83	Unit- IV, V & VI under Shutdown (Annual Maintenance). 400kV THP_SIL Line IV under Shutdown as the 400kV THP_NIP line was declared faulty after being unable to charge following the completion of LILO work.	
		Unit-II	180.61	400kV THP - Siliguri Line - II	75.65		
		Unit-III	184.19	400kV THP - Siliguri Line - IV	0.00		
		Unit-IV	0.00	400kV THP - Malbase Line - III	388.34		
		Unit-V	0.00	400kV Malbase - Siliguri Line	3.60		
		Unit-VI	0.00	-	-		
		<b>Total</b>	<b>545.13</b>	<b>Auxiliary Consumption &amp; Transformation Losses at Generator end</b>	<b>0.79%</b>		
2	4 x 180MW MHP	Unit-I	0.00	400kV MHP - Jigmeling Line - I	0.00	Unit-I under Shutdown (Annual Maintenance). Unit-IV on Standby. 400kV MHP-JIG Line - I & III on Standby.	
		Unit-II	180.53	400kV MHP - Jigmeling Line - II	122.39		
		Unit-III	180.25	400kV MHP - Jigmeling Line - III	0.00		
		Unit-IV	0.00	400kV MHP - Jigmeling Line - IV	123.25		
		-	-	220kV Jigmeling - BitDeer Line - I	182.28		
		-	-	220kV Jigmeling - BitDeer Line - II	205.99		
		-	-	500MVA, 400/220kV ICT at Jigmeling (HV)	436.00		
		-	-	400kV Jigmeling - Alipurduar Line - I	2.18		
		-	-	400kV Jigmeling - Alipurduar Line - II	2.91		
		-	-	80MVA, 220/132kV ICT - I (HV)	25.40		
		-	-	80MVA, 220/132kV ICT - II (HV)	25.10		
		-	-	132kV MHP - Yurmo Line - II	67.02		
		-	-	132kV MHP - Tintibi Line	70.49		
		-	-	132kV Gelephu - Salakati Line	-28.58		
		<b>Total</b>	<b>360.78</b>	<b>Auxiliary Consumption &amp; Transformation Losses at Generator end</b>	<b>0.70%</b>		
3	6 x 170MW PHP-II	Unit-I	0.00	400kV PHP II - Jigmeling -I	200.37	Unit-I & II under Shutdown (Annual Maintenance). Unit- III & V on Standby. 400kV PHP_II-Jigmeling-II which tripped during morning hours remains under inspection at PHPA end.	
		Unit-II	0.00	400kV PHP II - Jigmeling -II	0.00		
		Unit-III	0.00	400kV PHP II - Alipurduar -I	0.00		
		Unit-IV	150.00	400kV PHP II - Alipurduar -II	103.50		
		Unit-V	0.00	-	-		
		Unit-VI	150.00	-	-		
		<b>Total</b>	<b>300.00</b>	<b>Auxiliary Consumption &amp; Transformation Losses at Generator end</b>	<b>-1.29%</b>		
4	4 x 84MW CHP	Unit-I	0.00	220kV CHP - Birpara Line - I	-78.30	Unit-I & II under Shutdown (Annual Maintenance).	
		Unit-II	0.00	220kV CHP - Birpara Line - II	-77.60		
		Unit-III	69.35	220kV CHP - Gedu	-80.74		
		Unit-IV	60.58	220kV CHP - Jamjee - I	122.16		
		-	-	220kV CHP - Jamjee - II	120.92		
		-	-	220kV CHP - Jamjee - III	116.50		
		-	-	220kV Malbase - Birpara Line	-48.50		
-	-	66kV CHP - Gedu Line	4.94				
<b>Total</b>	<b>129.93</b>	<b>Auxiliary Consumption &amp; Transformation Losses at Generator end</b>	<b>1.58%</b>				
5	2 x 12MW BHP (U/S)	Unit-I	0.00	220kV BHP - Sertokha Line	-1.67	L/S Unit-II under AMP. U/S unit-I under Shutdown... 220kV BHP-TSI line under Shutdown.	
		Unit-II	5.25	66kV BHP - Lobeysa Line	20.89		
		<b>Total</b>	<b>5.25</b>	220kV BHP - Tsirang Line	0.00		
6	2 x 20MW BHP (L/S)	Unit-I	15.00	5MVA, 66/11kV TFR	0.88		
		Unit-II	0.00	30MVA ICT, 220/66kV (HV)	15.00		
		<b>Total</b>	<b>15.00</b>	<b>Auxiliary Consumption &amp; Transformation Losses at Generator end</b>	<b>0.74%</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	58.00		
		-	-	5MVA, 220/33kV TFR	0.00		
<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	12.17	132kV KHP - Nangkor Line	7.14	Unit-IV under Shutdown for penstock painting. Unit-III under Shutdown (Annual Maintenance).	
		Unit-II	12.16	132kV KHP - Kilikhar Line	16.42		
		Unit-III	0.00	5MVA, 132/11kV TFR	0.75		
		Unit-IV	0.00	132kV Motanga - Rangia Line	-1.84		
		<b>Total</b>	<b>24.33</b>	<b>Auxiliary Consumption &amp; Transformation Losses at Generator end</b>	<b>0.08%</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	24.97	132kV NHP-MHP-II	24.91		
		<b>Total</b>	<b>24.97</b>	<b>Auxiliary Consumption &amp; Transformation Losses at Generator end</b>	<b>0.24%</b>		
10	2 x 9MW SHP	Unit-I	4.75	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>4.75</b>	<b>Auxiliary Consumption &amp; Transformation Losses at Generator end</b>	<b>100.00%</b>		

**Note: Generation-Load Summary (MW) for 18-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)	1,410.14	1,380.29	29.85

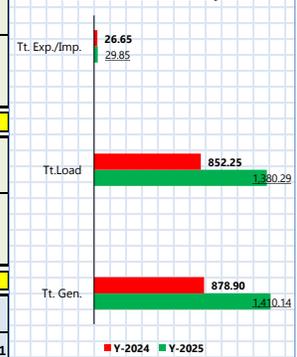
**Note: Generation-Load Summary (MW) for 18-Jan-2025, at 18:00 hrs**

Sl. No.	Region	Total Generation	Total Domestic Load (Total Generation - Total Export)	Total Export(+ve)/ Import(-ve)
1	Both Eastern & Western (Whole Bhutan)	878.90	852.25	26.65

**Note: Daily Energy (MUs) and Power(MW) Statistics for 18-Jan-2026**

Sl. No.	Total Energy Generation	Daily Energy Met	Net Energy Import (IEX and Solar)	Net Energy Export	Peak Cross-border (MW)
1	15.87	31.21	15.59	0.06	57.71

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



- 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.