



Note: Generation-Load Summary (MW) for 28-Apr-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)	883.68	854.35	29.33

Note: Generation-Load Summary (MW) for 28-Apr-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)	701.56	882.11	-180.55

THE DAILY BHUTAN POWER SYSTEM OPERATOR LOAD-GENERATION BALANCE REPORT & ENERGY FIGURES ISSUED ON 29-Apr-2025(-ve:import, +ve:export)							
Report Details	Date	Time	National Coincidental Peak Load (MW)		Date	Time	Load
	April 28, 2025	18:00:00			25-Dec-2024	18:36	1026.44
Sl. No.	Hydropower Plant	Unit	MW	Transmission Lines and Elements	Load (MW)	Remarks	
1	6 x 170MW THP	Unit- I	0.00	400kV THP - Siliguri Line - I	54.70	Unit-IV under AMP. Unit-I on Standby. Unit-II & III under Shutdown. 400kV THP-SIL Line I on Standby. 400kV THP-SIL Line IV under AMP.	
		Unit- II	0.00	400kV THP - Siliguri Line - II	0.00		
		Unit- III	0.00	400kV THP - Siliguri Line - IV	0.00		
		Unit- IV	0.00	400kV THP - Malbase Line - III	280.44		
		Unit- V	166.25	400kV Malbase - Siliguri Line	2.80		
		Unit- VI	169.26	-	-		
		Total	335.51	Auxiliary Consumption & Transformation Losses at Generator end	0.11%		
2	4 x 180MW MHP	Unit-I	76.03	400kV MHP - Jigmeling Line - I	0.00	Unit-II under AMP. 400kV MHP-JLG line-I on Standby. 400kV MHP-JLG line-II under ROW. 400kV MHP-JLG line-III tripped at 16:28hrs. 132kV MHP_Yurmoo Line- I not in Service.	
		Unit-II	0.00	400kV MHP - Jigmeling Line - II	0.00		
		Unit-III	74.38	400kV MHP - Jigmeling Line - III	79.27		
		Unit-IV	70.19	400kV MHP - Jigmeling Line - IV	79.27		
		-	-	132kV MHP - Yurmo Line - I	0.00		
		-	-	132kV MHP - Yurmo Line - II	93.00		
		-	-	500MVA, 400/220kV ICT at Jigmeling (HV)	170.55		
		-	-	400kV Jigmeling - Alipurduar Line - I	138.18		
		-	-	400kV Jigmeling - Alipurduar Line - II	136.73		
		-	-	80MVA, 220/132kV ICT - I (HV)	-7.34		
		-	-	80MVA, 220/132kV ICT - II (HV)	-7.23		
		-	-	220kV Tsirang - Jigmeling Line	-125.21		
		-	-	132kV Gelephu - Salakati Line	-0.36		
		Total	220.60	Auxiliary Consumption & Transformation Losses at Generator end	-1.44%		
3	6 x 170MW PHP-II	Unit- I	0.00	400kV PHP II - Jigmeling -I	0.00	Unit-I on Standby. 400kV PHP-II - Jigmeling Line-I on Standby.	
		Unit- II	139.22	400kV PHP II - Jigmeling -II	278.81		
		Unit- III	140.28	400kV PHP II - Alipurduar -I	0.00		
		Unit- IV	0.00	400kV PHP II - Alipurduar -II	0.00		
		Unit- V	0.00	-	-		
		Unit- VI	0.00	-	-		
		Total	279.50	Auxiliary Consumption & Transformation Losses at Generator end	0.25%		
4	4 x 84MW CHP	Unit- I	70.78	220kV CHP - Birpara Line - I	-52.89	Unit-IV under Shutdown Unit-II under AMP.	
		Unit- II	0.00	220kV CHP - Birpara Line - II	-52.56		
		Unit- III	70.86	220kV CHP - Gedu	10.49		
		Unit- IV	0.00	220kV CHP - Jamjee - I	77.90		
		-	-	220kV CHP - Jamjee - II	77.39		
		-	-	220kV CHP - Jamjee - III	74.33		
		-	-	220kV Malbase - Birpara Line	-51.96		
		-	-	66kV CHP - Gedu Line	5.86		
		-	-	3x3MVA, 66/11kV TFR	1.51		
		Total	141.64	Auxiliary Consumption & Transformation Losses at Generator end	-0.28%		
5	2 x 12MW BHP (U/S)	Unit- I	5.10	220kV BHP - Semtokha Line	110.90	U/S Unit-II & L/S Unit-II on Standby	
		Unit- II	0.00	66kV BHP - Lobeysa Line	25.89		
		Total	5.10	220kV BHP - Tsirang Line	-121.98		
6	2 x 20MW BHP (L/S)	Unit- I	10.30	5MVA, 66/11kV TFR	0.45		
		Unit- II	0.00	30MVA ICT, 220/66kV (HV)	21.57		
Total	10.30	Auxiliary Consumption & Transformation Losses at Generator end	0.91%				
7	2 x 63MW DHP	Unit-I	21.24	220kV DHP - Tsirang Line	0.00	Unit-II on Standby. 220kV DHP-Tsirang line under Shutdown.	
		Unit-II	0.00	220kV DHP - Dagapela Line	21.02		
		-	-	220kV Jigmeling - Dagapela Line	29.71		
		-	-	5MVA, 220/33kV TFR	0.20		
		Total	21.24	Auxiliary Consumption & Transformation Losses at Generator end	0.09%		
8	4 x 15MW KHP	Unit- I	0.00	132kV KHP - Nangkhor Line	21.98	Unit- I on Standby.	
		Unit-II	12.13	132kV KHP - Kilikhar Line	13.80		
		Unit- III	12.15	5MVA, 132/11kV TFR	0.31		
		Unit- IV	12.17	132kV Motanga - Rangia Line	28.62		
		Total	36.45	Auxiliary Consumption & Transformation Losses at Generator end	0.99%		
9	2 x 59MW NHP	Unit-I	0.00	132kV NHP-MHP-I	27.77	Unit-I under Shutdown. 132kV NHP-MHP line-II under AMP.	
		Unit-II	27.99	132kV NHP-MHP-II	0.00		
		Total	27.99	Auxiliary Consumption & Transformation Losses at Generator end	0.79%		
10	2 x 9MW SHP	Unit- I	0.00	66kV SHP-Damdhum (Samtse)	0.00	Interim measure: evacuation is through 33kV system. Unit-I & Unit-II tripped at 17:58hrs.	
		Unit- II	0.00	-	-		
		Total	0.00	Auxiliary Consumption & Transformation Losses at Generator end	0.00%		
Note: Generation-Load Summary (MW) for 28-Apr-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)	1,078.33	875.07		203.26		
Note: Generation-Load Summary (MW) for 28-Apr-2024, 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)	687.89	861.36		-173.47		
Note: Daily Energy (MUs) and Power(MW) Statistics for 28-Apr-2025							
Sl. No.	Total Energy Generation	Daily Energy Met	Net Energy Import (IEX and Solar)	Net Energy Export	Peak Cross-border (MW)		
1	22.13	20.47	0.01	1.61	219.97		

1. The Instantaneous load balance,calculated as (Total generation - (Total export-Import) - Total domestic load), do not tend towards zero. This could be due to the following reasons:

- i) Not all the meters are digital and now 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.