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Ministry of Energy and Natural Resources
Royal Government of Bhutan
Office of the Bhutan Power System Operator
Thimphu: Bhutan



THE DAILY BHUTAN POWER SYSTEM OPERATOR LOAD-GENERATION BALANCE REPORT & ENERGY FIGURES ISSUED ON 08-May-2025(-ve:import, +ve:export)						
Report Details		Date	Time	National Coincidental Peak Load (MW)		
		May 7, 2025	9:00 AM			
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	27.30	Unit-I, II & III under shutdown for Penstock Cleaning. 400kV THP-SIL Line II & IV on Standby.
		Unit- II	0.00	400kV THP - Siliguri Line - II	0.00	
		Unit- III	0.00	400kV THP - Siliguri Line - IV	0.00	
		Unit- IV	95.12	400kV THP - Malbase Line - III	265.34	
		Unit- V	94.29	400kV Malbase - Siliguri Line	-24.89	
		Unit- VI	101.55	-	-	
		Total	290.96	Auxiliary Consumption & Transformation Losses at Generator end	-0.58%	
2	4 x 180MW MHP	Unit-I	85.20	400kV MHP - Jigmeling Line - I	0.00	Unit-II under Shutdown. 400kV MHP-JLG line-I Standby. 400kV MHP-JLG line-II standby 132kV MHP_Yummo Line-I not in Service.
		Unit-II	0.00	400kV MHP - Jigmeling Line - II	0.00	
		Unit-III	100.37	400kV MHP - Jigmeling Line - III	115.03	
		Unit-IV	81.48	400kV MHP - Jigmeling Line - IV	114.18	
		-	-	132kV MHP - Yurno Line - I	0.00	
		-	-	132kV MHP - Yurno Line - II	64.85	
		-	-	500MVA, 400/220kV ICT at Jigmeling (HV)	194.91	
		-	-	400kV Jigmeling - Alipurduar Line - I : direct lines	155.64	
		-	-	400kV Jigmeling - Alipurduar Line - II :	154.91	
		-	-	80MVA, 220/132kV ICT - I (HV)	-24.65	
		-	-	80MVA, 220/132kV ICT - II (HV)	-25.52	
		-	-	220kV Tsirang - Jigmeling Line	-115.07	
		-	-	132kV Gelephu - Salakati Line	-2.62	
		Total	267.05	Auxiliary Consumption & Transformation Losses at Generator end	-0.90%	
3	6 x 170MW PHP-II	Unit- I	49.72	400kV PHP II - Jigmeling -I	0.00	Unit II on standby 400kV PHP-II - Jigmeling Line-I on Standby.
		Unit- II	0.00	400kV PHP II - Jigmeling -II	229.00	
		Unit- III	179.67	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	229.39	Auxiliary Consumption & Transformation Losses at Generator end	0.17%	
4	4 x 84MW CHP	Unit- I	23.06	220kV CHP - Birpara Line - I	-47.42	Unit-IV under Shutdown.
		Unit- II	83.15	220kV CHP - Birpara Line - II	-47.28	
		Unit- III	34.17	220kV CHP - Gedu	12.26	
		Unit- IV	0.00	220kV CHP - Jamjee (old) - I	72.78	
		-	-	220kV CHP - Jamjee - II (new)	72.15	
		-	-	220kV CHP - Jamjee - III (new)	69.75	
		-	-	220kV Malbase - Birpara Line	-45.16	
		-	-	66kV CHP - Gedu Line	7.16	
		-	-	3x3MVA, 66/11kV TFR	1.29	
		Total	140.38	Auxiliary Consumption & Transformation Losses at Generator end	-0.22%	
5	2 x 12MW BHP (U/S)	Unit- I	6.40	220kV BHP - Semtokha Line	105.33	U/S Unit II on Standby.
		Unit- II	0.00	66kV BHP - Lobeysha Line	24.23	
		Total	6.40	220kV BHP - Tsirang Line	-111.45	
6	2 x 20MW BHP (L/S)	Unit- I	5.98	5MVA, 66/11kV TFR	0.40	
		Unit- II	5.78	30MVA ICT, 220/66kV (HV)	18.55	
		Total	11.76	Auxiliary Consumption & Transformation Losses at Generator end	-1.93%	
7	2 x 63MW DHP	Unit-I	0.00	220kV DHP - Tsirang Line	0.00	DHP- Tsirang line kept on Idle charge. Unit-I on Standby.
		Unit-II	24.00	220kV DHP - Dagapela Line	23.50	
		-	-	220kV Jigmeling - Dagapela Line	26.50	
		-	-	5MVA, 220/33kV TFR	0.20	
		Total	24.00	Auxiliary Consumption & Transformation Losses at Generator end	1.25%	
8	4 x 15MW KHP	Unit- I	0.00	132kV KHP - Nangkhori Line	25.68	Unit-I on Standby.
		Unit-II	15.14	132kV KHP - Kilikhar Line	18.99	
		Unit- III	15.15	5MVA, 132/11kV TFR	0.27	
		Unit- IV	15.17	132kV Motanga - Rangia Line	11.33	
		Total	45.46	Auxiliary Consumption & Transformation Losses at Generator end	1.14%	
9	2 x 59MW NHP	Unit-I	0.00	132kV NHP-MHP-I	24.60	Unit-I under Shutdown. 132kV NHP-MHP line-II on Standby.
		Unit-II	24.81	132kV NHP-MHP-II	0.00	
		Total	24.81	Auxiliary Consumption & Transformation Losses at Generator end	0.85%	
10	2 x 9MW SHP	Unit- I	0.00	66kV SHP-Damdhum (Samtse)	0.00	Unit I under Shutdown Interim measure: evacuation is through 33kV system.
		Unit- II	5.15	-	-	
		Total	5.15	Auxiliary Consumption & Transformation Losses at Generator end	100.00%	

Note: Generation-Load Summary (MW) for 07-May-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)	1,045.36	863.55	181.81

Note: Generation-Load Summary (MW) for 07-May-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)	464.22	856.64	-392.42

THE DAILY BHUTAN POWER SYSTEM OPERATOR LOAD-GENERATION BALANCE REPORT & ENERGY FIGURES ISSUED ON 08-May-2025(-ve:import, +ve:export)							
Report Details	Date	Time	National Coincidental Peak Load (MW)		Date	Time	Load
	May 7, 2025	19:00:00			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	0.77	Unit-I, II & III under shutdown for Penstock Cleaning. 400kV THP-SIL Line II & IV on Standby.	
		Unit- II	0.00	400kV THP - Siliguri Line - II	0.00		
		Unit- III	0.00	400kV THP - Siliguri Line - IV	0.00		
		Unit- IV	94.95	400kV THP - Malbase Line - III	255.17		
		Unit- V	74.43	400kV Malbase - Siliguri Line	-52.36		
		Unit- VI	86.59	-	-		
		Total	255.97	Auxiliary Consumption & Transformation Losses at Generator end	0.01%		
2	4 x 180MW MHP	Unit-I	144.86	400kV MHP - Jigmeling Line - I	0.00	Unit-II under Shutdown. 400kV MHP-JLG line-I on Standby. 400kV MHP-JLG line-II on Standby. 132kV MHP - Yurmoo Line- I not in Service.	
		Unit-II	0.00	400kV MHP - Jigmeling Line - II	0.00		
		Unit-III	80.21	400kV MHP - Jigmeling Line - III	134.70		
		Unit-IV	62.28	400kV MHP - Jigmeling Line - IV	134.18		
		-	-	132kV MHP - Yurmoo Line - I	0.00		
		-	-	132kV MHP - Yurmoo Line - II	62.60		
		-	-	500MVA, 400/220kV ICT at Jigmeling (HV)	-235.80		
		-	-	400kV Jigmeling - Alipurduar Line - I	190.55		
		-	-	400kV Jigmeling - Alipurduar Line - II	188.36		
		-	-	80MVA, 220/132kV ICT - I (HV)	-32.22		
		-	-	80MVA, 220/132kV ICT - II (HV)	-31.97		
		-	-	220kV Tsirang - Jigmeling Line	-138.76		
		-	-	132kV Gelephu - Salakati Line	-8.12		
		Total	287.35	Auxiliary Consumption & Transformation Losses at Generator end	0.19%		
3	6 x 170MW PHP-II	Unit- I	179.20	400kV PHP II - Jigmeling -I	0.00	Unit-II on Standby. 400kV PHP-II - Jigmeling Line-I on Standby.	
		Unit- II	0.00	400kV PHP II - Jigmeling -II	228.14		
		Unit- III	169.20	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	348.40	Auxiliary Consumption & Transformation Losses at Generator end	34.52%		
4	4 x 84MW CHP	Unit- I	23.09	220kV CHP - Birpara Line - I	-50.80	Unit-IV under Shutdown .	
		Unit- II	83.16	220kV CHP - Birpara Line - II	-50.60		
		Unit- III	24.15	220kV CHP - Gedu	5.66		
		Unit- IV	0.00	220kV CHP - Jamjee - I	74.63		
		-	-	220kV CHP - Jamjee - II	74.05		
		-	-	220kV CHP - Jamjee - III	71.52		
		-	-	220kV Malbase - Birpara Line	-46.01		
		-	-	66kV CHP - Gedu Line	7.77		
		-	-	3x3MVA, 66/11kV TFR	1.46		
		Total	130.40	Auxiliary Consumption & Transformation Losses at Generator end	-2.52%		
5	2 x 12MW BHP (U/S)	Unit- I	6.00	220kV BHP - Semtokha Line	123.80	U/S Unit-II & L/S Unit I on standby	
		Unit- II	0.00	66kV BHP - Lobeysa Line	27.42		
		Total	6.00	220kV BHP - Tsirang Line	-133.76		
6	2 x 20MW BHP (L/S)	Unit- I	0.00	5MVA, 66/11kV TFR	0.57		
		Unit- II	11.60	30MVA ICT, 220/66kV (HV)	22.38		
		Total	11.60	Auxiliary Consumption & Transformation Losses at Generator end	-2.44%		
7	2 x 63MW DHP	Unit-I	0.00	220kV DHP - Tsirang Line	0.00	Unit-I on Standby. 220kV DHP-TSI line kept on Idle charge.	
		Unit-II	19.76	220kV DHP - Dagapela Line	19.50		
		-	-	220kV Jigmeling - Dagapela Line	30.50		
		-	-	5MVA, 220/33kV TFR	0.20		
		Total	19.76	Auxiliary Consumption & Transformation Losses at Generator end	0.30%		
8	4 x 15MW KHP	Unit- I	0.00	132kV KHP - Nangkhor Line	22.49	Unit- I on Standby.	
		Unit-II	13.44	132kV KHP - Kilikhar Line	17.24		
		Unit- III	13.51	5MVA, 132/11kV TFR	0.40		
		Unit- IV	13.50	132kV Motanga - Rangla Line	13.48		
		Total	40.45	Auxiliary Consumption & Transformation Losses at Generator end	0.79%		
9	2 x 59MW NHP	Unit-I	0.00	132kV NHP-MHP-I	44.68	Unit-I under Shutdown. 132kV NHP-MHP line-II on Standby.	
		Unit-II	45.03	132kV NHP-MHP-II	0.00		
		Total	45.03	Auxiliary Consumption & Transformation Losses at Generator end	0.78%		
10	2 x 9MW SHP	Unit- I	0.00	66kV SHP-Damdhum (Samtse)	0.00	Interim measure: evacuation is through 33kV system.	
		Unit- II	-	-	-		
		Total	0.00	Auxiliary Consumption & Transformation Losses at Generator end	0.00%		

Note: Generation-Load Summary (MW) for 07-May-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)	1,144.96	959.69	185.27

Note: Generation-Load Summary (MW) for 07-May-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)	944.75	879.55	65.20

Note: Daily Energy (MUs) and Power(MW) Statistics for 07-May-2025

Sl. No.	Total Energy Generation	Daily Energy Met	Net Energy Import (IEX and Solar)	Net Energy Export	Peak Cross-border (MW)
1	25.66	21.61	0.00	4.04	271.01

- 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:
 - 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.
- 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.