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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 27-May-2025(-ve:import, +ve:export)						
Report Details	Date	Time		National Coincidental Peak Load (MW)		Load
	May 26, 2025	9:00 AM				25-Dec-24 18:38:16 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	0.00	Unit-I under Shutdown. Unit-II on Standby. 400kV THP-Siliguri Line -I under Shutdown.
		Unit- II	0.00	400kV THP - Siliguri Line - II	67.28	
		Unit- III	62.26	400kV THP - Siliguri Line- IV	65.00	
		Unit- IV	159.76	400kV THP - Malbase Line - III	267.71	
		Unit- V	10.53	400kV Malbase - Siliguri Line	20.00	
		Unit- VI	168.63	-	-	
		Total	401.18	Auxiliary Consumption & Transformation Losses at Generator end	0.30%	
2	4 x 180MW MHP	Unit-I	0.00	400kV MHP - Jigmeling Line - I	188.61	Unit-1 under shutdown. 400kV MHP-JLG line- II & III on Standby. 132kV MHP_Yumoo Line- I not in Service.
		Unit-II	70.74	400kV MHP - Jigmeling Line - II	0.00	
		Unit-III	145.41	400kV MHP - Jigmeling Line - III	0.00	
		Unit-IV	145.17	400kV MHP - Jigmeling Line - IV	189.20	
		-	-	132kV MHP - Yurno Line - I	0.00	
		-	-	132kV MHP - Yurno Line - II	61.31	
		-	-	500MVA, 400/220kV ICT at Jigmeling (HV)	205.82	
		-	-	400kV Jigmeling - Alipurduar Line - I : direct lines	291.00	
		-	-	400kV Jigmeling - Alipurduar Line - II :	290.00	
		-	-	80MVA, 220/132kV ICT - I (HV)	-30.00	
		-	-	80MVA, 220/132kV ICT - II (HV)	-30.00	
		-	-	220kV Tsirang - Jigmeling Line	-102.61	
		-	-	132kV Gelephu - Salakati Line	7.00	
		Total	361.32	Auxiliary Consumption & Transformation Losses at Generator end	0.45%	
3	6 x 170MW PHP-II	Unit- I	48.76	400kV PHP II - Jigmeling -I	210.18	erstwhile interim lines
		Unit- II	186.63	400kV PHP II - Jigmeling -II	209.46	
		Unit- III	186.36	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	421.75	Auxiliary Consumption & Transformation Losses at Generator end	0.50%	
4	4 x 84MW CHP	Unit- I	78.37	220kV CHP - Birpara Line - I	-26.19	Unit-IV under Shutdown.
		Unit- II	76.17	220kV CHP - Birpara Line - II	-25.87	
		Unit- III	76.22	220kV CHP - Gedu	63.78	
		Unit- IV	0.00	220kV CHP - Jamjee (old) - I	70.82	
		-	-	220kV CHP - Jamjee - II (new)	70.36	
		-	-	220kV CHP - Jamjee - III (new)	67.65	
		-	-	220kV Malbase - Birpara Line	-48.79	
		-	-	66kV CHP - Gedu Line	7.96	
		-	-	3x3MVA, 66/11kV TFR	1.37	
		Total	230.76	Auxiliary Consumption & Transformation Losses at Generator end	0.38%	
5	2 x 12MW BHP (U/S)	Unit- I	4.72	220kV BHP - Semtokha Line	106.82	
		Unit- II	4.45	66kV BHP - Lobeysa Line	24.30	
		Total	9.17	220kV BHP - Tsirang Line	-114.62	
6	2 x 20MW BHP (L/S)	Unit- I	3.94	5MVA, 66/11kV TFR	0.38	
		Unit- II	3.81	30MVA ICT, 220/66kV (HV)	15.90	
		Total	7.75	Auxiliary Consumption & Transformation Losses at Generator end	0.24%	
7	2 x 63MW DHP	Unit-I	28.30	220kV DHP - Tsirang Line	0.00	220kV DHP- Tsirang line kept on Standby. DHP Unit II on Standby.
		Unit-II	0.00	220kV DHP - Dagapela Line	28.10	
		-	-	220kV Jigmeling - Dagapela Line	21.20	
		-	-	5MVA, 220/33kV TFR	0.18	
		Total	28.30	Auxiliary Consumption & Transformation Losses at Generator end	0.07%	
8	4 x 15MW KHP	Unit- I	16.46	132kV KHP - Nangkhori Line	31.36	Unit-III on standby
		Unit-II	16.45	132kV KHP - Kilikhar Line	17.36	
		Unit- III	0.00	5MVA, 132/11kV TFR	0.27	
		Unit- IV	16.48	132kV Motanga - Rangia Line	17.87	
		Total	49.39	Auxiliary Consumption & Transformation Losses at Generator end	0.81%	
9	2 x 59MW NHP	Unit-I	39.99	132kV NHP-MHP-I	39.71	
		Unit-II	39.99	132kV NHP-MHP-II	39.72	
		Total	79.98	Auxiliary Consumption & Transformation Losses at Generator end	0.69%	
10	2 x 9MW SHP	Unit- I	4.50	66kV SHP-Damdhum (Samtse)	0.00	Interim measure: evacuation is through 33kV system.
		Unit- II	4.42	-	-	
		Total	8.92	Auxiliary Consumption & Transformation Losses at Generator end	100.00%	

Note: Generation-Load Summary (MW) for 26-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)	1,598.52	941.22	657.30

Note: Generation-Load Summary (MW) for 26-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)	1,177.83	864.75	306.91

THE DAILY BHUTAN POWER SYSTEM OPERATOR LOAD-GENERATION BALANCE REPORT & ENERGY FIGURES ISSUED ON 27-May-2025(-ve:import, +ve:export)						
Report	Date	Time	National Coincidental Peak Load (MW)		Date	Time
Details	May 26, 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	0.00	Unit-I under Shutdown. Unit-V on Standby. 400kV THP-Siliguri Line -I under Shutdown.
		Unit- II	139.61	400kV THP - Siliguri Line - II	74.30	
		Unit- III	39.34	400kV THP - Siliguri Line - IV	68.80	
		Unit- IV	121.76	400kV THP - Malbase Line - III	296.30	
		Unit- V	0.00	400kV Malbase - Siliguri Line	21.07	
		Unit- VI	139.08	-	-	
		Total	439.79	Auxiliary Consumption & Transformation Losses at Generator end	0.09%	
2	4 x 180MW MHP	Unit-I	0.00	400kV MHP - Jigmeling Line - I	179.19	Unit I on Standby. 400kV MHP-JLG line-II & III on Standby. 132kV MHP_Yurmoo Line- I not in Service.
		Unit-II	149.86	400kV MHP - Jigmeling Line - II	0.00	
		Unit-III	137.74	400kV MHP - Jigmeling Line - III	0.00	
		Unit-IV	79.97	400kV MHP - Jigmeling Line - IV	179.82	
		-	-	132kV MHP - Yurmo Line - I	0.00	
		-	-	132kV MHP - Yurmo Line - II	62.77	
		-	-	500MVA, 400/220kV ICT at Jigmeling (HV)	204.36	
		-	-	400kV Jigmeling - Alipurduar Line - I ; direct lines	288.73	
		-	-	400kV Jigmeling - Alipurduar Line - II ;	287.27	
		-	-	80MVA, 220/132kV ICT - I (HV)	-31.62	
		-	-	80MVA, 220/132kV ICT - II (HV)	-31.39	
		-	-	220kV Tsirang - Jigmeling Line	-102.61	
		-	-	132kV Gelephu - Salakati Line	11.22	
		Total	367.57	Auxiliary Consumption & Transformation Losses at Generator end	0.11%	
3	6 x 170MW PHP-II	Unit- I	181.00	400kV PHP II - Jigmeling -I	230.50	Unit-IV under load throw test.
		Unit- II	168.00	400kV PHP II - Jigmeling -II	226.70	
		Unit- III	51.00	400kV PHP II - Alipurduar -I	0.00	
		Unit- IV	60.00	400kV PHP II - Alipurduar -II	0.00	
		Unit- V	0.00	-	-	
		Unit- VI	0.00	-	-	
		Total	460.00	Auxiliary Consumption & Transformation Losses at Generator end	0.61%	
4	4 x 84MW CHP	Unit- I	70.76	220kV CHP - Birpara Line - I	-23.32	Unit- IV under Shutdown.
		Unit- II	69.42	220kV CHP - Birpara Line - II	-23.21	
		Unit- III	79.73	220kV CHP - Gedu	52.11	
		Unit- IV	0.00	220kV CHP - Jamjee - I	69.34	
		-	-	220kV CHP - Jamjee - II	69.15	
		-	-	220kV CHP - Jamjee - III	66.76	
		-	-	220kV Malbase - Birpara Line	-36.57	
		-	-	66kV CHP - Gedu Line	8.28	
		-	-	3x3MVA, 66/11kV TFR	1.45	
		Total	219.91	Auxiliary Consumption & Transformation Losses at Generator end	-0.30%	
5	2 x 12MW BHP (U/S)	Unit- I	6.87	220kV BHP - Semtokha Line	126.64	
		Unit- II	5.05	66kV BHP - Lobeysa Line	28.05	
		Total	11.92	220kV BHP - Tsirang Line	-123.09	
6	2 x 20MW BHP (L/S)	Unit- I	10.03	5MVA, 66/11kV TFR	0.60	
		Unit- II	9.67	30MVA ICT, 220/66kV (HV)	17.18	
		Total	19.70	Auxiliary Consumption & Transformation Losses at Generator end	-1.83%	
7	2 x 63MW DHP	Unit-I	35.33	220kV DHP - Tsirang Line	0.00	220kV DHP-TSI line on Standby. Unit-II on standby.
		Unit-II	0.00	220kV DHP - Dagapela Line	35.09	
		-	-	220kV Jigmeling - Dagapela Line	14.10	
		-	-	5MVA, 220/33kV TFR	0.23	
		Total	35.33	Auxiliary Consumption & Transformation Losses at Generator end	0.03%	
8	4 x 15MW KHP	Unit- I	16.30	132kV KHP - Nangkhor Line	41.44	
		Unit-II	16.38	132kV KHP - Kilikhar Line	23.35	
		Unit- III	16.54	5MVA, 132/11kV TFR	0.34	
		Unit- IV	16.53	132kV Motanga - Rangia Line	33.52	
		Total	65.75	Auxiliary Consumption & Transformation Losses at Generator end	0.94%	
9	2 x 59MW NHP	Unit-I	40.05	132kV NHP-MHP-I	14.87	
		Unit-II	15.01	132kV NHP-MHP-II	39.75	
		Total	55.06	Auxiliary Consumption & Transformation Losses at Generator end	0.80%	
10	2 x 9MW SHP	Unit- I	5.00	66kV SHP-Damdhum (Samtse)	0.00	Interim measure: evacuation is through 33kV system. Test for Unit-II is being carried out.
		Unit- II	0.00	-	-	
		Total	5.00	Auxiliary Consumption & Transformation Losses at Generator end	100.00%	

Note: Generation-Load Summary (MW) for 26-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)	1,680.03	978.22	701.81

Note: Generation-Load Summary (MW) for 26-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)	1,326.10	647.54	671.02

Note: Daily Energy (MUs) and Power(MW) Statistics for 26-May-2025

Sl. No.	Total Energy Generation	Daily Energy Met	Net Energy Import (IEX and Solar)	Net Energy Export	Peak Cross-border (MW)
1	41.93	21.79	0.00	19.79	969.01

- 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.