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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-Jun-2025(-ve:import, +ve:export)						
Report Details	Date	Time		National Coincidental Peak Load (MW)	Date	Time
	June 26, 2025	9:00 AM			25-Dec-24	18:38:16
Load						
1026.44						
Sl. No.	Hydropower Plant	Unit	MW	Transmission Lines and Elements	Load (MW)	Remarks
1	6 x 170MW THP	Unit- I	185.34	400kV THP - Siliguri Line - I	253.71	400kV Malbase-Siliguri Line under Shutdown (Line patrolling).
		Unit- II	185.55	400kV THP - Siliguri Line - II	252.13	
		Unit- III	185.41	400kV THP - Siliguri Line- IV	244.61	
		Unit- IV	186.14	400kV THP - Malbase Line - III	245.97	
		Unit- V	185.38	400kV Malbase - Siliguri Line	0.00	
		Unit- VI	65.70	-	-	
		Total	993.52	Auxiliary Consumption & Transformation Losses at Generator end	-0.29%	
2	4 x 180MW MHP	Unit-I	197.96	400kV MHP - Jigmeling Line - I	277.00	400kV MHP-Jigmeling Line- II on Standby. 132kV MHP_Yurmoo Line- I not in Service.
		Unit-II	197.49	400kV MHP - Jigmeling Line - II	0.00	
		Unit-III	191.35	400kV MHP - Jigmeling Line - III	286.48	
		Unit-IV	198.33	400kV MHP - Jigmeling Line - IV	286.48	
		-	-	132kV MHP - Yurmo Line - I	0.00	
		-	-	132kV MHP - Yurmo Line - II	61.31	
		-	-	500MVA, 400/220kV ICT at Jigmeling (HV)	245.46	
		-	-	400kV Jigmeling - Alipurduar Line - I	662.55	
		-	-	400kV Jigmeling - Alipurduar Line - II	662.55	
		-	-	80MVA, 220/132kV ICT - I (HV)	66.82	
		-	-	80MVA, 220/132kV ICT - II (HV)	66.43	
		-	-	220kV Jigmeling - BitDeer Line	56.20	
		-	-	132kV Gelephu - Salakati Line	34.73	
		Total	785.13	Auxiliary Consumption & Transformation Losses at Generator end	0.36%	
		3	6 x 170MW PHP-II	Unit- I	186.00	
Unit- II	185.00			400kV PHP II - Jigmeling -II	368.00	
Unit- III	188.07			400kV PHP II - Alipurduar -I	0.00	
Unit- IV	187.37			400kV PHP II - Alipurduar -II	0.00	
Unit- V	0.00			-	-	
Unit- VI	0.00			-	-	
Total	746.44			Auxiliary Consumption & Transformation Losses at Generator end	1.20%	
4	4 x 84MW CHP	Unit- I	91.69	220kV CHP - Birpara Line - I	45.52	
		Unit- II	91.28	220kV CHP - Birpara Line - II	44.78	
		Unit- III	91.42	220kV CHP - Gedu	128.07	
		Unit- IV	91.64	220kV CHP - Jamjee (old) - I	46.35	
		-	-	220kV CHP - Jamjee - II (new)	46.07	
		-	-	220kV CHP - Jamjee - III (new)	44.49	
		-	-	220kV Malbase - Birpara Line	17.04	
		-	-	66kV CHP - Gedu Line	8.45	
		-	-	3x3MVA, 66/11kV TFR	1.32	
		Total	366.03	Auxiliary Consumption & Transformation Losses at Generator end	0.27%	
5	2 x 12MW BHP (U/S)	Unit- I	9.50	220kV BHP - Semtokha Line	154.00	
		Unit- II	10.20	66kV BHP - Lobeyza Line	25.80	
		Total	19.70	220kV BHP - Tsirang Line	-131.86	
6	2 x 20MW BHP (L/S)	Unit- I	14.70	5MVA, 66/11kV TFR	0.44	
		Unit- II	14.20	30MVA ICT, 220/66kV (HV)	7.41	
		Total	28.90	Auxiliary Consumption & Transformation Losses at Generator end	0.45%	
7	2 x 63MW DHP	Unit-I	37.38	220kV DHP - Tsirang Line	72.94	220kV DHP - Dagapela Line on Standby.
		Unit-II	36.02	220kV DHP - Dagapela Line	0.00	
		-	-	220kV BitDeer - Dagapela Line	47.84	
		-	-	5MVA, 220/33kV TFR	0.44	
		Total	73.40	Auxiliary Consumption & Transformation Losses at Generator end	0.03%	
8	4 x 15MW KHP	Unit- I	16.51	132kV KHP - Nangkhor Line	41.68	
		Unit-II	16.43	132kV KHP - Kilikhar Line	23.24	
		Unit- III	16.54	5MVA, 132/11kV TFR	0.34	
		Unit- IV	16.42	132kV Motanga - Rangia Line	56.62	
		Total	65.90	Auxiliary Consumption & Transformation Losses at Generator end	0.97%	
9	2 x 59MW NHP	Unit-I	64.89	132kV NHP-MHP-I	64.48	
		Unit-II	64.85	132kV NHP-MHP-II	64.49	
		Total	129.74	Auxiliary Consumption & Transformation Losses at Generator end	0.59%	
10	2 x 9MW SHP	Unit- I	5.00	66kV SHP-Damdhum (Samtse)	0.00	Interim measure: evacuation is through 33kV system.
		Unit- II	4.90	-	-	
		Total	9.90	Auxiliary Consumption & Transformation Losses at Generator end	100.00%	

Note: Generation-Load Summary (MW) for 26-Jun-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)	3,218.66	944.42	2,274.24

Note: Generation-Load Summary (MW) for 26-Jun-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)	2,306.78	879.21	1,427.57

THE DAILY BHUTAN POWER SYSTEM OPERATOR LOAD-GENERATION BALANCE REPORT & ENERGY FIGURES ISSUED ON 27-Jun-2025(-ve:import, +ve:export)							
Report Details	Date	Time	National Coincidental Peak Load (MW)		Date	Time	Load
	June 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	185.73	400kV THP - Siliguri Line - I	185.90		400kV Malbase_Siliguri Line under Shutdown.
		Unit- II	185.41	400kV THP - Siliguri Line - II	185.30		
		Unit- III	185.83	400kV THP - Siliguri Line - IV	179.00		
		Unit- IV	60.03	400kV THP - Malbase Line - III	247.30		
		Unit- V	89.07	400kV Malbase - Siliguri Line	0.00		
		Unit- VI	91.71	-	-		
		Total	797.78	Auxiliary Consumption & Transformation Losses at Generator end			
2	4 x 180MW MHP	Unit-I	197.82	400kV MHP - Jigmeling Line - I	276.06		400kV MHP-JLG Line- II on Standby. 132kV MHP_Yurmoo Line- I not in Service. 132 kV Gelephu-Salakati Line under Shutdown.(Shutdown availed by NLDC India)
		Unit-II	198.00	400kV MHP - Jigmeling Line - II	0.00		
		Unit-III	191.72	400kV MHP - Jigmeling Line - III	285.78		
		Unit-IV	198.02	400kV MHP - Jigmeling Line - IV	285.41		
		-	-	132kV MHP - Yurmoo Line - I	0.00		
		-	-	132kV MHP - Yurmoo Line - II	62.85		
		-	-	500MVA, 400/220kV ICT at Jigmeling (HV)	242.18		
		-	-	400kV Jigmeling - Alipurduar Line - I	666.91		
		-	-	400kV Jigmeling - Alipurduar Line - II	668.36		
		-	-	80MVA, 220/132kV ICT - I (HV)	56.05		
		-	-	80MVA, 220/132kV ICT - II (HV)	55.57		
		-	-	220kV Jigmeling Line - BitDeer	67.90		
		-	-	132kV Gelephu - Salakati Line	0.00		
		Total	785.56	Auxiliary Consumption & Transformation Losses at Generator end			
3	6 x 170MW PHP-II	Unit- I	186.00	400kV PHP II - Jigmeling -I	370.18		erstwhile interim lines
		Unit- II	186.77	400kV PHP II - Jigmeling -II	369.46		
		Unit- III	186.80	400kV PHP II - Alipurduar -I	0.00		
		Unit- IV	186.60	400kV PHP II - Alipurduar -II	0.00		
		Unit- V	0.00	-	-		
		Unit- VI	0.00	-	-		
		Total	746.17	Auxiliary Consumption & Transformation Losses at Generator end			
4	4 x 84MW CHP	Unit- I	91.73	220kV CHP - Birpara Line - I	43.53		
		Unit- II	91.43	220kV CHP - Birpara Line - II	43.14		
		Unit- III	91.30	220kV CHP - Gedu	130.37		
		Unit- IV	91.57	220kV CHP - Jamjee - I	46.35		
		-	-	220kV CHP - Jamjee - II	46.11		
		-	-	220kV CHP - Jamjee - III	44.49		
		-	-	220kV Malbase - Birpara Line	13.48		
		-	-	66kV CHP - Gedu Line	9.23		
		-	-	3x3MVA, 66/11kV TFR	1.42		
		Total	366.03	Auxiliary Consumption & Transformation Losses at Generator end			
5	2 x 12MW BHP (U/S)	Unit- I	8.60	220kV BHP - Semtokha Line	158.50		
		Unit- II	8.90	66kV BHP - Lobeyasa Line	26.92		
		Total	17.50	220kV BHP - Tsirang Line	-141.84		
	6	2 x 20MW BHP (L/S)	Unit- I	13.60	5MVA, 66/11kV TFR		
Unit- II			13.50	30MVA ICT, 220/66kV (HV)	10.34		
Total	27.10	Auxiliary Consumption & Transformation Losses at Generator end		0.99%			
7	2 x 63MW DHP	Unit-I	32.28	220kV DHP - Tsirang Line	65.31		220kV DHP-Dagapela Line on Standby.
		Unit-II	33.52	220kV DHP - Dagapela Line	0.00		
		-	-	220kV BitDeer - Dagapela Line	47.50		
		-	-	5MVA, 220/33kV TFR	0.48		
		Total	65.80	Auxiliary Consumption & Transformation Losses at Generator end			
8	4 x 15MW KHP	Unit- I	16.49	132kV KHP - Nangkhor Line	39.91		
		Unit-II	16.46	132kV KHP - Kilikhar Line	24.99		
		Unit- III	16.53	5MVA, 132/11kV TFR	0.42		
		Unit- IV	16.55	132kV Motanga - Rangia Line	58.60		
		Total	66.03	Auxiliary Consumption & Transformation Losses at Generator end			
9	2 x 59MW NHP	Unit-I	64.92	132kV NHP-MHP-I	64.46		
		Unit-II	64.93	132kV NHP-MHP-II	64.48		
		Total	129.85	Auxiliary Consumption & Transformation Losses at Generator end			
10	2 x 9MW SHP	Unit- I	5.00	66kV SHP-Damdhum (Samtse)	0.00		Interim measure: evacuation is through 33kV system.
		Unit- II	4.99	-	-		
		Total	9.99	Auxiliary Consumption & Transformation Losses at Generator end			
Note: Generation-Load Summary (MW) for 26-Jun-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)	3,011.81		967.59		2,044.22	
Note: Generation-Load Summary (MW) for 26-Jun-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)	2,311.34		928.69		1,382.65	
Note: Daily Energy (MUs) and Power(MW) Statistics for 26-Jun-2025							
Sl. No.	Total Energy Generation	Daily Energy Met	Net Energy Import (IEX and Solar)	Net Energy Export	Peak Cross-border (MW)		
1	74.85	22.07	0.00	52.75	2,468.64		

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.