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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 16-Jun-2025(-ve:import, +ve:export)						
Report Details		Date	Time	National Coincidental Peak Load (MW)		Load
		June 15, 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	79.90	400kV THP - Siliguri Line - I	20.76	400kV THP-Siliguri Line -IV on Standby. Unit-III & Unit VI on Standby.
		Unit- II	80.25	400kV THP - Siliguri Line - II	18.88	
		Unit- III	0.00	400kV THP - Siliguri Line - IV	0.00	
		Unit- IV	61.06	400kV THP - Malbase Line - III	267.58	
		Unit- V	84.48	400kV Malbase - Siliguri Line	-33.80	
		Unit- VI	0.00	-	-	
		Total	305.69	Auxiliary Consumption & Transformation Losses at Generator end	-0.50%	
2	4 x 180MW MHP	Unit-I	134.76	400kV MHP - Jigmeling Line - I	131.82	Unit III under shutdown. 400kV MHP-JLG line- III on Standby. 132kV MHP_Yurmoo Line- I not in Service. 220kV Tsirang-Jigmeling Line kept open for Shutdown of 220kV Jigmeling-Dagapela Line.
		Unit-II	130.12	400kV MHP - Jigmeling Line - II	131.24	
		Unit-III	0.00	400kV MHP - Jigmeling Line - III	0.00	
		Unit-IV	137.22	400kV MHP - Jigmeling Line - IV	128.01	
		-	-	132kV MHP - Yurmo Line - I	0.00	
		-	-	132kV MHP - Yurmo Line - II	60.30	
		-	-	500MVA, 400/220kV ICT at Jigmeling (HV)	102.18	
		-	-	400kV Jigmeling - Alipurduar Line - I	403.64	
		-	-	400kV Jigmeling - Alipurduar Line - II	402.18	
		-	-	80MVA, 220/132kV ICT - I (HV)	51.11	
		-	-	80MVA, 220/132kV ICT - II (HV)	50.72	
		-	-	220kV Tsirang - Jigmeling Line	0.00	
		-	-	132kV Gelephu - Salakati Line	31.91	
		Total	402.10	Auxiliary Consumption & Transformation Losses at Generator end	0.06%	
		3	6 x 170MW PHP-II	Unit- I	175.90	
Unit- II	0.00			400kV PHP II - Jigmeling -II	259.20	
Unit- III	175.30			400kV PHP II - Alipurduar -I	0.00	
Unit- IV	175.00			400kV PHP II - Alipurduar -II	0.00	
Unit- V	0.00			-	-	
Unit- VI	0.00			-	-	
Total	526.20			Auxiliary Consumption & Transformation Losses at Generator end	1.29%	
4	4 x 84MW CHP	Unit- I	65.61	220kV CHP - Birpara Line - I	-56.63	Unit-II under shutdown.
		Unit- II	0.00	220kV CHP - Birpara Line - II	-56.51	
		Unit- III	64.80	220kV CHP - Gedu	-2.23	
		Unit- IV	69.93	220kV CHP - Jamjee (old) - I	105.39	
		-	-	220kV CHP - Jamjee - II (new)	104.63	
		-	-	220kV CHP - Jamjee - III (new)	100.75	
		-	-	220kV Malbase - Birpara Line	-50.90	
		-	-	66kV CHP - Gedu Line	4.05	
		-	-	3x3MVA, 66/11kV TFR	1.26	
		Total	200.34	Auxiliary Consumption & Transformation Losses at Generator end	-0.18%	
5	2 x 12MW BHP (U/S)	Unit- I	0.00	220kV BHP - Sentokha Line	-7.28	U/S Unit-I Standby.
		Unit- II	10.15	66kV BHP - Lobeyza Line	19.71	
		Total	10.15	220kV BHP - Tsirang Line	14.80	
6	2 x 20MW BHP (L/S)	Unit- I	9.02	5MVA, 66/11kV TFR	0.44	
		Unit- II	8.94	30MVA ICT, 220/66kV (HV)	10.35	
		Total	17.96	Auxiliary Consumption & Transformation Losses at Generator end	1.57%	
7	2 x 63MW DHP	Unit-I	0.00	220kV DHP - Tsirang Line	-13.12	DHP Unit-I on Standby. 220kV Jigmeling_ Dagapela under Shutdown.
		Unit-II	34.01	220kV DHP - Dagapela Line	46.70	
		-	-	220kV Jigmeling - Dagapela Line	0.00	
		-	-	5MVA, 220/33kV TFR	0.20	
		Total	34.01	Auxiliary Consumption & Transformation Losses at Generator end	0.68%	
8	4 x 15MW KHP	Unit- I	16.50	132kV KHP - Nangkhori Line	42.06	
		Unit-II	16.57	132kV KHP - Kilikhar Line	23.32	
		Unit- III	16.59	5MVA, 132/11kV TFR	0.29	
		Unit- IV	16.49	132kV Motanga - Rangia Line	54.52	
		Total	66.15	Auxiliary Consumption & Transformation Losses at Generator end	0.73%	
9	2 x 59MW NHP	Unit-I	25.02	132kV NHP-MHP-I	24.77	
		Unit-II	24.99	132kV NHP-MHP-II	24.82	
		Total	50.01	Auxiliary Consumption & Transformation Losses at Generator end	0.84%	
10	2 x 9MW SHP	Unit- I	4.00	66kV SHP-Damdhum (Samtse)	0.00	Interim measure: evacuation is through 33kV system.
		Unit- II	4.50	-	-	
		Total	8.50	Auxiliary Consumption & Transformation Losses at Generator end	100.00%	

Note: Generation-Load Summary (MW) for 15-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)	1,621.11	887.06	734.05

Note: Generation-Load Summary (MW) for 15-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)	1,709.96	887.31	822.75

THE DAILY BHUTAN POWER SYSTEM OPERATOR LOAD-GENERATION BALANCE REPORT & ENERGY FIGURES ISSUED ON 16-Jun-2025(-ve:import, +ve:export)						
Report	Date	Time	National Coincidental Peak Load (MW)		Date	Time
Details	June 15, 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	79.78	400kV THP - Siliguri Line - I	43.49	Unit-III & VI on Standby. 400kV THP-Siliguri Line -IV on Standby.
		Unit- II	95.27	400kV THP - Siliguri Line - II	42.45	
		Unit- III	0.00	400kV THP - Siliguri Line - IV	0.00	
		Unit- IV	130.89	400kV THP - Malbase Line - III	319.47	
		Unit- V	99.05	400kV Malbase - Siliguri Line	-18.79	
		Unit- VI	0.00	-	-	
		Total	404.99	Auxiliary Consumption & Transformation Losses at Generator end	-0.10%	
2	4 x 180MW MHP	Unit-I	171.84	400kV MHP - Jigmeling Line - I	167.18	Unit-III under Stutdown. 400kV MHP-JLG line- III on Standby. 132kV MHP_Yurmo Line- I not in Service. 220kV Tsirang-Jigmeling Line kept open for Shutdown of 220kV Jigmeling-Dagapela Line.
		Unit-II	130.12	400kV MHP - Jigmeling Line - II	166.53	
		Unit-III	0.00	400kV MHP - Jigmeling Line - III	0.00	
		Unit-IV	175.08	400kV MHP - Jigmeling Line - IV	162.65	
		-	-	132kV MHP - Yurmo Line - I	0.00	
		-	-	132kV MHP - Yurmo Line - II	60.99	
		-	-	500MVA, 400/220kV ICT at Jigmeling (HV)	136.00	
		-	-	400kV Jigmeling - Alipurduar Line - I ; direct lines	541.82	
		-	-	400kV Jigmeling - Alipurduar Line - II ; direct lines	541.09	
		-	-	80MVA, 220/132kV ICT - I (HV)	-67.87	
		-	-	80MVA, 220/132kV ICT - II (HV)	-67.37	
		-	-	220kV Tsirang - Jigmeling Line	0.00	
		-	-	132kV Gelephu - Salakati Line	54.64	
		Total	477.04	Auxiliary Consumption & Transformation Losses at Generator end	-5.19%	
3	6 x 170MW PHP-II	Unit- I	185.89	400kV PHP II - Jigmeling -I	370.00	erstwhile interim lines
		Unit- II	186.29	400kV PHP II - Jigmeling -II	375.00	
		Unit- III	186.47	400kV PHP II - Alipurduar -I	0.00	
		Unit- IV	186.39	400kV PHP II - Alipurduar -II	0.00	
		Unit- V	0.00	-	-	
		Unit- VI	0.00	-	-	
		Total	745.04	Auxiliary Consumption & Transformation Losses at Generator end	0.01%	
4	4 x 84MW CHP	Unit- I	70.54	220kV CHP - Birpara Line - I	-28.86	Unit-II on Standby.
		Unit- II	0.00	220kV CHP - Birpara Line - II	-28.68	
		Unit- III	69.62	220kV CHP - Gedu	-39.42	
		Unit- IV	69.85	220kV CHP - Jamjee - I	101.13	
		-	-	220kV CHP - Jamjee - II	99.88	
		-	-	220kV CHP - Jamjee - III	96.30	
		-	-	220kV Malbase - Birpara Line	-67.33	
		-	-	66kV CHP - Gedu Line	8.85	
		-	-	3x3MVA, 66/11kV TFR	1.50	
		Total	210.01	Auxiliary Consumption & Transformation Losses at Generator end	-0.33%	
5	2 x 12MW BHP (U/S)	Unit- I	10.65	220kV BHP - Semtokha Line	12.80	
		Unit- II	10.94	66kV BHP - Lobeysa Line	25.07	
		Total	21.59	220kV BHP - Tsirang Line	8.29	
6	2 x 20MW BHP (L/S)	Unit- I	12.87	5MVA, 66/11kV TFR	0.67	
		Unit- II	12.77	30MVA ICT, 220/66kV (HV)	4.79	
		Total	25.64	Auxiliary Consumption & Transformation Losses at Generator end	0.85%	
7	2 x 63MW DHP	Unit-I	0.00	220kV DHP - Tsirang Line	-4.40	Unit I on Standby. 220kV JLG-DAG line under Shutdown.
		Unit-II	29.01	220kV DHP - Dagapela Line	33.42	
		-	-	220kV Jigmeling - Dagapela Line	0.00	
		-	-	5MVA, 220/33kV TFR	0.20	
		Total	29.01	Auxiliary Consumption & Transformation Losses at Generator end	-0.72%	
8	4 x 15MW KHP	Unit- I	16.50	132kV KHP - Nangkhor Line	29.92	
		Unit-II	16.54	132kV KHP - Kilikhar Line	35.17	
		Unit- III	16.58	5MVA, 132/11kV TFR	0.33	
		Unit- IV	16.46	132kV Motanga - Rangia Line	56.00	
		Total	66.08	Auxiliary Consumption & Transformation Losses at Generator end	1.00%	
9	2 x 59MW NHP	Unit-I	28.01	132kV NHP-MHP-I	27.74	
		Unit-II	28.03	132kV NHP-MHP-II	27.80	
		Total	56.04	Auxiliary Consumption & Transformation Losses at Generator end	0.89%	
10	2 x 9MW SHP	Unit- I	0.00	66kV SHP-Damdhum (Samtse)	-	Unit-I & II under shutdown. Interim measure: evacuation is through 33kV system.
		Unit- II	0.00	-	-	
		Total	0.00	Auxiliary Consumption & Transformation Losses at Generator end	0.00%	

Note: Generation-Load Summary (MW) for 15-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)	2,035.44	899.61	1,135.83

Note: Generation-Load Summary (MW) for 15-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)	1,680.95	855.79	825.16

Note: Daily Energy (MUs) and Power(MW) Statistics for 15-Jun-2025

Sl. No.	Total Energy Generation	Daily Energy Met	Net Energy Import (IEX and Solar)	Net Energy Export	Peak Cross-border (MW)
1	46.00	21.12	0.00	24.97	1,357.72

- 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.