ཤེས་རིག་དང་ཇི་ལན་ལས་ཁུངས། བཀའ་ཁྱིམ་ཀུན་ཁྱབ་ལས་ཁུངས།

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

THE DAILY BHUTAN POWER SYSTEM OPERATOR LOAD-GENERATION BALANCE REPORT & ENERGY FIGURES ISSUED ON 06-Oct-2025(-ve:import, +ve:export)

Report Details	Date	Time	National Coincidental Peak Load (MW)	Date	Time	Load
	October 5, 2025	9:00 AM		29-Sep-25	18:55:08	1,228.51

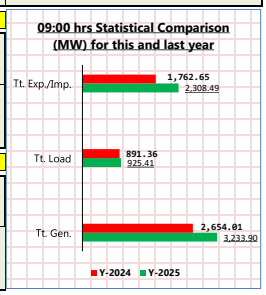
Sl. No.	Hydropower Plant	Unit	MW	Transmission Lines and Elements	Load (MW)	Remarks
1	6 x 170MW THP	Unit- I	187.60	400kV THP - Siliguri Line - I	241.33	All Units and Feeders in service.
		Unit- II	187.82	400kV THP - Siliguri Line - II	240.51	
		Unit- III	187.23	400kV THP - Siliguri Line- IV	231.89	
		Unit- IV	187.28	400kV THP - Malbase Line - III	401.12	
		Unit- V	186.93	400kV Malbase - Siliguri Line	192.00	
		Unit- VI	187.32	-	-	
		Total	1,124.18	Auxiliary Consumption & Transformation Losses at Generator end	0.83%	
2	4 x 180MW MHP	Unit-I	197.81	400kV MHP - Jigmeling Line - I	248.68	All Units in service . 400kV MHP-JIG Line IV kept on Standby as other three lines can cater the load.
		Unit-II	197.89	400kV MHP - Jigmeling Line - II	249.43	
		Unit-III	190.36	400kV MHP - Jigmeling Line - III	242.87	
		Unit-IV	196.48	400kV MHP - Jigmeling Line - IV	0.00	
		-	-	220kV Jigmeling - BitDeer Line - I	179.21	
		-	-	220kV Jigmeling - BitDeer Line - II	162.43	
		-	-	500MVA, 400/220kV ICT at Jigmeling (HV)	398.91	
		-	-	400kV Jigmeling - Alipurduar Line - I	425.46	
		-	-	400kV Jigmeling - Alipurduar Line - II	424.73	
		-	-	80MVA, 220/132kV ICT - I (HV)	-29.51	
		-	-	80MVA, 220/132kV ICT - II (HV)	-29.19	
		-	-	132kV MHP - Yurmo Line - II	64.59	
				132kV MHP - Tintibi Line	101.53	
		-	-	132kV Gelephu - Salakati Line	4.96	
		Total	782.54	Auxiliary Consumption & Transformation Losses at Generator end	0.55%	
3	6 x 170MW PHP-II	Unit- I	179.58	400kV PHP II - Jigmeling -I	256.20	All Units in service. 400kV PHP II - Alipurduar- I not in Service.
		Unit- II	177.61	400kV PHP II - Jigmeling -II	257.90	
		Unit- III	181.95	400kV PHP II - Alipurduar -I	0.00	
		Unit- IV	177.84	400kV PHP II - Alipurduar -II	566.57	
		Unit- V	182.31	-	-	
		Unit- VI	182.74	-	-	
		Total	1,082.03	Auxiliary Consumption & Transformation Losses at Generator end	0.13%	
4	4 x 84MW CHP	Unit- I	0.00	220kV CHP - Birpara Line - I	0.00	At 6:48 hrs(05.10.2025) CHP took total plant shutdown due to intake choking. 220kV CHP-Birpara Line I & II both tripped at 4:12hrs & 06:09hrs respectively. (Following Lines are currently undergoing patrolling and inspection.)
		Unit- II	0.00	220kV CHP - Birpara Line - II	0.00	
		Unit- III	0.00	220kV CHP - Gedu	153.79	
		Unit- IV	0.00	220kV CHP - Jamjee - I	37.53	
		-	-	220kV CHP - Jamjee - II	36.55	
		-	-	220kV CHP - Jamjee - III	35.04	
		-	-	220kV Malbase - Birpara Line	-68.80	
		-	-	66kV CHP - Gedu Line	10.53	
		Total	0.00	Auxiliary Consumption & Transformation Losses at Generator end	0.00%	
5	2 x 12MW BHP (U/S)	Unit- I	5.36	220kV BHP - Semtokha Line	150.19	All Units and Feeders in service.
		Unit- II	6.50	66kV BHP - Lobeysa Line	20.93	
		Total	11.86	220kV BHP - Tsirang Line	-122.46	
6	2 x 20MW BHP (L/S)	Unit- I	19.30	5MVA, 66/11kV TFR	0.28	
		Unit- II	18.20	30MVA ICT, 220/66kV (HV)	10.67	
		Total	37.50	Auxiliary Consumption & Transformation Losses at Generator end	0.85%	
7	2 x 63MW DHP	Unit-I	0.00	220kV DHP - Tsirang Line	0.00	DHP took total plant shutdown due to intake choking @ 07:55 hrs. 220kV DHP - Dagapela line on Standby due to protection setting. 220kV DHP-Tsirang Line in closed state
		Unit-II	0.00	220kV DHP - Dagapela Line	0.00	
		-	-	220kV BitDeer - Dagapela Line	46.81	
		-	-	5MVA, 220/33kV TFR	0.20	
		Total	0.00	Auxiliary Consumption & Transformation Losses at Generator end	0.00%	
8	4 x 15MW KHP	Unit- I	16.28	132kV KHP - Nangkhor Line	40.61	All Units and Feeders in service.
		Unit-II	16.47	132kV KHP - Kilikhar Line	24.48	
		Unit- III	16.55	5MVA, 132/11kV TFR	0.25	
		Unit- IV	16.56	132kV Motanga - Rangia Line	49.84	
		Total	65.86	Auxiliary Consumption & Transformation Losses at Generator end	0.79%	
9	2 x 59MW NHP	Unit-I	64.94	132kV NHP-MHP-I	64.41	All Units and Feeders in service.
		Unit-II	64.93	132kV NHP-MHP-II	64.48	
		Total	129.87	Auxiliary Consumption & Transformation Losses at Generator end	0.75%	
10	2 x 9MW SHP	Unit- I	0.00	66kV SHP-Damdhum (Samtse)	0.00	SHP both Units tripped at 03:57:02hrs (05.10.2025). The cause of tripping and expected return time remains undetermined due to the unavailability of contact with the site official.
		Unit- II	0.00	-	-	
		Total	0.00	Auxiliary Consumption & Transformation Losses at Generator end	0.00%	
11	17.38 MWp Sephu (Solar)	Inverter-1	0.01	33kV SSP-Wangdue	0.03	All Units and Feeders in service.
		Inverter-2	0.02	33kV SSP-Trongsa	0.03	
		Inverter-3	0.01	-	-	
		Inverter-4	0.02	-	-	
		Total	0.06	Auxiliary Consumption & Transformation Losses at Generator end	0.00%	

Note: Generation-Load Summary (MW) for 05-Oct-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)	3,233.90	925.41	2,308.49

Note: Generation-Load Summary (MW) for 05-Oct-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)	2,654.01	891.36	1,762.65



THE DAILY BHUTAN POWER SYSTEM OPERATOR LOAD-GENERATION BALANCE REPORT & ENERGY FIGURES ISSUED ON 06-Oct-2025(-ve:import, +ve:export)

Report Details	Date	Time	National Coincidental Peak Load (MW)	Date	Time	Load
	October 5, 2025	19:00:00		29-Sep-25	18:55:08	1228.51

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	THP took total plant emergency shutdown from 14:55hrs due to intake choking at DAM. 400KV THP-Siliguri Line -I & IV was handtripped at 15:35hrs & 15:36hrs respectively under emergency condition.
		Unit- II	0.00	400kV THP - Siliguri Line - II	-109.85	
		Unit- III	0.00	400kV THP - Siliguri Line - IV	0.00	
		Unit- IV	0.00	400kV THP - Malbase Line - III	109.21	
		Unit- V	0.00	400kV Malbase - Siliguri Line	-148.00	
		Unit- VI	0.00	-	-	
		Total	0.00	Auxiliary Consumption & Transformation Losses at Generator end	0.00%	
2	4 x 180MW MHP	Unit-I	198.46	400kV MHP - Jigmeling Line - I	246.45	400kV MHP-JIG Line IV kept on Standby as other three lines can cater the load. Unit III not able to generate at full capacity due to choking of it's cooling water system.
		Unit-II	198.46	400kV MHP - Jigmeling Line - II	247.09	
		Unit-III	150.13	400kV MHP - Jigmeling Line - III	240.56	
		Unit-IV	196.32	400kV MHP - Jigmeling Line - IV	0.00	
		-	-	220kV Jigmeling - BitDeer Line - I	122.65	
		-	-	220kV Jigmeling - BitDeer Line - II	110.35	
		-	-	500MVA, 400/220kV ICT at Jigmeling (HV)	246.16	
		-	-	400kV Jigmeling - Alipurduar Line - I	226.91	
		-	-	400kV Jigmeling - Alipurduar Line - II	224.73	
		-	-	80MVA, 220/132kV ICT - I (HV)	2.74	
		-	-	80MVA, 220/132kV ICT - II (HV)	2.64	
		-	-	132kV MHP - Yurmo Line - II	58.73	
				132kV MHP - Tintibi Line	75.08	
		-	-	132kV Gelephu - Salakati Line	18.00	
		Total	743.37	Auxiliary Consumption & Transformation Losses at Generator end	0.59%	
3	6 x 170MW PHP-II	Unit- I	0.00	400kV PHP II - Jigmeling -I	0.00	PHP II took total plant emergency shutdown from 10:15hrs (05.10.2025)n due to choking of RAW cooling water strainer & sedimentation test value high at Dam. 400kV PHP II-Jigmeling -I & II tripped along with 400kV PHP II- Alipurduar- II tripped during total plant shutdown on over voltage. 400kV PHP II - Alipurduar- I not in Service.
		Unit- II	0.00	400kV PHP II - Jigmeling -II	0.00	
		Unit- III	0.00	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	0.00	Auxiliary Consumption & Transformation Losses at Generator end	0.00%	
4	4 x 84MW CHP	Unit- I	0.00	220kV CHP - Birpara Line - I	0.00	At 6:48 hrs(05.10.2025) CHP took total plant shutdown due to intake choking. 220kV CHP-Birpara Line I & II both tripped at 4:12hrs & 06:09hrs respectively. (Following Lines are currently undergoing patrolling and inspection.)
		Unit- II	0.00	220kV CHP - Birpara Line - II	0.00	
		Unit- III	0.00	220kV CHP - Gedu	153.79	
		Unit- IV	0.00	220kV CHP - Jamjee - I	14.77	
		-	-	220kV CHP - Jamjee - II	14.81	
		-	-	220kV CHP - Jamjee - III	14.61	
		-	-	220kV Malbase - Birpara Line	-121.00	
		-	-	66kV CHP - Gedu Line	10.53	
		Total	0.00	Auxiliary Consumption & Transformation Losses at Generator end	0.00%	
5	2 x 12MW BHP (U/S)	Unit- I	12.10	220kV BHP - Semtokha Line	149.60	All Units and Feeders in service.
		Unit- II	12.10	66kV BHP - Lobeysa Line	24.76	
		Total	24.20	220kV BHP - Tsirang Line	-109.55	
6	2 x 20MW BHP (L/S)	Unit- I	21.00	5MVA, 66/11kV TFR	0.52	
		Unit- II	21.00	30MVA ICT, 220/66kV (HV)	1.65	
		Total	42.00	Auxiliary Consumption & Transformation Losses at Generator end	1.31%	
7	2 x 63MW DHP	Unit-I	0.00	220kV DHP - Tsirang Line	0.00	DHP took total plant shutdown due to intake choking @ 07:55 hrs. 220kV DHP - Dagapela line on Standby due to protection setting. 220kV DHP-Tsirang Line in closed state
		Unit-II	0.00	220kV DHP - Dagapela Line	0.00	
		-	-	220kV BitDeer - Dagapela Line	43.52	
		-	-	5MVA, 220/33kV TFR		
		Total	0.00	Auxiliary Consumption & Transformation Losses at Generator end	0.00%	
8	4 x 15MW KHP	Unit- I	13.59	132kV KHP - Nangkhor Line	33.85	All Units and Feeders in service.
		Unit-II	13.94	132kV KHP - Kilikhar Line	23.87	
		Unit- III	15.51	5MVA, 132/11kV TFR	0.39	
		Unit- IV	15.57	132kV Motanga - Rangia Line	39.82	
		Total	58.61	Auxiliary Consumption & Transformation Losses at Generator end	0.85%	
9	2 x 59MW NHP	Unit-I	64.91	132kV NHP-MHP-I	64.52	All Units and Feeders in service.
		Unit-II	64.92	132kV NHP-MHP-II	64.44	
		Total	129.83	Auxiliary Consumption & Transformation Losses at Generator end	0.67%	
10	2 x 9MW SHP	Unit- I	0.00	66kV SHP-Damdhum (Samtse)	0.00	SHP both Units tripped at 03:57:02hrs (05.10.2025). The cause of tripping and expected return time remains undetermined due to the unavailability of contact with the site official.
		Unit- II	0.00	-	-	
		Total	0.00	Auxiliary Consumption & Transformation Losses at Generator end	0.00%	

Note: Generation-Load Summary (MW) for 05-Oct-2025 at 19:00 hrs

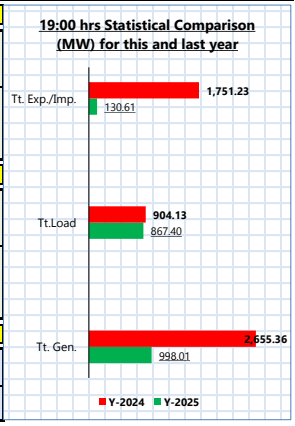
Sl. No.	Region	Total Generation	Total Domestic Load (Total Generation - Total Export)	Total Export(+ve)/ Import(-ve)
1	Both Eastern & Western (Whole Bhutan)	998.01	867.40	130.61

Note: Generation-Load Summary (MW) for 05-Oct-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)	2,655.36	904.13	1,751.23

Note: Daily Energy (MUs) and Power(MW) Statistics for 05-Oct-2025

Sl. No.	Total Energy Generation	Daily Energy Met	Net Energy Import (IEX and Solar)	Net Energy Export	Peak Cross-border (MW)
1	50.64	22.29	0.00	28.63	2,687.12



1. The Instantaneous load balance does not tend towards zero. This could be due to the following reasons:

   i) Not all the meters are digital and nor 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.