ལྗོངས་གསས་དང་རང་བཞིན་སྐྱེས་འཚོ་ཁག་ དཔལ་ཡོན་ཁག་གཞུང་།

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 04-May-2026(-ve:import, +ve:export)

Report Details	Date	Time	National Coincidental Peak Load (MW)	Date	Time	Load
	May 3, 2026	9:00 AM		08-Nov-25	19:03:00	1,477.00

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-IV on Standby. 400kV THP-Norbugang-Siliguri Line & 400kV THP-Siliguri Line I under Shutdown.
		Unit- II	120.91	400kV THP - Siliguri Line - II	68.22	
		Unit- III	108.06	400kV THP - Norbugang - IV	0.00	
		Unit- IV	0.00	400kV THP - Malbase Line - III	381.84	
		Unit- V	125.17	400kV Malbase - Siliguri Line	-6.23	
		Unit- VI	100.22	400kV Norbugang-Siliguri Line	0.00	
		Total	454.36	**Auxiliary Consumption & Transformation Losses at Generator end**	0.95%	
2	4 x 180MW MHP	Unit-I	80.83	400kV MHP - Jigmeling Line - I	0.00	Unit-II under AMP. 400kV MHP-JLG Line - I & III on Standby.
		Unit-II	0.00	400kV MHP - Jigmeling Line - II	159.97	
		Unit-III	80.20	400kV MHP - Jigmeling Line - III	0.00	
		Unit-IV	160.26	400kV MHP - Jigmeling Line - IV	161.01	
		-	-	220kV Jigmeling - BitDeer Line - I	179.35	
		-	-	220kV Jigmeling - BitDeer Line - II	174.39	
		-	-	500MVA, 400/220kV ICT at Jigmeling (HV)	418.55	
		-	-	400kV Jigmeling - Alipurduar Line - I	38.55	
		-	-	400kV Jigmeling - Alipurduar Line - II	37.82	
		-	-	80MVA, 220/132kV ICT - I (HV)	33.00	
		-	-	80MVA, 220/132kV ICT - II (HV)	32.71	
		-	-	132kV MHP - Yurmo Line - II	19.74	
				132kV MHP - Tintibi Line	19.70	
		-	-	132kV Gelephu - Salakati Line	-44.67	
		Total	321.29	**Auxiliary Consumption & Transformation Losses at Generator end**	0.19%	
3	6 x 170MW PHP-II	Unit- I	175.30	400kV PHP II - Jigmeling -I	91.01	Unit V & VI under AMP. Unit-III & IV on Standby.
		Unit- II	175.50	400kV PHP II - Jigmeling -II	90.70	
		Unit- III	0.00	400kV PHP II - Alipurduar -I	84.44	
		Unit- IV	0.00	400kV PHP II - Alipurduar -II	84.30	
		Unit- V	0.00	-	-	
		Unit- VI	0.00	-	-	
		Total	350.80	**Auxiliary Consumption & Transformation Losses at Generator end**	0.10%	
4	4 x 84MW CHP	Unit- I	91.44	220kV CHP - Birpara Line - I	-65.56	Unit-II & III under Shutdown (Annual Maintenance).
		Unit- II	0.00	220kV CHP - Birpara Line - II	-64.57	
		Unit- III	0.00	220kV CHP - Gedu	30.13	
		Unit- IV	91.63	220kV CHP - Jamjee - I	92.95	
		-	-	220kV CHP - Jamjee - II	90.10	
		-	-	220kV CHP - Jamjee - III	90.30	
		-	-	220kV Malbase - Birpara Line	-85.39	
		-	-	66kV CHP - Gedu Line	7.96	
		Total	183.07	**Auxiliary Consumption & Transformation Losses at Generator end**	0.96%	
5	2 x 12MW BHP (U/S)	Unit- I	7.80	220kV BHP - Semtokha Line	56.03	
		Unit- II	5.22	66kV BHP - Lobeysa Line	22.81	
		Total	13.02	220kV BHP - Tsirang Line	-48.71	
6	2 x 20MW BHP (L/S)	Unit- I	8.68	5MVA, 66/11kV TFR	0.48	
		Unit- II	8.80	30MVA ICT, 220/66kV (HV)	10.25	
		Total	17.48	**Auxiliary Consumption & Transformation Losses at Generator end**	-0.36%	
7	2 x 63MW DHP	Unit-I	0.00	220kV DHP - Tsirang Line	0.03	Total Plant Shutdown from 10:27 hrs (09.10.2025) due to Seepage in HRC . 220kV DHP-Dagapela under shutdown
		Unit-II	0.00	220kV DHP - Dagapela Line	0.00	
		-	-	220kV BitDeer - Dagapela Line	43.05	
		-	-	5MVA, 220/33kV TFR	0.03	
		Total	0.00	**Auxiliary Consumption & Transformation Losses at Generator end**	0.00%	
8	4 x 15MW KHP	Unit- I	12.63	132kV KHP - Nangkhor Line	41.71	
		Unit-II	12.56	132kV KHP - Kilikhar Line	8.10	
		Unit- III	12.61	5MVA, 132/11kV TFR	0.24	
		Unit- IV	12.62	132kV Motanga - Rangia Line	5.06	
		Total	50.42	**Auxiliary Consumption & Transformation Losses at Generator end**	0.73%	
9	2 x 59MW NHP	Unit-I	40.01	132kV NHP-MHP-I	39.73	Unit-II & 132kV NHP-MHP line II on standby
		Unit-II	0.00	132kV NHP-MHP-II	0.00	
		Total	40.01	**Auxiliary Consumption & Transformation Losses at Generator end**	0.70%	
10	2 x 9MW SHP	Unit- I	5.00	66kV SHP-Damdhum (Samtse)	0.00	Interim measure: Evacuation is through 33kV System.
		Unit- II	5.00	-	-	
		Total	10.00	**Auxiliary Consumption & Transformation Losses at Generator end**	100.00%	
11	17.38 MWp Sephu (Solar)	Inverter-1	0.33	33kV SSP-Wangdue	2.95	All Inverters & Feeders are in Service
		Inverter-2	1.33	33kV SSP-Trongsa	2.90	
		Inverter-3	1.31	-	-	
		Inverter-4	1.55	-	-	
		Inverter-5	1.36	-	-	
		Total	5.87	**Auxiliary Consumption & Transformation Losses at Generator end**	0.31%	
12	2 x 16 MW YHP (Yungichhu)	Unit- I	0.00	132kV YHP-Kilikhar	14.95	Test charge not yet done for Unit-I.
		Unit- II	15.78	5MVA, 132/33kV TFR	0.73	
		Total	15.78	**Auxiliary Consumption & Transformation Losses at Generator end**	0.63%	

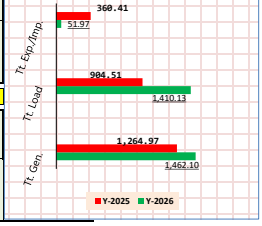
Note: Generation-Load Summary (MW) for 03-May-26 at 09:00 hrs

Sl. No.	Region	Total Generation	Total Domestic Load (Total Generation - Total Export)	Total Export(+ve)/ Import(-ve)
1	Both Eastern & Western (Whole Bhutan)	1,462.10	1,410.13	51.97

Note: Generation-Load Summary (MW) for 03-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)	1,264.97	904.51	360.41

09:00 hrs Statistical Comparison (MW) for this and last year



THE DAILY BHUTAN POWER SYSTEM OPERATOR LOAD-GENERATION BALANCE REPORT & ENERGY FIGURES ISSUED ON 04-May-2026(-ve:import, +ve:export)

Report Details	Date	Time	National Coincidental Peak Load (MW)	Date	Time	Load
	May 3, 2026	19:00:00		08-Nov-25	19:03:00	1,477.00

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	55.42	Unit-I under Shutdown. Unit IV on standby 400kV THP-Norbugang-Siliguri Line under Shutdown.
		Unit- II	120.92	400kV THP - Siliguri Line - II	54.07	
		Unit- III	108.60	400kV THP - Norbugang Line - IV	0.00	
		Unit- IV	0.00	400kV THP - Malbase Line - III	361.47	
		Unit- V	135.16	400kV Malbase - Siliguri Line	-13.25	
		Unit- VI	110.23	400kV Norbugang-Siliguri Line	0.00	
		Total	**474.91**	**Auxiliary Consumption & Transformation Losses at Generator end**	0.83%	
2	4 x 180MW MHP	Unit-I	60.85	400kV MHP - Jigmeling Line - I	0.00	Unit II under AMP. 400kV MHP-JLG Line - I & III on Standby.
		Unit-II	0.00	400kV MHP - Jigmeling Line - II	145.07	
		Unit-III	70.47	400kV MHP - Jigmeling Line - III	0.00	
		Unit-IV	160.08	400kV MHP - Jigmeling Line - IV	145.91	
		-	-	220kV Jigmeling - BitDeer Line - I	169.56	
		-	-	220kV Jigmeling - BitDeer Line - II	166.36	
		-	-	500MVA, 400/220kV ICT at Jigmeling (HV)	415.27	
		-	-	400kV Jigmeling - Alipurduar Line - I	24.73	
		-	-	400kV Jigmeling - Alipurduar Line - II	23.27	
		-	-	80MVA, 220/132kV ICT - I (HV)	41.78	
		-	-	80MVA, 220/132kV ICT - II (HV)	41.25	
		-	-	132kV MHP - Yurmo Line - II	19.88	
				132kV MHP - Tintibi Line	20.00	
		-	-	132kV Gelephu - Salakati Line	-56.48	
		Total	**291.40**	**Auxiliary Consumption & Transformation Losses at Generator end**	0.09%	
3	6 x 170MW PHP-II	Unit- I	151.00	400kV PHP II - Jigmeling -I	89.80	Unit-III & IV on Standby. Unit -V & VI under AMP.
		Unit- II	169.69	400kV PHP II - Jigmeling -II	89.22	
		Unit- III	0.00	400kV PHP II - Alipurduar -I	70.43	
		Unit- IV	0.00	400kV PHP II - Alipurduar -II	70.37	
		Unit- V	0.00	-	-	
		Unit- VI	0.00	-	-	
		Total	**320.69**	**Auxiliary Consumption & Transformation Losses at Generator end**	0.27%	
4	4 x 84MW CHP	Unit- I	91.46	220kV CHP - Birpara Line - I	-54.39	Unit-II & III under Shutdown (Annual Maintenance).
		Unit- II	0.00	220kV CHP - Birpara Line - II	-54.16	
		Unit- III	0.00	220kV CHP - Gedu	32.84	
		Unit- IV	91.57	220kV CHP - Jamjee - I	84.79	
		-	-	220kV CHP - Jamjee - II	83.20	
		-	-	220kV CHP - Jamjee - III	82.10	
		-	-	220kV Malbase - Birpara Line	-71.23	
		-	-	66kV CHP - Gedu Line	7.51	
		Total	**183.03**	**Auxiliary Consumption & Transformation Losses at Generator end**	0.62%	
5	2 x 12MW BHP (U/S)	Unit- I	8.70	220kV BHP - Semtokha Line	70.00	
		Unit- II	6.43	66kV BHP - Lobeysa Line	28.97	
		Total	**15.13**	220kV BHP - Tsirang Line	-49.50	
6	2 x 20MW BHP (L/S)	Unit- I	17.25	5MVA, 66/11kV TFR	0.72	
		Unit- II	17.16	30MVA ICT, 220/66kV (HV)	12.10	
		Total	**34.41**	**Auxiliary Consumption & Transformation Losses at Generator end**	-1.31%	
7	2 x 63MW DHP	Unit-I	0.00	220kV DHP - Tsirang Line	0.30	Total Plant Shutdown from 10:27 hrs (09.10.2025) due to Seepage in HRC . 220kV DHP-Dagapela line under shutdown.
		Unit-II	0.00	220kV DHP - Dagapela Line	0.00	
		-	-	220kV BitDeer - Dagapela Line	43.67	
		-	-	5MVA, 220/33kV TFR	0.30	
		Total	**0.00**	**Auxiliary Consumption & Transformation Losses at Generator end**	0.00%	
8	4 x 15MW KHP	Unit- I	0.00	132kV KHP - Nangkhor Line	30.86	Unit I on standby.
		Unit-II	13.42	132kV KHP - Kilikhar Line	8.73	
		Unit- III	13.46	5MVA, 132/11kV TFR	0.40	
		Unit- IV	13.45	132kV Motanga - Rangia Line	-2.50	
		Total	**40.33**	**Auxiliary Consumption & Transformation Losses at Generator end**	0.84%	
9	2 x 59MW NHP	Unit-I	40.00	132kV NHP-MHP-I	39.72	Unit-II on Standby. 132kV NHP-MHP line-II on Standby.
		Unit-II	0.00	132kV NHP-MHP-II	0.00	
		Total	**40.00**	**Auxiliary Consumption & Transformation Losses at Generator end**	0.70%	
10	2 x 9MW SHP	Unit- I	5.00	66kV SHP-Damdhum (Samtse)	0.00	Interim measure: Evacuation is through 33kV System.
		Unit- II	5.00	-	-	
		Total	**10.00**	**Auxiliary Consumption & Transformation Losses at Generator end**	100.00%	
11	2 x 16 MW YHP	Unit-I	0.00	132kV YHP-Kilikhar	15.12	Test charge not yet done for Unit-I.
		Unit-II	15.99	5MVA, 132/33kV TFR	0.03	
		Total	**15.99**	**Auxiliary Consumption & Transformation Losses at Generator end**	5.25%	

Note: Generation-Load Summary (MW) for 03-May-2026 at 18:00 hrs

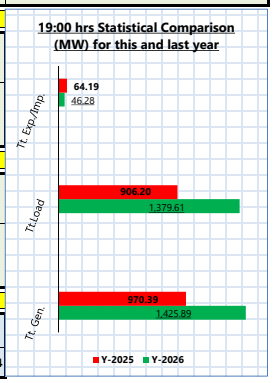
Sl. No.	Region	Total Generation	Total Domestic Load (Total Generation - Total Export)	Total Export(+ve)/ Import(-ve)
1	Both Eastern & Western (Whole Bhutan)	1,425.89	1,379.61	46.28

Note: Generation-Load Summary (MW) for 03-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)	970.39	906.20	64.19

Note: Daily Energy (MUs) and Power(MW) Statistics for 03-May-2026

Sl. No.	Total Energy Generation	Daily Energy Met	Net Energy Import (IEX and Solar)	Net Energy Export	Peak Cross-border (MW)
1	35.36	33.61	0.00	1.75	193.04



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.