



ལྷན་ཁྲིམས་དང་འབྲེལ་ཆེན་གྱི་ཉན་ཁལ། རྒྱལ་ཁབ་ནུ་བྱུག་ཁྲིམས་ཁྲུང་།
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 17-May-2025(-ve:import, +ve:export)						
Report Details		Date	Time	National Coincidental Peak Load (MW)		Load
		May 16, 2025	9:00 AM			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	00kV THP-Siliguri Line -I under Emergency Shutdown. Unit-I under shutdown
		Unit- II	100.53	400kV THP - Siliguri Line - II	119.38	
		Unit- III	118.84	400kV THP - Siliguri Line- IV	111.60	
		Unit- IV	104.92	400kV THP - Malbase Line - III	299.41	
		Unit- V	101.14	400kV Malbase - Siliguri Line	70.86	
		Unit- VI	104.54	-	-	
		Total	529.97	Auxiliary Consumption & Transformation Losses at Generator end	-0.08%	
2	4 x 180MW MHP	Unit-I	197.82	400kV MHP - Jigmeling Line - I	0.00	Unit-II under Shutdown. 400kV MHP-JLG line-I & II on Standby. 132kV MHP_Yumoo Line- I not in Service.
		Unit-II	0.00	400kV MHP - Jigmeling Line - II	0.00	
		Unit-III	195.99	400kV MHP - Jigmeling Line - III	296.06	
		Unit-IV	197.72	400kV MHP - Jigmeling Line - IV	295.11	
		-	-	132kV MHP - Yurno Line - I	0.00	
		-	-	132kV MHP - Yurno Line - II	64.38	
		-	-	500MVA, 400/220kV ICT at Jigmeling (HV)	234.18	
		-	-	400kV Jigmeling - Alipurduar Line - I <i>direct lines</i>	448.00	
		-	-	400kV Jigmeling - Alipurduar Line - II	447.27	
		-	-	80MVA, 220/132kV ICT - I (HV)	-35.10	
		-	-	80MVA, 220/132kV ICT - II (HV)	-34.80	
		-	-	220kV Tsirang - Jigmeling Line	-118.15	
		-	-	132kV Gelephu - Salakati Line	15.96	
		Total	591.53	Auxiliary Consumption & Transformation Losses at Generator end	-0.07%	
		Unit- I	180.00	400kV PHP II - Jigmeling -I	277.10	
3	6 x 170MW PHP-II	Unit- II	187.00	400kV PHP II - Jigmeling -II	276.80	<i>erstwhile interim lines</i>
		Unit- III	187.00	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	554.00	Auxiliary Consumption & Transformation Losses at Generator end	0.02%	
4	4 x 84MW CHP	Unit- I	85.69	220kV CHP - Birpara Line - I	-10.58	Unit-IV under Shutdown.
		Unit- II	85.35	220kV CHP - Birpara Line - II	-10.57	
		Unit- III	89.93	220kV CHP - Gedu	88.77	
		Unit- IV	0.00	220kV CHP - Jamjee (old) - I	61.58	
		-	-	220kV CHP - Jamjee - II (new)	61.31	
		-	-	220kV CHP - Jamjee - III (new)	59.06	
		-	-	220kV Malbase - Birpara Line	-42.49	
		-	-	66kV CHP - Gedu Line	9.94	
		-	-	3x3MVA, 66/11kV TFR	1.43	
		Total	260.97	Auxiliary Consumption & Transformation Losses at Generator end	0.01%	
5	2 x 12MW BHP (U/S)	Unit- I	3.02	220kV BHP - Semtokha Line	132.13	
		Unit- II	3.44	66kV BHP - Lobeysa Line	24.13	
		Total	6.46	220kV BHP - Tsirang Line	-138.16	
6	2 x 20MW BHP (L/S)	Unit- I	6.22	5MVA, 66/11kV TFR	0.36	
		Unit- II	5.98	30MVA ICT, 220/66kV (HV)	18.36	
		Total	12.20	Auxiliary Consumption & Transformation Losses at Generator end	1.07%	
7	2 x 63MW DHP	Unit-I	0.00	220kV DHP - Tsirang Line	0.00	DHP- Tsirang line kept on idle charge. Unit-I on standby.
		Unit-II	29.00	220kV DHP - Dagapela Line	28.75	
		-	-	220kV Jigmeling - Dagapela Line	51.56	
		-	-	5MVA, 220/33kV TFR	0.20	
		Total	29.00	Auxiliary Consumption & Transformation Losses at Generator end	0.17%	
8	4 x 15MW KHP	Unit- I	16.50	132kV KHP - Nangkhor Line	43.01	
		Unit-II	16.49	132kV KHP - Kilikhar Line	22.20	
		Unit- III	16.49	5MVA, 132/11kV TFR	0.25	
		Unit- IV	16.48	132kV Motanga - Rangia Line	27.17	
		Total	65.96	Auxiliary Consumption & Transformation Losses at Generator end	0.76%	
9	2 x 59MW NHP	Unit-I	0.00	132kV NHP-MHP-I	63.59	Unit-I under Shutdown. 132kV NHP-MHP line-II on Standby.
		Unit-II	63.92	132kV NHP-MHP-II	0.00	
		Total	63.92	Auxiliary Consumption & Transformation Losses at Generator end	0.52%	
10	2 x 9MW SHP	Unit- I	7.50	66kV SHP-Damdhum (Samtse)	0.00	Unit-II under Shutdown. Interim measure: evacuation is through 33kV system.
		Unit- II	0.00	-	-	
		Total	7.50	Auxiliary Consumption & Transformation Losses at Generator end	100.00%	

Note: Generation-Load Summary (MW) for 16-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)	2,121.51	944.91	1,176.60

Note: Generation-Load Summary (MW) for 16-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)	590.20	845.34	-255.14

THE DAILY BHUTAN POWER SYSTEM OPERATOR LOAD-GENERATION BALANCE REPORT & ENERGY FIGURES ISSUED ON 17-May-2025(-ve:import, +ve:export)						
Report	Date	Time	National Coincidental Peak Load (MW)		Date	Time
Details	May 16, 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	400kV THP-Siliguri Line-I under Emergency Shutdown. Unit-I under shutdown
		Unit- II	108.07	400kV THP - Siliguri Line - II	156.26	
		Unit- III	138.70	400kV THP - Siliguri Line - IV	147.18	
		Unit- IV	139.54	400kV THP - Malbase Line - III	362.78	
		Unit- V	138.49	400kV Malbase - Siliguri Line	98.26	
		Unit- VI	138.98	-	-	
		Total	663.78	Auxiliary Consumption & Transformation Losses at Generator end	-0.37%	
2	4 x 180MW MHP	Unit-I	197.87	400kV MHP - Jigmeling Line - I	0.00	Unit-II under Shutdown. 400kV MHP-JLG line-I &II on Standby. 132kV MHP_Yurmoo Line-I not in Service.
		Unit-II	0.00	400kV MHP - Jigmeling Line - II	0.00	
		Unit-III	195.25	400kV MHP - Jigmeling Line - III	290.20	
		Unit-IV	197.25	400kV MHP - Jigmeling Line - IV	289.63	
		-	-	132kV MHP - Yurmo Line - I	0.00	
		-	-	132kV MHP - Yurmo Line - II	62.70	
		-	-	500MVA, 400/220kV ICT at Jigmeling (HV)	254.91	
		-	-	400kV Jigmeling - Alipurduar Line - I ; direct lines	433.46	
		-	-	400kV Jigmeling - Alipurduar Line - II ;	432.00	
		-	-	80MVA, 220/132kV ICT - I (HV)	-39.93	
		-	-	80MVA, 220/132kV ICT - II (HV)	-39.56	
		-	-	220kV Tsirang - Jigmeling Line	-118.15	
		-	-	132kV Gelephu - Salakati Line	10.13	
		Total	590.37	Auxiliary Consumption & Transformation Losses at Generator end	0.43%	
3	6 x 170MW PHP-II	Unit- I	185.30	400kV PHP II - Jigmeling -I	274.18	erstwhile interim lines
		Unit- II	183.20	400kV PHP II - Jigmeling -II	274.24	
		Unit- III	185.30	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	553.80	Auxiliary Consumption & Transformation Losses at Generator end	0.97%	
4	4 x 84MW CHP	Unit- I	91.38	220kV CHP - Birpara Line - I	0.44	IV under Shutdown.
		Unit- II	91.22	220kV CHP - Birpara Line - II	0.56	
		Unit- III	91.56	220kV CHP - Gedu	74.30	
		Unit- IV	0.00	220kV CHP - Jamjee - I	92.89	
		-	-	220kV CHP - Jamjee - II	94.67	
		-	-	220kV CHP - Jamjee - III	0.00	
		-	-	220kV Malbase - Birpara Line	-14.00	
		-	-	66kV CHP - Gedu Line	9.57	
		-	-	3x3MVA, 66/11kV TFR	1.44	
		Total	274.16	Auxiliary Consumption & Transformation Losses at Generator end	0.11%	
5	2 x 12MW BHP (U/S)	Unit- I	3.30	220kV BHP - Semtokha Line	142.10	
		Unit- II	3.29	66kV BHP - Lobeysa Line	26.12	
		Total	6.59	220kV BHP - Tsirang Line	-149.98	
6	2 x 20MW BHP (L/S)	Unit- I	6.21	5MVA, 66/11kV TFR	0.55	
		Unit- II	6.00	30MVA ICT, 220/66kV (HV)	20.73	
		Total	12.21	Auxiliary Consumption & Transformation Losses at Generator end	0.05%	
7	2 x 63MW DHP	Unit-I	31.75	220kV DHP - Tsirang Line	0.00	Unit-I on Standby. 220kV DHP-TSI line kept on idle charge.
		Unit-II	0.00	220kV DHP - Dagapela Line	31.20	
		-	-	220kV Jigmeling - Dagapela Line	16.90	
		-	-	5MVA, 220/33kV TFR	0.18	
		Total	31.75	Auxiliary Consumption & Transformation Losses at Generator end	1.17%	
8	4 x 15MW KHP	Unit- I	16.49	132kV KHP - Nangkhor Line	40.34	
		Unit-II	16.53	132kV KHP - Kilikhar Line	24.78	
		Unit- III	16.37	5MVA, 132/11kV TFR	0.34	
		Unit- IV	16.60	132kV Motanga - Rangia Line	35.41	
		Total	65.99	Auxiliary Consumption & Transformation Losses at Generator end	0.80%	
9	2 x 59MW NHP	Unit-I	0.00	132kV NHP-MHP-I	54.68	Unit-I under Shutdown. 132kV NHP-MHP line-II on Standby.
		Unit-II	54.97	132kV NHP-MHP-II	0.00	
		Total	54.97	Auxiliary Consumption & Transformation Losses at Generator end	0.53%	
10	2 x 9MW SHP	Unit- I	6.10	66kV SHP-Damdhum (Samtse)	0.00	Interim measure: evacuation is through 33kV system.
		Unit- II	6.09	-	-	
		Total	12.19	Auxiliary Consumption & Transformation Losses at Generator end	100.00%	

Note: Generation-Load Summary (MW) for 16-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)	2,265.81	966.11	1,299.70

Note: Generation-Load Summary (MW) for 16-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)	913.36	871.04	42.32

Note: Daily Energy (MUs) and Power(MW) Statistics for 16-May-2025

Sl. No.	Total Energy Generation	Daily Energy Met	Net Energy Import (IEX and Solar)	Net Energy Export	Peak Cross-border (MW)
1	51.29	21.72	0.00	29.20	1,390.72

- 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.