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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 20-May-2025(-ve:import, +ve:export)						
Report Details		Date	Time	National Coincidental Peak Load (MW)		
		May 19, 2025	9:00 AM			
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 & II under Shutdown. 400kV THP-Siliguri Line -I under Shutdown.
		Unit- II	0.00	400kV THP - Siliguri Line - II	69.02	
		Unit- III	80.47	400kV THP - Siliguri Line- IV	63.51	
		Unit- IV	109.45	400kV THP - Malbase Line - III	257.98	
		Unit- V	109.20	400kV Malbase - Siliguri Line	18.93	
		Unit- VI	91.31	-	-	
		Total	390.43	Auxiliary Consumption & Transformation Losses at Generator end	-0.02%	
2	4 x 180MW MHP	Unit-I	137.51	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	97.44	400kV MHP - Jigmeling Line - III	145.13	
		Unit-IV	70.04	400kV MHP - Jigmeling Line - IV	144.48	
		-	-	132kV MHP - Yurno Line - I	0.00	
		-	-	132kV MHP - Yurno Line - II	60.46	
		-	-	500MVA, 400/220kV ICT at Jigmeling (HV)	192.36	
		-	-	400kV Jigmeling - Alipurduar Line - I	274.91	
		-	-	400kV Jigmeling - Alipurduar Line - II	272.00	
		-	-	80MVA, 220/132kV ICT - I (HV)	-25.07	
		-	-	80MVA, 220/132kV ICT - II (HV)	-24.78	
		-	-	220kV Tsirang - Jigmeling Line	-118.15	
		-	-	132kV Gelephu - Salakati Line	-0.95	
		Total	304.99	Auxiliary Consumption & Transformation Losses at Generator end	-0.10%	
3	6 x 170MW PHP-II	Unit- I	0.00	400kV PHP II - Jigmeling -I	187.10	Unit-I under Shutdown.
		Unit- II	187.00	400kV PHP II - Jigmeling -II	186.80	
		Unit- III	186.00	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	373.00	Auxiliary Consumption & Transformation Losses at Generator end	-0.24%	
4	4 x 84MW CHP	Unit- I	59.73	220kV CHP - Birpara Line - I	-37.31	Unit-IV under Shutdown.
		Unit- II	59.61	220kV CHP - Birpara Line - II	-36.96	
		Unit- III	60.85	220kV CHP - Gedu	52.54	
		Unit- IV	0.00	220kV CHP - Jamjee (old) - I	65.83	
		-	-	220kV CHP - Jamjee - II (new)	65.53	
		-	-	220kV CHP - Jamjee - III (new)	63.26	
		-	-	220kV Malbase - Birpara Line	-59.40	
		-	-	66kV CHP - Gedu Line	6.27	
		-	-	3x3MVA, 66/11kV TFR	1.28	
		Total	180.19	Auxiliary Consumption & Transformation Losses at Generator end	-0.14%	
5	2 x 12MW BHP (U/S)	Unit- I	8.81	220kV BHP - Semtokha Line	120.05	U/S Unit II on Standby.
		Unit- II	0.00	66kV BHP - Lobeyza Line	25.05	
		Total	8.81	220kV BHP - Tsirang Line	-117.91	
6	2 x 20MW BHP (L/S)	Unit- I	9.35	5MVA, 66/11kV TFR	0.46	
		Unit- II	9.01	30MVA ICT, 220/66kV (HV)	17.07	
		Total	18.36	Auxiliary Consumption & Transformation Losses at Generator end	-1.77%	
7	2 x 63MW DHP	Unit-I	0.00	220kV DHP - Tsirang Line	0.00	Unit-I on Standby. 220kV DHP- Tsirang line kept on idle charge.
		Unit-II	28.99	220kV DHP - Dagapela Line	28.73	
		-	-	220kV Jigmeling - Dagapela Line	20.30	
		-	-	5MVA, 220/33kV TFR	0.24	
		Total	28.99	Auxiliary Consumption & Transformation Losses at Generator end	0.07%	
8	4 x 15MW KHP	Unit- I	16.55	132kV KHP - Nangkhor Line	0.00	132kV KHP - Nangkhor Line under Shutdown.
		Unit-II	16.53	132kV KHP - Kilikhar Line	65.54	
		Unit- III	16.55	5MVA, 132/11kV TFR	0.24	
		Unit- IV	16.57	132kV Motanga - Rangia Line	21.92	
		Total	66.20	Auxiliary Consumption & Transformation Losses at Generator end	0.63%	
9	2 x 59MW NHP	Unit-I	0.00	132kV NHP-MHP-I	44.77	Unit-I under Shutdown. 132kV NHP-MHP line-II on Standby.
		Unit-II	44.98	132kV NHP-MHP-II	0.00	
		Total	44.98	Auxiliary Consumption & Transformation Losses at Generator end	0.47%	
10	2 x 9MW SHP	Unit- I	4.84	66kV SHP-Damdhum (Samtse)	0.00	Interim measure: evacuation is through 33kV system.
		Unit- II	4.84	-	-	
		Total	9.68	Auxiliary Consumption & Transformation Losses at Generator end	100.00%	

Note: Generation-Load Summary (MW) for 19-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)	1,425.63	839.96	585.67

Note: Generation-Load Summary (MW) for 19-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)	761.86	780.02	-21.64

THE DAILY BHUTAN POWER SYSTEM OPERATOR LOAD-GENERATION BALANCE REPORT & ENERGY FIGURES ISSUED ON 20-May-2025(-ve:import, +ve:export)						
Report	Date	Time	National Coincidental Peak Load (MW)		Date	Time
Details	May 19, 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	Unit-I & II under Shutdown. 400kV THP-Siliguri Line -I under Emergency Shutdown.
		Unit- II	0.00	400kV THP - Siliguri Line - II	46.94	
		Unit- III	128.71	400kV THP - Siliguri Line - IV	42.29	
		Unit- IV	85.12	400kV THP - Malbase Line - III	261.55	
		Unit- V	44.54	400kV Malbase - Siliguri Line	2.19	
		Unit- VI	91.65	-	-	
		Total	350.02	Auxiliary Consumption & Transformation Losses at Generator end	-0.22%	
2	4 x 180MW MHP	Unit-I	149.82	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	80.14	400kV MHP - Jigmeling Line - III	142.19	
		Unit-IV	72.04	400kV MHP - Jigmeling Line - IV	141.40	
		-	-	132kV MHP - Yurmo Line - I	0.00	
		-	-	132kV MHP - Yurmo Line - II	62.69	
		-	-	500MVA, 400/220kV ICT at Jigmeling (HV)	214.50	
		-	-	400kV Jigmeling - Alipurduar Line - I	257.46	
		-	-	400kV Jigmeling - Alipurduar Line - II	256.00	
		-	-	80MVA, 220/132kV ICT - I (HV)	33.20	
		-	-	80MVA, 220/132kV ICT - II (HV)	32.90	
		-	-	220kV Tsirang - Jigmeling Line	130.70	
		-	-	132kV Gelephu - Salakati Line	-1.80	
		Total	302.00	Auxiliary Consumption & Transformation Losses at Generator end	0.24%	
3	6 x 170MW PHP-II	Unit- I	150.00	400kV PHP II - Jigmeling -I	225.91	erstwhile interim lines
		Unit- II	150.00	400kV PHP II - Jigmeling -II	225.10	
		Unit- III	150.00	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	450.00	Auxiliary Consumption & Transformation Losses at Generator end	-0.22%	
4	4 x 84MW CHP	Unit- I	56.73	220kV CHP - Birpara Line - I	-36.80	Unit- IV under Shutdown.
		Unit- II	56.58	220kV CHP - Birpara Line - II	-36.50	
		Unit- III	56.87	220kV CHP - Gedu	42.10	
		Unit- IV	0.00	220kV CHP - Jamjee - I	65.27	
		-	-	220kV CHP - Jamjee - II	65.06	
		-	-	220kV CHP - Jamjee - III	62.61	
		-	-	220kV Malbase - Birpara Line	-53.00	
		-	-	66kV CHP - Gedu Line	8.52	
		-	-	3x3MVA, 66/11kV TFR	1.21	
		Total	170.18	Auxiliary Consumption & Transformation Losses at Generator end	-0.76%	
5	2 x 12MW BHP (U/S)	Unit- I	8.10	220kV BHP - Semtokha Line	135.98	
		Unit- II	8.20	66kV BHP - Lobeysa Line	30.20	
		Total	16.30	220kV BHP - Tsirang Line	-118.03	
	2 x 20MW BHP (L/S)	Unit- I	16.21	5MVA, 66/11kV TFR	0.61	
		Unit- II	15.90	30MVA ICT, 220/66kV (HV)	14.36	
		Total	32.11	Auxiliary Consumption & Transformation Losses at Generator end	-0.72%	
7	2 x 63MW DHP	Unit-I	0.00	220kV DHP - Tsirang Line	0.00	Unit-I on Standby. 220kV DHP-TSI line kept on idle charge.
		Unit-II	26.00	220kV DHP - Dagapela Line	25.74	
		-	-	220kV Jigmeling - Dagapela Line	22.90	
		-	-	5MVA, 220/33kV TFR	0.20	
		Total	26.00	Auxiliary Consumption & Transformation Losses at Generator end	0.23%	
8	4 x 15MW KHP	Unit- I	16.34	132kV KHP - Nangkhon Line	40.96	
		Unit-II	16.50	132kV KHP - Kilikhar Line	24.17	
		Unit- III	16.50	5MVA, 132/11kV TFR	0.26	
		Unit- IV	16.50	132kV Motanga - Rangia Line	23.90	
		Total	65.84	Auxiliary Consumption & Transformation Losses at Generator end	0.68%	
9	2 x 59MW NHP	Unit-I	0.00	132kV NHP-MHP-I	45.00	Unit-I under Shutdown. 132kV NHP-MHP line-II on Standby.
		Unit-II	45.02	132kV NHP-MHP-II	0.00	
		Total	45.02	Auxiliary Consumption & Transformation Losses at Generator end	0.04%	
10	2 x 9MW SHP	Unit- I	5.52	66kV SHP-Damdhum (Samtse)	0.00	Interim measure: evacuation is through 33kV system.
		Unit- II	4.00	-	-	
		Total	9.52	Auxiliary Consumption & Transformation Losses at Generator end	100.00%	

Note: Generation-Load Summary (MW) for 19-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)	1,466.99	966.32	500.68

Note: Generation-Load Summary (MW) for 19-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)	1,051.85	899.15	148.84

Note: Daily Energy (MUs) and Power(MW) Statistics for 19-May-2025

Sl. No.	Total Energy Generation	Daily Energy Met	Net Energy Import (IEX and Solar)	Net Energy Export	Peak Cross-border (MW)
1	35.29	21.93	0.00	13.20	763.01

- 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.