

THE DAILY BHUTAN POWER SYSTEM OPERATOR LOAD-GENERATION BALANCE REPORT & ENERGY FIGURES ISSUED ON 29-Oct-2024(-ve:import, +ve:export)							
Report Details	Date	Time	National Coincidental Peak Load (MW)		Date	Time	Load
	28-Oct-2024	19:00 hrs			30-Dec-2023	18:00 hrs	955.51
Sl. No.	Hydropower Plant	Unit	MW	Transmission Lines and Elements	Load (MW)	Remarks	
1	6 x 170MW THP	Unit-I	69.84	400kV THP - Siliguri Line - I	0.00	Unit-V under AMP. 400kV THP_Siliguri line-I on standby 400kV MAL-SIL line under Shutdown.	
		Unit-II	157.09	400kV THP - Siliguri Line - II	112.25		
		Unit-III	78.97	400kV THP - Siliguri Line- IV	110.25		
		Unit-IV	136.24	400kV THP - Malbase Line - III	318.01		
		Unit-V	0.00	400kV Malbase - Siliguri Line	0.00		
		Unit-VI	99.16	-	-		
		Total	541.30	Auxiliary Consumption & Transformation Losses at Generator end	0.15%		
2	4 x 180MW MHP	Unit-I	0.00	400kV MHP - Jigmeling Line - I	0.00	Unit-I under shutdown. 400kV MHP-JLG Line I under Breakdown. 400kV MHP-JLG line II on Standby. 132kV MHP_Yurmo Line- I not in Service. 400kV JLG_ALI Interim Line II on Standby.	
		Unit-II	190.25	400kV MHP - Jigmeling Line - II	0.00		
		Unit-III	130.77	400kV MHP - Jigmeling Line - III	198.85		
		Unit-IV	61.34	400kV MHP - Jigmeling Line - IV	198.05		
		-	-	132kV MHP - Yurmo Line - I	0.00		
		-	-	132kV MHP - Yurmo Line - II	64.39		
		-	-	500MVA, 400/220kV ICT at Jigmeling (HV)	129.45		
		-	-	400kV Jigmeling - Puna - Alipurduar Line - I	65.46		
		-	-	400kV Jigmeling - Puna - Alipurduar Line - II	0.00		
		-	-	400kV Jigmeling - Alipurduar Line - I	98.91		
		-	-	400kV Jigmeling - Alipurduar Line - II	100.36		
		-	-	80MVA, 220/132kV ICT - I (HV)	27.19		
		-	-	80MVA, 220/132kV ICT - II (HV)	26.98		
		-	-	220kV Tsirang - Jigmeling Line	-22.41		
		-	-	132kV Gelephu - Salakati Line	10.51		
		Total	382.36	Auxiliary Consumption & Transformation Losses at Generator end	0.10%		
		3	4 x 84MW CHP	Unit-I	62.70		
Unit-II	79.25			220kV CHP - Birpara Line - II	-9.43		
Unit-III	57.61			220kV CHP - Gedu	32.02		
Unit-IV	61.09			220kV CHP - Jamjee (old) - I	79.80		
-	-			220kV CHP - Jamjee - II (new)	80.34		
-	-			220kV CHP - Jamjee - III (new)	77.64		
-	-			220kV Malbase - Birpara Line	1.66		
-	-			66kV CHP - Gedu Line	7.01		
-	-			3x3MVA, 66/11kV TFR	1.60		
Total	260.65			Auxiliary Consumption & Transformation Losses at Generator end	0.46%		
4	2 x 12MW BHP (U/S)	Unit-I	7.30	220kV BHP - Sentokha Line	101.23		
		Unit-II	8.56	66kV BHP - Lobeyasa Line	27.37		
		Total	15.86	220kV BHP - Tsirang Line	-84.07		
5	2 x 20MW BHP (L/S)	Unit-I	14.90	5MVA, 66/11kV TFR	0.63		
		Unit-II	14.37	30MVA ICT, 220/66kV (HV)	12.80		
		Total	29.27	Auxiliary Consumption & Transformation Losses at Generator end	-0.07%		
6	2 x 63MW DHP	Unit-I	32.74	220kV DHP - Tsirang Line	65.30	220kV DHP_Dagapela Line on Standby.	
		Unit-II	32.98	220kV DHP - Dagapela Line	0.00		
		-	-	220kV Jigmeling - Dagapela Line	53.49		
		-	-	5MVA, 220/33kV TFR	0.24		
Total	65.72	Auxiliary Consumption & Transformation Losses at Generator end	0.27%				
7	4 x 15MW KHP	Unit-I	12.56	132kV KHP - Nangkor Line	29.34		
		Unit-II	12.55	132kV KHP - Kilikhar Line	20.11		
		Unit-III	12.66	5MVA, 132/11kV TFR	0.36		
		Unit-IV	12.53	132kV Motanga - Rangia Line	34.90		
		Total	50.30	Auxiliary Consumption & Transformation Losses at Generator end	0.97%		
8	2 x 59MW NHP	Unit-I	51.97	132kV NHP-MHP-I	51.55		
		Unit-II	28.00	132kV NHP-MHP-II	27.76		
		Total	79.97	Auxiliary Consumption & Transformation Losses at Generator end	0.83%		

Note: Generation-Load Summary (MW) for 28-Oct-2024 at 19:00 hrs

Sl. No.	Region	Total Generation	Total Load (Gen. - Exp.)	Total Load (Feeder Summation)	Total Export/Import	Auxiliary Consumption & Transformation Losses
1	Western Grid	912.80	730.01	727.87	205.20	2.14
2	Eastern Grid	512.63	180.08	178.55	310.14	1.53
	Total	1,425.43	910.09	906.42	515.34	3.67

Note: Generation-Load Summary (MW) for 28-Oct-2023, at 19:00 hrs

Sl. No.	Region	Total Generation	Total Load (Gen. - Exp.)	Total Load (Feeder Summation)	Total Export/Import	Auxiliary Consumption & Transformation Losses
1	Western Grid	778.01	676.71	159.17	0.59	517.54
2	Eastern Grid	313.44	194.73	60.84	2.18	133.89
	Total	1,091.45	871.44	220.01	2.77	651.43

Note: Daily Energy (MUs) and Power(MW) Statistics for 28-Oct-2024

Sl. No.	Net Energy Export (Bilateral)	Net Energy Import (Bilateral)	Daily Energy Met	Total Energy Generation	Peak Cross-border (MW)	Imp./Exp. through Exchange (MUs)
1	12.95	0.00	20.39	34.45	653.43	0.96

1. 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:

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.