



THE DAILY BHUTAN POWER SYSTEM OPERATOR LOAD-GENERATION BALANCE REPORT & ENERGY FIGURES ISSUED ON 18-Feb-2025(-ve:import, +ve:export)							
Report Details	Date	Time	National Coincidental Peak Load (MW)		Date	Time	Load
	17-Feb-2025	18:00 hrs			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	151.33	400kV THP - Siliguri Line - I	55.32	Unit-II & III under AMP. Unit - VI under Breakdown. 400kV THP-SIL Line IV on Standby. 400kV THP-SIL Line II under AMP .	
		Unit-II	0.00	400kV THP - Siliguri Line - II	0.00		
		Unit-III	0.00	400kV THP - Siliguri Line - IV	0.00		
		Unit-IV	128.72	400kV THP - Malbase Line - III	305.09		
		Unit-V	79.61	400kV Malbase - Siliguri Line	2.18		
		Unit-VI	0.00	-	-		
		<b>Total</b>	<b>359.66</b>	<b>Auxiliary Consumption &amp; Transformation Losses at Generator end</b>	<b>-0.21%</b>		
2	4 x 180MW MHP	Unit-I	130.39	400kV MHP - Jigmeling Line - I	0.00	Unit-IV under AMP. Unit-III under Shutdown 400kV MHP-JLG line I & IV on Standby. 132kV MHP_Yurmo line-I not in service.	
		Unit-II	80.10	400kV MHP - Jigmeling Line - II	84.58		
		Unit-III	0.00	400kV MHP - Jigmeling Line - III	84.98		
		Unit-IV	0.00	400kV MHP - Jigmeling Line - IV	0.00		
		-	-	132kV MHP - Yurmo Line - I	0.00		
		-	-	132kV MHP - Yurmo Line - II	64.99		
		-	-	500MVA, 400/220kV ICT at Jigmeling (HV)	90.55		
		-	-	400kV Jigmeling - Alipurduar Line - I	126.55		
		-	-	400kV Jigmeling - Alipurduar Line - II	125.74		
		-	-	80MVA, 220/132kV ICT - I (HV)	26.28		
		-	-	80MVA, 220/132kV ICT - II (HV)	26.07		
		-	-	220kV Tsirang - Jigmeling Line	15.38		
		-	-	132kV Gelephu - Salakati Line	-1.60		
		<b>Total</b>	<b>210.49</b>	<b>Auxiliary Consumption &amp; Transformation Losses at Generator end</b>	<b>0.34%</b>		
3	6 x 170MW PHP-II	Unit-I	179.46	400kV PHP II - Jigmeling -I	0.00	Unit-II on Standby 400kV PHP II-ALI line I on Standby.	
		Unit-II	0.00	400kV PHP II - Jigmeling -II	179.39		
		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	-	-		
		<b>Total</b>	<b>179.46</b>	<b>Auxiliary Consumption &amp; Transformation Losses at Generator end</b>	<b>0.04%</b>		
4	4 x 84MW CHP	Unit-I	71.51	220kV CHP - Birpara Line - I	-133.21	Unit-II under AMP. Unit-III under shutdown. 220kV CHP_Gedu line is kept open in order to avoid over loading of 220kV MAL-Ged2 line as 220kV BHP_TSI line is under breakdown.	
		Unit-II	0.00	220kV CHP - Birpara Line - II	-132.06		
		Unit-III	0.00	220kV CHP - Gedu	0.00		
		Unit-IV	58.77	220kV CHP - Jamjee - I	133.45		
		-	-	220kV CHP - Jamjee - II	133.96		
		-	-	220kV CHP - Jamjee - III	129.24		
		-	-	220kV Malbase - Birpara Line	6.16		
		-	-	66kV CHP - Gedu Line	-0.64		
		-	-	3x3MVA, 66/11kV TFR	1.62		
		<b>Total</b>	<b>130.28</b>	<b>Auxiliary Consumption &amp; Transformation Losses at Generator end</b>	<b>-1.60%</b>		
5	2 x 12MW BHP (U/S)	Unit-I	5.20	220kV BHP - Semtokha Line	-10.60	U/S Unit-II under Shutdown. L/S Unit-I on Standby. 220kV BHP_TSI line under breakdown.	
		Unit-II	0.00	66kV BHP - Lobeysa Line	25.62		
		<b>Total</b>	<b>5.20</b>	220kV BHP - Tsirang Line	0.00		
6	2 x 20MW BHP (L/S)	Unit-I	0.00	5MVA, 66/11kV TFR	0.66		
		Unit-II	10.70	30MVA ICT, 220/66kV (HV)	21.25		
		<b>Total</b>	<b>10.70</b>	<b>Auxiliary Consumption &amp; Transformation Losses at Generator end</b>	<b>1.38%</b>		
7	2 x 63MW DHP	Unit-I	18.97	220kV DHP - Tsirang Line	18.79	Unit II under AMP. 220kV DHP-Dagapela line on Standby.	
		Unit-II	0.00	220kV DHP - Dagapela Line	0.00		
		-	-	220kV Jigmeling - Dagapela Line	53.45		
		-	-	5MVA, 220/33kV TFR	0.17		
		<b>Total</b>	<b>18.97</b>	<b>Auxiliary Consumption &amp; Transformation Losses at Generator end</b>	<b>0.05%</b>		
8	4 x 15MW KHP	Unit-I	0.00	132kV KHP - Nangkhon Line	7.38	Unit-I under AMP. Unit-IV on Standby.	
		Unit-II	11.23	132kV KHP - Kilikhar Line	14.47		
		Unit-III	11.24	5MVA, 132/11kV TFR	0.40		
		Unit-IV	0.00	132kV Motanga - Rangia Line	4.56		
		<b>Total</b>	<b>22.47</b>	<b>Auxiliary Consumption &amp; Transformation Losses at Generator end</b>	<b>0.98%</b>		
9	2 x 59MW NHP	Unit-I	24.96	132kV NHP-MHP-I	24.77	Unit-II under AMP. 132kV NHP-MHP line-II on Standby.	
		Unit-II	0.00	132kV NHP-MHP-II	0.00		
		<b>Total</b>	<b>24.96</b>	<b>Auxiliary Consumption &amp; Transformation Losses at Generator end</b>	<b>0.76%</b>		

Note: Generation-Load Summary (MW) for 17-Feb-2025 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)	962.19	908.55	53.64

Note: Generation-Load Summary (MW) for 17-Feb-2024, 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)	709.36	884.41	11.94

Note: Daily Energy (MUs) and Power(MW) Statistics for 17-Feb-2025

Sl. No.	Total Energy Generation	Daily Energy Met	Net Energy Import (IEX and Solar)	Net Energy Export	Peak Cross-border (MW)
1	14.61	21.42	7.25	0.44	-633.15

- 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 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.
  - 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.