GOVERNMENT OF INDIA
MINISTRY OF POWER

RAJYA SABHA
UNSTARRED QUESTION NO.1115
ANSWERED ON 12.12.2023

ELECTRICAL POWER DISTRIBUTION IN ASSAM

1115 SHRI AJIT KUMAR BHUYAN:

Will the Minister of **POWER** be pleased to state:

(a) the quantity of power allotted to Assam/APDCL from Central Sector Generating Stations, the details thereof, station-wise allocation and prevailing tariff thereon;

(b) the peak demand and off-peak demand of power in Assam/APDCL and the various source of power availability including Assam's own actual generation, the details thereof;

(c) whether there is any proposal from Assam/APGCL for setting up of new generating project either ongoing or under consideration;

(d) the details of Grid capacity of Assam/AEGCL within the State of Assam; and

(e) whether it is sufficient to meet the demand of power in the State and the details of Grid augmentation projects either ongoing or under consideration?

A N S W E R

THE MINISTER OF POWER AND NEW & RENEWABLE ENERGY

(SHRI R.K. SINGH)

(a) : The station-wise details of power allocation to Assam from Central Sector Generating Stations as on 31.10.2023 alongwith prevailing tariff are given at **Annexure-I.**

(b) : The details of month-wise Power Supply Position in State of Assam in terms of peak during the current year i.e. 2023-24 (upto October, 2023) are given at **Annexure-II.**

The details of power availability from various sources including Assam's own generation are given at **Annexure-III.**

(c) : The details of new generating power plant (ongoing projects and projects under consideration) are given at **Annexure-IV**.

(d) & (e) : The Assam State grid transformation capacity is 9045 MVA and the total transmission line length is 5146.69 circuit km. The details are given at **Annexure-V**. To further improve the Grid capacity, various augmentation/new projects are being taken up by AEGCL. The details of grid augmentation projects in the State of Assam are given at **Annexure-VI.**

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ANNEXURE-I

ANNEXURE REFERRED TO IN REPLY TO PART (a) OF UNSTARRED QUESTION NO. 1115 ANSWERED IN THE RAJYA SABHA ON 12.12.2023

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The station-wise details of power allocation to Assam from Central Sector Generating Stations as on 31.10.2023 alongwith prevailing tariff.

STATIONS	**Installed Capacity (MW)**	**Firm Power (MW)**	**Allocated from unallocated resources**	**Total power allocation to Assam (MW)**	**Prevailing Tariff (Oct'23) (Rs/Unit)**
Dadri NCTPS	840	179	0	179	4.877
Farakka-I&II TPS	1600	12	29	41	5.055
Kahalgaon-I TPS	840	3	15	18	4.222
Talcher-I TPS	1000	5	17	22	2.738
Kahalgaon-II TPS	1500	0	78	78	4.467
Bongaigaon TPS	750	381	50	431	6.01
Loktak HPS	105	24	7	31	3.554
Khandong HPS*****	50	25	3	28	-
Kopili+Kopili Extn. HPS	200	94	13	107	2.1
Kopili HEP-II	25	11	2	13	2.126
Ranganadi HPS	405	149	26	175	2.925
Pare HEP	110	37	7	44	5.351
Kameng HEP (Unit I,II, III & IV)	600	65	0	65	4.008
Mangdechhu HEP	720	122	22	144	6.455
Doyang HPS	75	28	5	33	8.745
Kathalguri GPS	291	145	19	164	6.693
Agartala GPS (CC)	130	48	8	56	9.007
Pallatana GPP	726	240	0	240	3.288
Total	**9967**	**1569**	**301**	**1870**	

***** Plant under total shutdown since January, 2022 for R&M.

TPS-Thermal Power Station
HPP-Hydro Power Plant
HEP-Hydro Electric Power
GPS- Gas Power Station
NCTPS-National Capital TPS

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ANNEXURE-II

ANNEXURE REFERRED TO IN REPLY TO PART (b) OF UNSTARRED QUESTION NO. 1115 ANSWERED IN THE RAJYA SABHA ON 12.12.2023

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The details of month-wise Power Supply Position in State of Assam in terms of peak during the current year i.e. 2023-24 (upto October, 2023).

Months	**Peak Demand**	**Peak Met**	**Demand not Met**	
	(MW)	**(MW)**	**(MW)**	**(%)**
April, 2023	2,013	2,013	0	0
May, 2023	2,219	2,219	0	0
June, 2023	2,307	2,307	0	0
July, 2023	2,390	2,390	0	0
August, 2023	2,535	2,322	213	8.39
September, 2023	2,540	2,372	168	6.61
October, 2023	2,346	2,258	88	3.75

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ANNEXURE-III

ANNEXURE REFERRED TO IN REPLY TO PART (b) OF UNSTARRED QUESTION NO. 1115 ANSWERED IN THE RAJYA SABHA ON 12.12.2023

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The details of power availability from various sources including Assam's own generation.

Sl. No.	Name of the Generating Station	Sector	Source	State Share (MW)
1	Namrup TPS	State	Gas	98
2	Lakwa TPS	State	Gas	97
3	Karbi Langpi HEP	State	Hydro	100
4	Myntriang SHEP	State	Hydro	13.5
5	Lakwa Replacement Power Project	State	Gas	69.7
6	Namrup Replacement Power Project	State	Gas	41
7	KopiliI	Central	Hydro	107
8	KopiliII	Central	Hydro	13
9	Khandong HEP	Central	Hydro	28
10	Ranganadi HEP	Central	Hydro	175
11	Doyang HEP	Central	Hydro	33
12	Kathalguri GPS	Central	Gas	164
13	Agartala GPS (CC)	Central	Gas	56
14	Loktak HEP	Central	Hydro	31
15	Farakka	Central	Coal	41
16	Kahelgaon I	Central	Coal	18
17	Kahelgaon II	Central	Coal	78
18	Talcher	Central	Coal	22
19	Pallatana GPP	Central	Coal	240
20	Bongaigaon TPS	Central	Coal	431
21	Pare HEP	Central	Hydro	44
22	Kameng HEP (Unit I, II,III&IV)	Central	Hydro	65
23	Mangdechhu	Central	Hydro	144
24	Jawaharlal Nehru National Solar Mission (Bundled Power-Coal) - NVVNL	Central	Coal	5
25	Jawaharlal Nehru National Solar Mission (Bundled Power-Solar) - NVVNL	Central	Solar	5
26	SECI	Central	Solar	20
27	Hayen Hydel	Private	Hydro	4
28	Suryataap Energies and Infrastructure Pvt. Lid.	Private	Solar	5
29	Wind Power PTC	Central	Wind	50
30	Wind Power SECI	Central	Wind	50
31	Azure Power Udalguri	Private	Solar	25
32	Azure Power Boko	Private	Solar	25
33	Azure Power Nagaon	Private	Solar	15
34	Jakson Power Amguri	Private	Solar	70
35	Maheswari Mining & Energy Pvt Ltd	Private	Solar	10
36	Azure Power Silchar	Private	Solar	25
37	DadriI	Central	Coal	179
	Total			**2597.2**

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ANNEXURE-IV

ANNEXURE REFERRED TO IN REPLY TO PART (c) OF UNSTARRED QUESTION NO. 1115 ANSWERED IN THE RAJYA SABHA ON 12.12.2023

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The details of ongoing projects and projects under consideration

Ongoing Projects		
Sl. No.	**Name of the Project**	**Capacity(MW)**
1	Lower Kopili Hydro Electric Project	120
2	Karbi Langpi Middle-II Hydro Power Project	24
3	Namrup Solar PV Project	25
Upcoming Projects		
Sl. No.	**Name of the Project**	**Capacity(MW)**
1	Sonbeel Floating Solar PV Project. (Phase-01)	20
2	Lower Kopili Solar PV Project	50
3	Karbi Langpi Middle-I Hydro Power Project	22.5
Under Consideration Projects		
Sl. No.	**Name of the Project**	**Capacity(MW)**
1	Tezpur Solar PV Project	100
2	Golaghat Floating Solar PV Project. C	40
3	Margherita Solar PV Project	200
4	Batadrava Solar PV Project	100

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ANNEXURE-V

ANNEXURE REFERRED TO IN REPLY TO PARTS (d) & (e) OF UNSTARRED QUESTION NO. 1115 ANSWERED IN THE RAJYA SABHA ON 12.12.2023

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The details of substation, transformer and transmission line of Assam.

Transformer Details			
Sl. No.	**Voltage Level**	**Count of Transformers**	**MVA Rating**
1	400/220KVLevel	2	630
2	220/132KVLevel	29	3320
3	220/33KVLevel	2	100
4	132/66KVLevel	2	40
5	132/33KVLevel	155	4923
6	132/11KVLevel	2	32
	Total	**192**	

Substation Details		
Sl. No.	**Voltage Level**	**Count of Substations**
1	400/220/132/33	1
2	220/132/33	8
3	220/132	3
4	220/132/66/33	1
5	220/33	1
6	132/33	64
7	132/11	1
	Total	**79**

Transmission Line Details		
Sl. No.	**Voltage Level**	**CKT KMS**
1	400KV	6.458
2	220KV	1777.758
3	132KV	3353.477
4	66KV	9
	Total	**5146.693**

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ANNEXURE-VI

ANNEXURE REFERRED TO IN REPLY TO PARTS (d) & (e) OF UNSTARRED QUESTION NO. 1115 ANSWERED IN THE RAJYA SABHA ON 12.12.2023

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The details of the Grid augmentation projects in Assam.

List of ongoing projects funded by AIIB		
(a) Augmentation of Transformation Capacity of existing Grid Substations of AEGCL		
Sl. No.	**Name of the Project**	**Capacity**
1	Hailakandi GSS	132kV
2	Barnagar GSS	132kV
3	Pancharam GSS	132kV
4	Agja GSS	220kV
5	Gauripur GSS	132kV
6	Rowta GSS	132kV
7	Depota GSS	132kV
8	Golaghat GSS	132kV
9	Samaguri GSS	220kV
10	Sarusajai GSS	220kV
11	Dibrugarh GSS	132kV
12	Moran GSS	132kV
13	Nalbari GSS	132kV
14	Narengi GSS	132kV
15	Kahilipara GSS	132kV
16	Rangia GSS	220kV
17	Kukurmara GSS	400kV
18	Boko GSS	220kV
(b)Augmentation of existing Transmission Lines of AEGCL Capacity with HTLS		
Sl. No.	**Name of the Project**	**Capacity**
1	D/C Btps (Salakati)-Dhaligaon T/L	132KV
2	D/C Kukurmara-Sarusajai T/L	220kV
3	S/C Gossaigaon-Gauripur T/L	132KV
4	S/C Sarusajai-Kamkhya T/L	132KV
(c)Upcoming New Substations		
Sl. No.	**Name of the Project**	**Capacity**
1	Nagaon2GSSandassociatedlines	220/33KV
2	Chayygaon GSS and associated lines	220/33KV
3	Bihpuria GSS and associated lines	220/33KV
4	Jakhalabandha GSS and associated lines	220/33KV
5	Burhigaon GSS and associated lines	132/33KV
6	Khumtai GSS and associated lines	220/33KV
7	Sankardevnagar GSS and associated lines	220/132KV
8	Agomoni GSS and associated lines	220/33KV
9	Gohpur (Conversion from AlS To GIS)	132/33kV
10	Rangia GSS and associated lines	400/220KV
11	Sonapur GSS and associated lines	400/220KV
12	Dhing GSS and associated lines	132/33KV
13	Lumding GSS and associated lines	132/33KV
14	Dhupdhara GSS and associated lines	132/33KV
15	Chabua GSS and associated lines	132/33KV
16	Amayapur GSS and associated lines	132/33KV

17	Rowta GSS and associated lines	220/132KV
18	ZOO Road GSS and associated lines	132/11KV
19	Boragaon GSS and associated lines	220/33KV
20	Panjabari GSS and associated lines	220/33KV
21	Titabor GSS and associated lines	132/33KV
22	Serfanguri GSS and associated lines	132/33KV
23	Morigaon GSS and associated lines	220/132/33KV

Augmentation projects under pipeline which have already been approved from Central Electricity Authority/Regional Power Committee

(a)New Substation

Sl. No.	Name of the proposal
1	i. Establishment of new 400/220 kV (2 X 500 MVA) and 220/132 kV (2 X 160 MVA) S/S at Naharkatia GIS Substation, ii. Naharkatia (AEGCL-New) - Gogamukh (PGCIL-New) 400kV D/C Line-(130km), iii. Termination of New Mariani-Kathalquri 220kV D/C existing line at Naharkatia (New) with operation of New Mariani-Naharkatia section at 400kV and Naharkatia-Kathalguri section at 220kV -(10km), iv. Naharkatia (AEGCL-New) -Behiating (AEGCL-Existing) 220kV D/C Line -(40km)
2	i. Establishment of new 400/220kV (2X500 MVA)at Khumtai GIS Substation, ii. BNC (PGCIL)-Khumtai (AEGCL-New) 400kV D/C Line-(119km), iii. Khumtai (proposed)- Khumtai (existing 220/132kV S/s) 220kV D/C line -(1km), iv. LILO of both circuits of Samaguri-Mariani 220kV D/C line-(10km)
3	i. Establishment of new 220/132 kV (2X 160 MVA) and 220/33kV, 2x100MVA GIS Substation at Barnagar GIS Substation, ii. LILO of one circuit of Rangia (AEGCL-Existing)- Salakati (AEGCL-Existing) 220kV D/C Line at Barnagar (AEGCL- New), iii. Barnagar (New)-Barnagar (existing) 132kV D/C Line-(0.5km)
4	i. Establishment of new 220/33KV (2X100MVA) Substation at Diphu (AIS) ii. New Mariani (PGCIL-Existing)-Diphu (AEGCL-New) 220kV D/C Line-(155km) iii. Sankardev Nagar (AEGCL-New")-Diphu (AEGCL-New) 220kV D/C Line-(81km) (Sub station under implementation)
5	i. Establishment of new132/33KV (2X50MVA) AIS Substation at Lala ii. Hailakandil (AEGCL-Existing)-Lala (AEGCL-New) 132KV S/C line-(20km)
6	i. Establishment of new 132/33kV (2X50MVA) AIS Substation at Patharkandi ii. Karimganj (AEGCL-Existing)-Patharkandi (AEGCL-New)132kV S/C line-(35km)
7	i. Establishment of new 132/33KV (2X50MVA) GIS Substation at Digboi ii. LILO of Margherita (Ledo) (AEGCL-Existing) -Tinsukia (AEGCL-Existing) 132KV S/C Line at Digboi (AEGCL-New)-(10km)
8	i. Establishment of new 132/33kV (2X50MVA) AIS Substation at Jonai ii. Jonai (AEGCL- New) -Silapathar (AEGCL-New) 132KV S/C Line on D/C Tower-(41km)
9	i. Establishmentofnew132/33kV(2X50MVA) AIS Substation at Ghilamora ii. LILO of one circuit of North Lakhimpur (AEGCL- Existing) -Dhemaji (AEGCL- Existing) 132kV D/C Line at Ghilamora Substation-(25km)
10	i. Establishment of new 132/33 kV (2 X 50 MVA) AIS Substation at Dumunichowki ii. Sishugram(AEGCL-Existing)- Dumunichowki (AEGCL-New) 132KV S/C line on D/C Tower -(21km)

11	i. Establishment of new132/33kV (2X50MVA) AIS Substation at Doulasal ii. Barpeta (AEGCL-Existing)- Amayapur (AEGCL-New) 132kV D/C line with LILO of one circuit at Doulasal (46km)
12	i. Establishment of new 132/33 kV (2 X 50 MVA) AIS Substation at North Salmara ii. North Salmara (AEGCL-New)- APM (AEGCL-Existing) 132kV S/C line - (12km)
13	i. Establishment of new 132/33kV (2X50MVA) AIS Substation at Tikrikilla ii. LILO of Agia-Hatsingimari (AEGCL existing) 132kV S/C line at Tikrilla (8km)
14	i. Establishment of new 132/33 kV (2 X 50 MVA) AIS Substation at Modertoli (Kampun) ii. LILO of one circuit of 132kV Samaguri (AEGCL existing)-Sankardevnagar D/C Line at Modertoli (Kampur) (10km)
15	i. Establishment of new 220/33kV (2X50MVA) GIS Substation at Haflong ii. Haflong (AEGCLnew)-Diphu (AEGCL New) 220kV D/C Line (148km).
16	Establishment of new 220/132kV S/s in the IOCL (BGR) Complex through connectivity with S/C LILO of 220kV D/C Rangia-Salakati Line.
(b)Reconductoring of existing Transmission lines of AEGCL with HTLS	
Sl.No.	**Name of the Project**
1	Sonabil-Depota,Sonabil-Ghoramari and Ghoramari-Depota132kV S/C line
2	Sonabil-Pavoi132kV S/C line
3	Sonabil-Gohpur132kV S/C Line
4	Pavoi-Gohpur132kV S/C Line
5	Kahilipara-Amingaon132kV both line sections with one circuit via Kamakhya And other via Sishugram
6	Amingaon-Dhaligaon132kV Section except Rangia-Nathkuchi-Barnagar132kV
7	Hailakandi-Dullavcherra, Panchgram-Hailakandi and Srikona-Pailapool 132kV

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