



National Load Despatch Centre
राष्ट्रीय भार प्रेषण केंद्र
GRID CONTROLLER OF INDIA LIMITED
ग्रीड कंट्रोलर ऑफ इंडिया लिमिटेड

(Government of India Enterprise/ भारत सरकार का उद्यम)
B-9, QUTUB INSTITUTIONAL AREA, KATWARIA SARAI, NEW DELHI -110016
बी-9, कुतुब इन्स्टीट्यूशनल एरिया, कटवारिया सराये, न्यू दिल्ली-110016

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 26th June 2023

To,

- कार्यकारी निदेशक, पू.क्षे.भा.प्रे.के., 14, गोल्फ क्लब रोड, कोलकाता - 700033
Executive Director, ERLDC, 14 Golf Club Road, Tollygunge, Kolkata, 700033
- कार्यकारी निदेशक, ऊ.क्षे.भा.प्रे.के., 18/ए, शहीद जीत सिंह सनसनवाल मार्ग, नई दिल्ली - 110016
Executive Director, NRLDC, 18-A, Shaheed Jeet Singh Marg, Katwaria Sarai, New Delhi - 110016
- कार्यकारी निदेशक, प.क्षे.भा.प्रे.के., एफ3-, एम आई डी सी क्षेत्र, अंधेरी, मुंबई -400093
Executive Director, WRLDC, F-3, M.I.D.C. Area, Marol, Andheri (East), Mumbai-400093
- कार्यकारी निदेशक, ऊ.पू.क्षे.भा.प्रे.के., डोंगतेह, लोअर नोंग्रह, लापलंग, शिलोंग - 793006
Executive Director, NERLDC, Dongteih, Lower Nongrah, Lapalang, Shillong - 793006, Meghalaya
- कार्यकारी निदेशक, द.क्षे.भा.प्रे.के., 29, रेस कोर्स क्रॉस रोड, बंगलुरु -560009
Executive Director, SRLDC, 29, Race Course Cross Road, Bangalore-560009

Sub: Daily PSP Report for the date 25.06.2023.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 25-जून-2023 की अखिल भारतीय प्रणाली की दैनिक ग्रीड निष्पादन रिपोर्ट रा०भा०प्रे०के० की वेबसाइट पर उपलब्ध है।

As per article 5.5.1 of the Indian Electricity Grid Code, the daily report pertaining power supply position of All India Power System for the date 25th June 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 26-Jun-2023

A. Power Supply Position at All India and Regional level

	NR	WR	SR	ER	NER	TOTAL
Demand Met during Evening Peak hrs(MW) (at 20:00 hrs; from RLDCs)	60815	52460	42527	24889	3104	183795
Peak Shortage (MW)	0	0	0	0	13	13
Energy Met (MU)	1402	1261	992	553	64	4272
Hydro Gen (MU)	389	30	37	85	19	560
Wind Gen (MU)	31	88	152	-	-	272
Solar Gen (MU)*	124.64	40.32	94.16	1.77	1.14	262
Energy Shortage (MU)	0.00	0.00	0.00	0.75	1.27	2.02
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	72171	56194	45788	26436	3131	198675
Time Of Maximum Demand Met	00:00	00:00	12:31	00:00	20:10	00:00

B. Frequency Profile (%)

Region	FVI	< 49.7	49.7 - 49.8	49.8 - 49.9	< 49.9	49.9 - 50.05	> 50.05
All India	0.037	0.00	0.00	0.91	0.91	69.23	29.86

C. Power Supply Position in States

Region	States	Max.Demand Met during the day (MW)	Shortage during maximum Demand (MW)	Energy Met (MU)	Drawal Schedule (MU)	OD(+)/UD(-) (MU)	Max OD (MW)	Energy Shortage (MU)
NR	Punjab	14350	0	300.3	187.8	-3.3	204	0.00
	Haryana	11293	0	176.0	131.5	-7.7	273	0.00
	Rajasthan	12445	0	265.4	60.9	-3.6	594	0.00
	Delhi	6283	0	106.7	99.4	-2.4	132	0.00
	UP	22761	0	424.6	219.1	0.0	544	0.00
	Uttarakhand	2102	0	40.9	16.5	-2.8	141	0.00
	HP	1286	0	28.0	-8.7	-0.8	140	0.00
	J&K(UT) & Ladakh(UT)	2435	0	50.5	25.0	-0.1	124	0.00
	Chandigarh	294	0	5.5	6.0	-0.5	31	0.00
Railways_NR ISTS	185	0	4.1	3.6	0.5	41	0.00	
WR	Chhattisgarh	4631	0	90.4	49.6	-3.1	280	0.00
	Gujarat	16462	0	374.0	186.0	-3.9	1036	0.00
	MP	9520	0	211.3	115.8	-2.2	359	0.00
	Maharashtra	22603	0	512.9	188.9	-4.6	816	0.00
	Goa	599	0	12.1	11.8	-0.2	75	0.00
	DNHDDPDCL	1263	0	29.4	29.6	-0.2	31	0.00
	AMNSIL	806	0	18.1	10.6	0.4	247	0.00
	BALCO	525	0	12.5	12.5	0.0	10	0.00
	Andhra Pradesh	9391	0	197.4	46.6	-0.9	660	0.00
SR	Telangana	8225	0	170.1	66.2	-0.6	490	0.00
	Karnataka	10448	0	204.6	59.4	1.0	915	0.00
	Kerala	3573	0	73.9	63.8	1.5	330	0.00
	Tamil Nadu	15053	0	336.3	146.1	-7.7	435	0.00
	Puducherry	425	0	9.6	9.5	-0.6	23	0.00
	Bihar	6624	0	138.6	133.8	-3.6	232	0.75
ER	DVC	3410	0	75.3	-32.8	1.0	301	0.00
	Jharkhand	1726	0	33.3	30.7	-3.3	219	0.00
	Odisha	5474	0	112.4	52.6	-0.8	374	0.00
	West Bengal	9885	0	192.8	66.3	-2.6	170	0.00
	Sikkim	65	0	0.9	1.2	-0.2	14	0.00
	Railways_ER ISTS	25	0	0.2	0.2	-0.1	3	0.00
NER	Arunachal Pradesh	158	0	2.9	2.6	0.0	38	0.00
	Assam	2064	0	40.3	33.3	0.0	107	0.00
	Manipur	165	0	2.4	2.5	-0.1	22	0.00
	Meghalaya	311	13	4.9	1.6	0.1	44	1.27
	Mizoram	97	0	1.8	1.5	-0.1	12	0.00
	Nagaland	168	0	2.7	2.5	-0.1	42	0.00
Tripura	317	0	9.5	5.5	0.3	55	0.00	

D. Transnational Exchanges (MU) - Import(+ve)/Export(-ve)

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	18.5	5.3	-22.5	-18.3
Day Peak (MW)	1408.1	260.4	-1121.0	-809.3

E. Import/Export by Regions (in MU) - Import(+ve)/Export(-ve); OD(+)/UD(-)

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	228.0	-185.5	26.0	-76.7	8.1	0.0
Actual(MU)	174.9	-178.1	48.2	-64.6	13.2	-6.3
O/D/U/D(MU)	-53.1	7.4	22.2	12.0	5.1	-6.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3860	9461	5498	800	818	20437	43
State Sector	6455	12285	5740	2610	241	27331	57
Total	10315	21746	11238	3410	1059	47767	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	675	1327	597	603	12	3213	69
Lignite	28	15	55	0	0	97	2
Hydro	389	30	37	85	19	560	12
Nuclear	29	47	51	0	0	128	3
Gas, Naptha & Diesel	26	23	6	0	23	78	2
RES (Wind, Solar, Biomass & Others)	163	129	267	2	1	562	12
Total	1309	1571	1013	690	55	4639	100

Share of RES in total generation (%)	12.41	8.23	26.37	0.34	2.07	12.13
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	44.37	13.09	35.11	12.54	37.04	26.94

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.025
Based on State Max Demands	1.044

I. All India Peak Demand and shortage at Solar and Non-Solar Hour

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	183070	11:47	81
Non-Solar hr	198675	0:00	250

Diversity factor = Sum of regional or state maximum demands / All India maximum demand

**Note: All generation MU figures are gross

***Godda (Jharkhand) -> Bangladesh power exchange is through the radial connection (isolated from Indian Grid)

Solar Hours -> 06:00 to 18:00hrs and rest are Non-Solar Hours

*Source: RLDCs for solar connected to ISTS; SLDCs for embedded solar. Limited visibility of embedded solar data.

Executive Director-NLDC

INTER-REGIONAL EXCHANGES

Import=(+ve) /Export =(-ve) for NET (MU)

Date of Reporting: 26-Jun-2023

Sl No	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)
Import/Export of ER (With NR)								
1	HVDC	ALIPURDUAR-AGRA	2	0	1501	0.0	32.4	-32.4
2	HVDC	PUSAULI B/B	-	0	97	0.0	2.5	-2.5
3	765 kV	GAYA-VARANASI	2	648	136	4.5	0.0	4.5
4	765 kV	SASARAM-FATEHPUR	1	369	242	0.6	0.0	0.6
5	765 kV	GAYA-BALIA	1	64	678	0.0	6.7	-6.7
6	400 kV	PUSAULI-VARANASI	1	0	143	0.0	1.9	-1.9
7	400 kV	PUSAULI -ALLAHABAD	1	36	93	0.0	0.5	-0.5
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	373	668	0.0	2.6	-2.6
9	400 kV	PATNA-BALIA	2	232	427	0.0	1.2	-1.2
10	400 kV	NAUBATPUR-BALIA	2	309	432	0.0	0.5	-0.5
11	400 kV	BIHARSHARIFF-BALIA	2	406	172	3.6	0.0	3.6
12	400 kV	MOTTHARI-GORAKHPUR	2	206	392	0.0	2.1	-2.1
13	400 kV	BIHARSHARIFF-VARANASI	2	407	164	2.7	0.0	2.7
14	220 kV	SAHUPURI-KARAMNANA	1	19	134	0.0	1.2	-1.2
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	30	0	0.8	0.0	0.8
17	132 kV	KARMANASA-SAHUPURI	1	0	56	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
ER-NR						12.1	51.4	-39.3
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1873	241	22.1	0.0	22.1
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1591	0	24.3	0.0	24.3
3	765 kV	JHARSUGUDA-DURG	2	189	325	0.0	1.3	-1.3
4	400 kV	JHARSUGUDA-RAIGARH	4	121	311	0.0	2.5	-2.5
5	400 kV	RANCHI-SIPAT	2	363	83	4.7	0.0	4.7
6	220 kV	BUDHIPADAR-RAIGARH	1	0	44	0.0	0.6	-0.6
7	220 kV	BUDHIPADAR-KORBA	2	124	0	2.0	0.0	2.0
ER-WR						53.0	4.4	48.7
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	235	0.0	5.1	-5.1
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1244	0.0	30.2	-30.2
3	765 kV	ANGUL-SRIKAKULAM	2	0	2496	0.0	38.8	-38.8
4	400 kV	TALCHER-I/C	2	174	462	0.0	3.0	-3.0
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	74.0	-74.0
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	702	0.0	13.0	-13.0
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	665	0.0	11.9	-11.9
3	220 kV	ALIPURDUAR-SALAKATI	2	0	151	0.0	2.7	-2.7
ER-NER						0.0	27.6	-27.6
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	703	0.0	14.9	-14.9
NER-NR						0.0	14.9	-14.9
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	5808	0.0	63.1	-63.1
2	HVDC	VINDHYACHAL B/B	-	313	255	1.0	2.5	-1.5
3	HVDC	MUNDRA-MOHINDERGARH	2	722	975	2.1	0.0	2.1
4	765 kV	GWALIOR-AGRA	2	514	2455	1.0	22.0	-21.0
5	765 kV	GWALIOR-PHAGI	2	969	1332	4.9	14.5	-9.6
6	765 kV	JABALPUR-ORAI	2	126	955	0.0	18.3	-18.3
7	765 kV	GWALIOR-ORAI	1	766	0	10.8	0.0	10.8
8	765 kV	SATNA-ORAI	1	0	958	0.0	15.2	-15.2
9	765 kV	BANASKANTHA-CHITORGARH	2	2052	332	21.1	0.5	20.5
10	765 kV	VINDHYACHAL-VARANASI	2	0	3574	0.0	64.3	-64.3
11	400 kV	ZERDA-KANKROLI	1	362	62	4.1	0.1	4.0
12	400 kV	ZERDA -BHINMAL	1	675	68	7.8	0.0	7.7
13	400 kV	VINDHYACHAL -RIHAND	1	954	0	19.0	0.0	19.0
14	400 kV	RAPP-SHUJALPUR	2	641	478	5.1	2.3	2.8
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.0	-2.0
17	220 kV	MEHGAON-AURAIYA	1	117	10	1.1	0.0	1.1
18	220 kV	MALANPUR-AURAIYA	1	92	25	0.8	0.0	0.7
19	132 kV	GWALIOR-SAWAI MADHOPUR	1	0	0	0.0	0.0	0.0
20	132 kV	RAJGHAT-LALITPUR	2	0	0	0.0	0.0	0.0
WR-NR						78.5	204.9	-126.3
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	635	0	7.2	0.0	7.2
2	HVDC	RAIGARH-PUGALUR	2	0	2202	0.0	21.0	-21.0
3	765 kV	SOLAPUR-RAICHUR	2	1877	1315	15.0	3.6	11.4
4	765 kV	WARDHA-NIZAMABAD	2	0	2371	0.0	26.5	-26.5
5	400 kV	KOLHAPUR-KUDGI	2	1410	0	24.3	0.0	24.3
6	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
7	220 kV	PONDA-AMBEWADI	1	0	75	0.0	0.3	-0.3
8	220 kV	XELDEM-AMBEWADI	1	1	112	1.7	0.0	1.7
WR-SR						48.2	51.3	-3.1

INTERNATIONAL EXCHANGES					Import(+ve)/Export(-ve)		
State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange (MU)	
BHUTAN	ER	400kV MANGDECHHU-ALIPURDUAR 1,2&3 i.e. ALIPURDUAR RECEIPT (from MANGDECHHU HEP 4*180MW)	465	0	242	5.82	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	706	367	467	11.22	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	113	-12	21	0.51	
	NER	132kV GELEPHU-SALAKATI	42	14	28	0.68	
	NER	132kV MOTANGA-RANGIA	30	0	10	0.25	
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-74	0	-35	-0.83	
	ER	NEPAL IMPORT (FROM BIHAR)	-59	0	-21	-0.50	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	393	211	274	6.58	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-940	-818	-937	-22.48	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-809	-687	-763	-18.31	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-181	0	0	0.00	