



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: 23rd 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 22.06.2023.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 22-जून-2023 की अखिल भारतीय प्रणाली की दैनिक ग्रीड निष्पादन रिपोर्ट रांभांप्रेके 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 22st June 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 23-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)	75577	60318	46910	25526	2919	211250
Peak Shortage (MW)	178	0	0	113	44	335
Energy Met (MU)	1668	1466	1105	577	51	4866
Hydro Gen (MU)	386	33	48	115	30	613
Wind Gen (MU)	49	126	129	-	-	304
Solar Gen (MU)*	136.43	54.12	103.39	2.66	0.65	297
Energy Shortage (MU)	1.02	1.70	0.00	2.72	1.02	6.46
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	76809	65868	52006	26644	2968	215225
Time Of Maximum Demand Met	22:47	15:18	14:45	23:13	18:49	15:02

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	0.038	0.00	0.00	3.44	3.44	71.13	25.44

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	15033	0	333.5	201.1	-2.2	135	0.00
	Haryana	11204	249	237.9	175.4	-5.1	0	0.99
	Rajasthan	13099	0	289.3	68.1	-3.5	169	0.00
	Delhi	6880	0	137.3	123.8	-1.1	189	0.03
	UP	25680	0	513.2	242.8	0.2	406	0.00
	Uttarakhand	2481	0	55.6	26.4	-0.4	57	0.00
	HP	1596	0	34.2	-3.7	-0.2	107	0.00
	J&K(UT) & Ladakh(UT)	2505	0	54.7	26.7	1.9	231	0.00
	Chandigarh	387	0	7.9	7.9	0.0	18	0.00
Railways_NR ISTS	193	0	4.1	3.3	0.8	62	0.00	
WR	Chhattisgarh	4679	0	105.8	52.7	-2.5	266	0.00
	Gujarat	19215	0	412.0	167.4	-3.0	1054	0.00
	MP	10960	0	244.7	129.1	-4.4	250	0.00
	Maharashtra	27644	0	626.6	234.2	-1.5	1147	1.70
	Goa	721	0	15.4	14.8	0.0	122	0.00
	DNHDDPDCL	1309	0	30.6	30.8	-0.2	37	0.00
	AMNSIL	810	0	18.1	7.4	0.4	284	0.00
	BALCO	524	0	12.5	12.4	0.1	10	0.00
SR	Andhra Pradesh	10095	0	215.6	67.1	0.2	825	0.00
	Telangana	10229	0	204.2	93.8	-0.3	712	0.00
	Karnataka	11922	0	241.6	73.1	-1.0	627	0.00
	Kerala	4115	0	81.6	65.5	0.8	291	0.00
	Tamil Nadu	16405	0	351.9	171.8	-4.1	308	0.00
	Puducherry	441	0	9.9	9.7	-0.5	64	0.00
ER	Bihar	6507	0	137.2	128.4	-2.1	481	2.72
	DVC	3663	0	75.9	-48.1	0.6	319	0.00
	Jharkhand	1694	0	34.4	28.7	-2.9	193	0.00
	Odisha	5628	0	116.7	46.7	-0.6	317	0.00
	West Bengal	9961	0	211.0	77.3	-1.4	351	0.00
	Sikkim	90	0	1.4	1.4	-0.1	29	0.00
	Railways_ER ISTS	11	0	0.1	0.2	-0.1	4	0.00
NER	Arunachal Pradesh	156	0	2.6	2.3	0.0	61	0.00
	Assam	1854	0	31.9	25.0	0.4	160	0.00
	Manipur	172	0	2.3	2.5	-0.2	25	0.00
	Meghalaya	305	11	4.7	1.3	-0.1	50	1.02
	Mizoram	109	0	1.6	1.6	-0.3	7	0.00
	Nagaland	152	0	2.7	2.5	-0.1	9	0.00
	Tripura	305	0	5.3	6.1	0.0	73	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	36.4	4.5	-25.5	-17.9
Day Peak (MW)	1786.1	237.6	-1109.0	-806.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	308.6	-227.5	90.5	-155.9	-15.6	0.0
Actual(MU)	271.3	-223.1	103.9	-143.7	-13.2	-4.8
O/D/U/D(MU)	-37.3	4.4	13.4	12.2	2.4	-4.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	1335	7490	5598	1810	565	16798	45
State Sector	4925	10007	3978	1510	321	20740	55
Total	6260	17497	9576	3320	886	37538	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	797	1490	654	660	14	3615	69
Lignite	32	17	61	0	0	110	2
Hydro	386	33	48	115	30	613	12
Nuclear	29	44	51	0	0	125	2
Gas, Naptha & Diesel	47	54	6	0	28	135	3
RES (Wind, Solar, Biomass & Others)	191	181	253	3	1	629	12
Total	1482	1820	1074	778	72	5227	100

Share of RES in total generation (%)	12.91	9.97	23.58	0.37	0.90	12.07
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	40.95	14.21	32.79	15.48	42.35	26.22

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.042
Based on State Max Demands	1.062

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	215225	15:02	604
Non-Solar hr	215159	22:25	1075

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: 23-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	1000	0.0	23.1	-23.1
2	HVDC	PUSAULI B/B	-	0	97	0.0	2.5	-2.5
3	765 kV	GAYA-VARANASI	2	372	459	0.0	3.2	-3.2
4	765 kV	SASARAM-FATEHPUR	1	119	490	0.0	5.9	-5.9
5	765 kV	GAYA-BALIA	1	0	887	0.0	14.3	-14.3
6	400 kV	PUSAULI-VARANASI	1	0	114	0.0	1.5	-1.5
7	400 kV	PUSAULI -ALLAHABAD	1	9	90	0.0	0.8	-0.8
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	1094	0.0	17.2	-17.2
9	400 kV	PATNA-BALIA	2	0	624	0.0	9.5	-9.5
10	400 kV	NAUBATPUR-BALIA	2	0	871	0.0	13.4	-13.4
11	400 kV	BIHARSHARIFF-BALIA	2	0	582	0.0	9.0	-9.0
12	400 kV	MOTTHARI-GORAKHPUR	2	0	617	0.0	9.2	-9.2
13	400 kV	BIHARSHARIFF-VARANASI	2	181	394	0.0	3.8	-3.8
14	220 kV	SAHUPURI-KARAMNANA	1	17	173	0.0	2.4	-2.4
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	25	0	0.5	0.0	0.5
17	132 kV	KARMANASA-SAHUPURI	1	0	61	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
ER-NR						0.5	115.8	-115.2
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1590	0	20.1	0.0	20.1
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1153	239	11.5	0.0	11.5
3	765 kV	JHARSUGUDA-DURG	2	0	449	0.0	4.6	-4.6
4	400 kV	JHARSUGUDA-RAIGARH	4	0	481	0.0	5.4	-5.4
5	400 kV	RANCHI-SIPAT	2	192	287	0.5	0.0	0.5
6	220 kV	BUDHIPADAR-RAIGARH	1	42	44	0.0	0.0	0.0
7	220 kV	BUDHIPADAR-KORBA	2	159	0	2.8	0.0	2.8
ER-WR						34.9	10.0	24.9
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	436	0.0	10.0	-10.0
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1977	0.0	33.3	-33.3
3	765 kV	ANGUL-SRIKAKULAM	2	0	3094	0.0	46.3	-46.3
4	400 kV	TALCHER-I/C	2	176	705	0.0	0.9	-0.9
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	89.6	-89.6
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	184	341	0.0	0.8	-0.8
2	400 kV	ALIPURDUAR-BONGAIGAON	2	441	301	3.2	0.0	3.2
3	220 kV	ALIPURDUAR-SALAKATI	2	58	94	0.0	0.2	-0.2
ER-NER						3.2	1.0	2.3
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	502	0.0	12.1	-12.1
NER-NR						0.0	12.1	-12.1
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	4537	0.0	64.5	-64.5
2	HVDC	VINDHYACHAL B/B	-	448	0	7.1	0.0	7.1
3	HVDC	MUNDRA-MOHINDERGARH	2	0	152	0.0	3.5	-3.5
4	765 kV	GWALIOR-AGRA	2	212	2261	0.1	28.1	-28.0
5	765 kV	GWALIOR-PHAGI	2	573	1311	2.4	14.8	-12.3
6	765 kV	JABALPUR-ORAI	2	0	1133	0.0	27.7	-27.7
7	765 kV	GWALIOR-ORAI	1	535	0	8.7	0.0	8.7
8	765 kV	SATNA-ORAI	1	0	1109	0.0	20.9	-20.9
9	765 kV	BANASKANTHA-CHITORGARH	2	1454	715	13.8	3.2	10.7
10	765 kV	VINDHYACHAL-VARANASI	2	0	3373	0.0	60.7	-60.7
11	400 kV	ZERDA-KANKROLI	1	278	91	3.2	0.3	2.9
12	400 kV	ZERDA -BHINMAL	1	695	57	8.0	0.0	8.0
13	400 kV	VINDHYACHAL -RIHAND	1	951	0	22.0	0.0	22.0
14	400 kV	RAPP-SHUJALPUR	2	558	392	4.6	2.6	2.0
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.4	-2.4
17	220 kV	MEHGAON-AURAIYA	1	112	0	1.3	0.0	1.3
18	220 kV	MALANPUR-AURAIYA	1	87	0	0.8	0.0	0.8
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						72.0	228.6	-156.7
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	304	0.0	7.2	-7.2
2	HVDC	RAIGARH-PUGALUR	2	0	3007	0.0	38.6	-38.6
3	765 kV	SOLAPUR-RAICHUR	2	1475	2032	10.0	6.0	4.0
4	765 kV	WARDHA-NIZAMABAD	2	0	2767	0.0	34.7	-34.7
5	400 kV	KOLHAPUR-KUDGI	2	1473	0	25.6	0.0	25.6
6	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
7	220 kV	PONDA-AMBEWADI	1	2	0	0.0	0.0	0.0
8	220 kV	XELDEM-AMBEWADI	1	0	124	2.4	0.0	2.4
WR-SR						38.0	86.5	-48.5

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)	639	465	583	13.98	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	1058	748	871	20.90	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	145	65	105	2.52	
	NER	132kV GELEPHU-SALAKATI	-16	-3	-9	-0.23	
	NER	132kV MOTANGA-RANGIA	-54	-15	-32	-0.76	
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-74	0	-52	-1.25	
	ER	NEPAL IMPORT (FROM BIHAR)	-46	0	-29	-0.70	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	358	136	268	6.43	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-926	-796	-898	-21.55	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-806	-677	-746	-17.89	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-183	0	-164	-3.94	