



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: 07th July 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 06.07.2023.

महोदय/Dear Sir,

आईंईंजींसीं-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 06-जुलाई-2023 की अखिल भारतीय प्रणाली की दैनिक ग्रीड निष्पादन रिपोर्ट रांभांप्रेंकें 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 06th July 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 07-Jul-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)	64081	54429	44142	26259	3299	192210
Peak Shortage (MW)	20	0	0	0	13	33
Energy Met (MU)	1429	1284	1045	568	62	4387
Hydro Gen (MU)	386	38	46	125	24	619
Wind Gen (MU)	13	71	268	-	-	352
Solar Gen (MU)*	108.99	39.39	82.74	2.17	0.87	234
Energy Shortage (MU)	0.53	0.00	0.00	0.12	1.29	1.94
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	65536	56085	49122	27142	3354	193038
Time Of Maximum Demand Met	22:04	10:18	09:45	00:00	19:39	11:51

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	0.047	0.00	0.22	4.99	5.21	68.35	26.44

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	10345	0	213.1	136.8	-5.4	236	0.00
	Haryana	10449	0	224.7	177.1	-0.8	267	0.00
	Rajasthan	13215	0	274.8	100.7	-1.1	539	0.00
	Delhi	5989	0	123.5	119.4	-3.0	115	0.00
	UP	23711	0	458.0	226.4	-1.9	319	0.00
	Uttarakhand	2027	0	42.4	19.2	-0.7	161	0.00
	HP	1590	0	33.1	-11.1	-0.4	90	0.48
	J&K(UT) & Ladakh(UT)	2432	25	49.6	22.3	0.6	183	0.05
	Chandigarh	319	0	6.2	6.5	-0.3	18	0.00
Railways_NR ISTS	171	0	3.5	3.5	0.0	20	0.00	
WR	Chhattisgarh	4877	0	106.4	57.1	-1.4	231	0.00
	Gujarat	16715	0	367.8	189.2	-1.2	840	0.00
	MP	10382	0	229.4	125.2	-4.0	505	0.00
	Maharashtra	22248	0	508.2	173.3	-1.0	553	0.00
	Goa	608	0	12.1	11.9	-0.3	39	0.00
	DNHDDPDCL	1301	0	30.2	30.2	0.0	48	0.00
	AMNSIL	792	0	17.3	10.3	0.3	258	0.00
	BALCO	520	0	12.4	12.5	-0.1	6	0.00
	Andhra Pradesh	9129	0	201.3	25.4	-1.8	509	0.00
SR	Telangana	11078	0	217.4	109.4	-0.4	700	0.00
	Karnataka	10630	0	203.1	52.4	-3.6	402	0.00
	Kerala	3565	0	68.8	48.6	1.0	274	0.00
	Tamil Nadu	16175	0	345.1	138.1	-5.4	528	0.00
	Puducherry	417	0	9.5	8.7	0.1	57	0.00
	Bihar	6609	0	132.1	125.2	-2.7	252	0.12
ER	DVC	3349	0	73.5	-30.7	-0.4	381	0.00
	Jharkhand	1689	0	36.0	28.9	-1.9	100	0.00
	Odisha	6145	0	117.2	39.2	-1.9	341	0.00
	West Bengal	9615	0	207.3	89.5	-2.6	125	0.00
	Sikkim	89	0	1.4	1.5	-0.1	12	0.00
	Railways_ER ISTS	14	0	0.2	0.3	0.0	3	0.00
	Arunachal Pradesh	164	0	2.6	2.4	0.0	34	0.00
NER	Assam	2222	0	41.8	34.9	0.7	177	0.00
	Manipur	176	0	2.4	2.6	-0.2	24	0.00
	Meghalaya	330	13	5.0	1.3	0.0	48	1.29
	Mizoram	104	0	1.5	1.5	-0.4	10	0.00
	Nagaland	162	0	2.6	2.4	-0.1	33	0.00
	Tripura	307	0	5.7	4.9	0.5	37	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	40.0	6.9	-25.4	-16.1
Day Peak (MW)	1854.0	84.1	-1081.0	-796.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	276.0	-210.3	34.7	-105.3	4.9	0.0
Actual(MU)	253.5	-205.3	39.2	-101.5	7.9	-6.2
O/D/U/D(MU)	-22.5	5.0	4.5	3.8	3.1	-6.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	2614	8378	7768	1500	668	20927	40
State Sector	8340	13347	7213	2200	251	31351	60
Total	10953	21725	14981	3700	919	52278	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	680	1381	558	609	13	3241	68
Lignite	21	14	47	0	0	81	2
Hydro	386	38	46	125	24	619	13
Nuclear	25	45	46	0	0	116	2
Gas, Naptha & Diesel	14	24	7	0	22	68	1
RES (Wind, Solar, Biomass & Others)	130	112	369	3	1	615	13
Total	1257	1614	1072	737	60	4741	100

Share of RES in total generation (%)	10.37	6.93	34.40	0.47	1.44	13.01
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	43.08	12.10	42.97	17.72	41.85	28.58

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.042
Based on State Max Demands	1.086

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	193038	11:51	138
Non-Solar hr	192017	19:53	233

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: 07-Jul-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	1502	0.0	36.8	-36.8
2	HVDC	PUSAULI B/B	-	0	245	0.0	3.5	-3.5
3	765 kV	GAYA-VARANASI	2	716	248	3.8	0.0	3.8
4	765 kV	SASARAM-FATEHPUR	1	170	194	0.0	0.1	-0.1
5	765 kV	GAYA-BALIA	1	0	658	0.0	10.9	-10.9
6	400 kV	PUSAULI-VARANASI	1	0	172	0.0	2.1	-2.1
7	400 kV	PUSAULI -ALLAHABAD	1	0	89	0.0	1.3	-1.3
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	643	0.0	9.2	-9.2
9	400 kV	PATNA-BALIA	2	0	525	0.0	8.8	-8.8
10	400 kV	NAUBATPUR-BALIA	2	0	558	0.0	8.7	-8.7
11	400 kV	BIHARSHARIFF-BALIA	2	59	246	0.0	3.3	-3.3
12	400 kV	MOTTHARI-GORAKHPUR	2	0	363	0.0	5.4	-5.4
13	400 kV	BIHARSHARIFF-VARANASI	2	262	100	1.0	0.0	1.0
14	220 kV	SAHUPURI-KARAMNANA	1	9	90	0.0	1.0	-1.0
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	25	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
ER-NR						5.6	91.1	-85.5
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1558	341	15.4	0.0	15.4
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1580	297	24.7	0.0	24.7
3	765 kV	JHARSUGUDA-DURG	2	124	552	0.0	4.0	-4.0
4	400 kV	JHARSUGUDA-RAIGARH	4	0	397	0.0	3.9	-3.9
5	400 kV	RANCHI-SIPAT	2	338	171	4.0	0.0	4.0
6	220 kV	BUDHIPADAR-RAIGARH	1	0	73	0.0	2.4	-2.4
7	220 kV	BUDHIPADAR-KORBA	2	101	0	1.3	0.0	1.3
ER-WR						45.4	10.2	35.2
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	459	0.0	10.2	-10.2
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	791	0.0	19.3	-19.3
3	765 kV	ANGUL-SRIKAKULAM	2	0	2646	0.0	40.4	-40.4
4	400 kV	TALCHER-I/C	2	626	38	11.4	0.0	11.4
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	69.9	-69.9
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	482	0.0	7.9	-7.9
2	400 kV	ALIPURDUAR-BONGAIGAON	2	141	406	0.0	4.2	-4.2
3	220 kV	ALIPURDUAR-SALAKATI	2	0	125	0.0	1.8	-1.8
ER-NER						0.0	13.8	-13.8
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	308	0.0	7.4	-7.4
NER-NR						0.0	7.4	-7.4
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	5032	0.0	82.3	-82.3
2	HVDC	VINDHYACHAL B/B	-	444	0	11.4	0.0	11.4
3	HVDC	MUNDRA-MOHINDERGARH	2	0	257	3.7	0.0	3.7
4	765 kV	GWALIOR-AGRA	2	389	1636	0.2	20.7	-20.5
5	765 kV	GWALIOR-PHAGI	2	9	1451	0.0	21.4	-21.4
6	765 kV	JABALPUR-ORAI	2	0	944	0.0	24.6	-24.6
7	765 kV	GWALIOR-ORAI	1	584	0	11.0	0.0	11.0
8	765 kV	SATNA-ORAI	1	0	949	0.0	19.2	-19.2
9	765 kV	BANASKANTHA-CHITORGARH	2	1321	43	17.3	0.0	17.3
10	765 kV	VINDHYACHAL-VARANASI	2	0	3538	0.0	67.2	-67.2
11	400 kV	ZERDA-KANKROLI	1	197	25	2.5	0.0	2.5
12	400 kV	ZERDA -BHINMAL	1	314	68	3.8	0.1	3.7
13	400 kV	VINDHYACHAL -RIHAND	1	954	0	21.6	0.0	21.6
14	400 kV	RAPP-SHUJALPUR	2	115	516	0.4	4.0	-3.6
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	106	2	1.1	0.0	1.1
18	220 kV	MALANPUR-AURAIYA	1	78	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						73.9	241.8	-167.9
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	995	0	14.1	0.0	14.1
2	HVDC	RAIGARH-PUGALUR	2	574	3004	0.0	16.6	-16.6
3	765 kV	SOLAPUR-RAICHUR	2	2039	1011	16.0	2.4	13.6
4	765 kV	WARDHA-NIZAMABAD	2	0	2927	0.0	38.1	-38.1
5	400 kV	KOLHAPUR-KUDGI	2	1395	0	22.9	0.0	22.9
6	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
7	220 kV	PONDA-AMBEWADI	1	0	0	0.0	0.0	0.0
8	220 kV	XELDEM-AMBEWADI	1	0	113	2.1	0.0	2.1
WR-SR						55.0	57.1	-2.2

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)	659	570	599	14.37	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	1028	963	981	23.53	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	197	119	153	3.67	
	NER	132kV GELEPHU-SALAKATI	-38	-1	-27	-0.64	
	NER	132kV MOTANGA-RANGIA	-60	-24	-40	-0.95	
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-62	0	-26	-0.63	
	ER	NEPAL IMPORT (FROM BIHAR)	-21	-17	-20	-0.49	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	167	0	167	8.02	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-923	-919	-922	-22.13	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-796	-504	-671	-16.10	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-158	0	-135	-3.24	

