



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: 08th 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., डोंगतेिह, 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 07.07.2023.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 07-जुलाई-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 07th July 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 08-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)	66943	53624	43659	26048	3308	193582
Peak Shortage (MW)	0	0	0	0	20	20
Energy Met (MU)	1461	1257	1069	553	63	4404
Hydro Gen (MU)	388	30	53	120	30	621
Wind Gen (MU)	12	94	240	-	-	347
Solar Gen (MU)*	103.23	33.96	89.01	2.35	0.93	229
Energy Shortage (MU)	0.54	0.00	0.00	0.50	0.96	2.00
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	67568	55561	50534	26573	3365	193700
Time Of Maximum Demand Met	22:20	19:37	10:43	00:09	19:29	12:22

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	0.039	0.00	0.10	4.83	4.93	72.86	22.21

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	11566	0	239.1	157.0	-2.4	202	0.00
	Haryana	10831	0	233.4	177.2	0.1	214	0.00
	Rajasthan	12424	37	260.1	96.2	-0.1	394	0.54
	Delhi	6099	0	125.0	120.9	-2.1	105	0.00
	UP	24223	0	464.3	236.6	-2.5	429	0.00
	Uttarakhand	2070	0	43.9	20.0	-0.2	175	0.00
	HP	1725	0	35.0	-9.8	0.3	110	0.00
	J&K(UT) & Ladakh(UT)	2456	0	50.3	22.8	0.8	218	0.00
	Chandigarh	311	0	6.4	6.6	-0.2	26	0.00
Railways_NR ISTS	161	0	3.5	3.5	-0.1	8	0.00	
WR	Chhattisgarh	4447	0	100.0	50.4	-1.6	248	0.00
	Gujarat	16056	0	363.3	183.1	-1.6	652	0.00
	MP	10043	0	219.1	117.1	-2.4	352	0.00
	Maharashtra	22492	0	503.9	168.6	-1.7	498	0.00
	Goa	603	0	12.2	12.1	-0.4	59	0.00
	DNHDDPDCL	1286	0	30.0	29.9	0.1	48	0.00
	AMNSIL	772	0	16.4	8.9	0.5	303	0.00
	BALCO	520	0	12.4	12.5	-0.1	8	0.00
SR	Andhra Pradesh	9823	0	207.7	39.6	-0.2	714	0.00
	Telangana	11496	0	218.0	99.6	1.5	678	0.00
	Karnataka	10636	0	203.7	46.2	-0.2	767	0.00
	Kerala	3600	0	71.3	49.3	1.3	262	0.00
	Tamil Nadu	16465	0	358.4	162.4	-5.7	710	0.00
	Puducherry	447	0	10.1	9.4	0.0	64	0.00
ER	Bihar	6466	0	128.5	126.0	-2.9	232	0.50
	DVC	3349	0	73.3	-30.8	-0.5	212	0.00
	Jharkhand	1679	0	35.3	28.0	-1.5	150	0.00
	Odisha	6098	0	120.2	40.2	-0.7	282	0.00
	West Bengal	9197	0	194.3	83.8	-2.1	385	0.00
	Sikkim	85	0	1.3	1.5	-0.2	9	0.00
	Railways_ER ISTS	20	0	0.3	0.3	0.0	8	0.00
NER	Arunachal Pradesh	149	0	2.6	2.5	-0.1	49	0.00
	Assam	2226	0	42.8	35.8	0.6	378	0.00
	Manipur	183	0	2.6	2.6	0.0	25	0.00
	Meghalaya	339	0	5.2	1.4	-0.2	63	0.96
	Mizoram	102	0	1.6	1.6	-0.4	4	0.00
	Nagaland	152	0	2.8	2.5	-0.2	16	0.00
	Tripura	298	0	5.5	4.9	0.2	43	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	40.6	7.6	-25.3	-14.1
Day Peak (MW)	1885.0	311.1	-1082.0	-807.5

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	311.3	-250.9	50.0	-110.9	0.6	0.0
Actual(MU)	290.2	-264.8	71.6	-107.7	4.5	-6.0
O/D/U/D(MU)	-21.1	-13.8	21.6	3.3	4.0	-6.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3750	8619	7268	1500	668	21806	43
State Sector	6655	13759	5523	2310	251	28498	57
Total	10405	22378	12791	3810	919	50303	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	682	1398	565	611	12	3267	69
Lignite	19	14	47	0	0	79	2
Hydro	388	30	53	120	30	621	13
Nuclear	25	46	47	0	0	118	2
Gas, Naptha & Diesel	18	20	7	0	23	67	1
RES (Wind, Solar, Biomass & Others)	123	129	347	4	1	604	13
Total	1254	1636	1065	735	65	4756	100

Share of RES in total generation (%)	9.80	7.89	32.61	0.52	1.42	12.70
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	42.68	12.55	41.95	16.91	47.41	28.23

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.051
Based on State Max Demands	1.088

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	193700	12:22	4
Non-Solar hr	193393	19:58	0

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: 08-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	1501	0.0	36.1	-36.1
2	HVDC	PUSAULI B/B	-	0	146	0.0	3.7	-3.7
3	765 kV	GAYA-VARANASI	2	555	213	3.1	0.0	3.1
4	765 kV	SASARAM-FATEHPUR	1	131	142	0.1	0.0	0.1
5	765 kV	GAYA-BALIA	1	0	714	0.0	11.3	-11.3
6	400 kV	PUSAULI-VARANASI	1	0	114	0.0	2.1	-2.1
7	400 kV	PUSAULI -ALLAHABAD	1	0	95	0.0	1.3	-1.3
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	599	0.0	10.0	-10.0
9	400 kV	PATNA-BALIA	2	0	521	0.0	8.8	-8.8
10	400 kV	NAUBATPUR-BALIA	2	0	551	0.0	9.2	-9.2
11	400 kV	BIHARSHARIFF-BALIA	2	0	231	0.0	2.9	-2.9
12	400 kV	MOTTHARI-GORAKHPUR	2	0	372	0.0	5.9	-5.9
13	400 kV	BIHARSHARIFF-VARANASI	2	217	91	1.1	0.0	1.1
14	220 kV	SAHUPURI-KARAMNANA	1	9	87	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	0.7	0.0	0.7
17	132 kV	KARMANASA-SAHUPURI	1	0	42	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
ER-NR						5.0	92.3	-87.3
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	910	163	11.3	0.0	11.3
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1500	414	22.3	0.0	22.3
3	765 kV	JHARSUGUDA-DURG	2	33	638	0.0	6.3	-6.3
4	400 kV	JHARSUGUDA-RAIGARH	4	52	247	0.0	2.0	-2.0
5	400 kV	RANCHI-SIPAT	2	363	164	8.1	0.0	8.1
6	220 kV	BUDHIPADAR-RAIGARH	1	0	44	0.0	1.7	-1.7
7	220 kV	BUDHIPADAR-KORBA	2	148	0	1.5	0.0	1.5
ER-WR						43.3	9.9	33.4
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	462	0.0	10.3	-10.3
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	794	0.0	19.3	-19.3
3	765 kV	ANGUL-SRIKAKULAM	2	0	2868	0.0	42.9	-42.9
4	400 kV	TALCHER-I/C	2	624	18	12.2	0.0	12.2
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	72.5	-72.5
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	557	0.0	8.8	-8.8
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	345	0.0	4.1	-4.1
3	220 kV	ALIPURDUAR-SALAKATI	2	0	139	0.0	1.9	-1.9
ER-NER						0.0	14.9	-14.9
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	504	0.0	11.9	-11.9
NER-NR						0.0	11.9	-11.9
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	5043	0.0	90.0	-90.0
2	HVDC	VINDHYACHAL B/B	-	442	0	6.0	0.0	6.0
3	HVDC	MUNDRA-MOHINDERGARH	2	265	0	4.2	0.0	4.2
4	765 kV	GWALIOR-AGRA	2	324	2035	0.2	24.3	-24.2
5	765 kV	GWALIOR-PHAGI	2	0	1502	0.0	22.8	-22.8
6	765 kV	JABALPUR-ORAI	2	0	1044	0.0	27.7	-27.7
7	765 kV	GWALIOR-ORAI	1	558	0	10.6	0.0	10.6
8	765 kV	SATNA-ORAI	1	0	1037	0.0	19.7	-19.7
9	765 kV	BANASKANTHA-CHITORGARH	2	1184	735	10.9	2.4	8.5
10	765 kV	VINDHYACHAL-VARANASI	2	0	3466	0.0	65.5	-65.5
11	400 kV	ZERDA-KANKROLI	1	183	130	1.6	0.4	1.2
12	400 kV	ZERDA-BHINMAL	1	383	217	3.6	0.6	3.0
13	400 kV	VINDHYACHAL -RIHAND	1	961	0	21.7	0.0	21.7
14	400 kV	RAPP-SHUJALPUR	2	142	574	0.3	4.4	-4.1
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.3	-2.3
17	220 kV	MEHGAON-AURAIYA	1	114	0	1.4	0.0	1.4
18	220 kV	MALANPUR-AURAIYA	1	93	6	1.1	0.0	1.1
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						61.6	260.2	-198.6
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	995	0	15.7	0.0	15.7
2	HVDC	RAIGARH-PUGALUR	2	0	3007	0.0	39.4	-39.4
3	765 kV	SOLAPUR-RAICHUR	2	1831	1872	11.6	4.3	7.3
4	765 kV	WARDHA-NIZAMABAD	2	0	3124	0.0	40.2	-40.2
5	400 kV	KOLHAPUR-KUDGI	2	1390	0	21.7	0.0	21.7
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	121	2.1	0.0	2.1
WR-SR						51.1	83.9	-32.8

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)	0	0	0	14.63	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	0	0	0	23.53	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	3.93	
	NER	132kV GELEPHU-SALAKATI	-39	0	-32	-0.76	
	NER	132kV MOTANGA-RANGIA	-54	18	-29	-0.69	
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-64	0	-31	-0.75	
	ER	NEPAL IMPORT (FROM BIHAR)	-32	0	-7	-0.17	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	407	242	356	8.54	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-934	-919	-928	-22.26	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-808	-444	-586	-14.07	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-148	0	-125	-3.00	