National Load Despatch Centre
राष्ट्रीय भार प्रेषण केंद्र
POWER SYSTEM OPERATION CORPORATION LIMITED
पॉवर सिस्टम ऑपरेशन कारपोरेशन 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: 27th July 2022

To,

1. कार्यकारी निदेशक, पू.क्षे .भा .प्रे .के.,14 , गोल्फ क्लब रोड , कोलकाता - 700033
   Executive Director, ERLDC, 14 Golf Club Road, Tollygunge, Kolkata, 700033
2. 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
3. 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
4. कार्यकारी निदेशक, ऊ. पू. क्षे. भा. प्रे. के., डोंगतिएह, लोअर नोंग्रह , लापलंग, शिलोंग – 793006
   Executive Director, NERLDC, Dongteih, Lower Nongrah, Lapalang, Shillong - 793006, Meghalaya
5. 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 26.07.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 26-जुलाई-2022 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा०भा०प्रे०के० की वेबसाइट पर उप्लब्ध 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 26th July 2022, is available at the NLDC website.

धन्यवाद,

पॉवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड
राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली

Report for previous day **Date of Reporting:** **27-Jul-2022**

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)	62211	50772	41758	24743	3144	182628
Peak Shortage (MW)	15	0	261	392	0	668
Energy Met (MU)	1406	1150	959	542	57	4114
Hydro Gen (MU)	364	108	164	133	35	805
Wind Gen (MU)	17	97	50	-	-	164
Solar Gen (MU)*	60.26	24.78	66.00	4.79	0.40	156
Energy Shortage (MU)	4.03	0.00	0.62	2.44	0.00	7.09
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	65498	50789	45016	25366	3187	183131
Time Of Maximum Demand Met (From NLDC SCADA)	22:12	19:39	10:23	20:00	19:23	19:54

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	0.036	0.00	1.19	7.08	8.27	83.96	7.77

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	12575	0	279.2	166.8	-1.9	56	0.00
	Haryana	10018	0	216.5	134.3	0.1	251	0.00
	Rajasthan	9373	0	206.7	48.4	-2.1	353	0.61
	Delhi	5876	0	121.3	110.0	-0.9	160	0.00
	UP	22804	220	449.6	190.2	1.9	536	2.25
	Uttarakhand	2183	0	45.9	24.1	1.0	167	1.11
	HP	1592	0	32.2	-9.4	0.0	141	0.06
	J&K(UT) & Ladakh(UT)	2551	0	47.5	27.7	-5.7	130	0.00
	Chandigarh	345	0	7.1	7.0	0.1	44	0.00
WR	Chhattisgarh	4272	0	98.3	52.2	-0.1	310	0.00
	Gujarat	14778	0	326.8	186.3	-2.3	689	0.00
	MP	9261	0	207.3	71.9	0.0	359	0.00
	Maharashtra	21129	0	460.6	173.3	-0.2	942	0.00
	Goa	594	0	12.1	12.3	-0.2	31	0.00
	DNHDDPDCL	1172	0	26.8	26.7	0.1	62	0.00
	AMNSIL	786	0	18.1	11.7	-0.2	267	0.00
SR	Andhra Pradesh	8351	0	185.3	66.3	2.8	1179	0.62
	Telangana	9936	0	182.1	86.3	1.1	847	0.00
	Karnataka	10173	0	195.0	64.8	4.0	1173	0.00
	Kerala	3530	0	73.6	37.7	-0.5	308	0.00
	Tamil Nadu	14665	0	313.5	159.0	2.6	1043	0.00
	Puducherry	416	0	9.3	8.6	0.0	44	0.00
ER	Bihar	6300	482	125.7	119.5	0.1	270	0.97
	DVC	3499	0	75.5	-38.0	-0.4	276	0.00
	Jharkhand	1570	0	32.1	24.0	-0.6	178	1.47
	Odisha	6077	0	125.7	55.2	0.3	485	0.00
	West Bengal	8989	0	181.5	56.4	1.2	508	0.00
	Sikkim	98	0	1.6	1.5	0.1	17	0.00
NER	Arunachal Pradesh	137	0	2.4	2.0	0.0	23	0.00
	Assam	2109	0	37.7	29.7	-0.5	115	0.00
	Manipur	189	0	2.5	2.6	0.0	26	0.00
	Meghalaya	336	0	6.0	0.3	0.1	36	0.00
	Mizoram	109	0	1.7	0.9	-0.1	6	0.00
	Nagaland	154	0	2.6	2.3	0.0	14	0.00
	Tripura	276	0	4.4	4.5	-0.3	30	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	34.1	7.0	-25.0
Day Peak (MW)	1855.0	318.0	-1072.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	224.5	-142.3	66.3	-132.7	-15.8	0.0
Actual(MU)	200.7	-148.0	99.6	-142.6	-18.7	-9.0
O/D/U/D(MU)	-23.8	-5.7	33.3	-9.8	-3.0	-9.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3772	17351	8058	2065	309	31554	44
State Sector	7310	18879	10680	2840	99	39807	56
Total	11082	36229	18738	4905	408	71361	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	759	1032	464	582	18	2855	66
Lignite	26	10	59	0	0	94	2
Hydro	367	108	164	133	35	807	19
Nuclear	25	40	46	0	0	111	3
Gas, Naptha & Diesel	19	5	9	0	30	64	1
RES (Wind, Solar, Biomass & Others)	95	123	151	5	0	374	9
Total	1290	1318	894	720	83	4305	100

Share of RES in total generation (%)	7.34	9.33	16.92	0.66	0.48	8.69
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	37.66	20.61	40.45	19.13	42.64	30.02

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.037
Based on State Max Demands	1.071

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

***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: 27-Jul-2022

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	752	0.0	18.3	-18.3
2	HVDC	PUSAULI B/B	-	0	49	0.0	1.1	-1.1
3	765 kV	GAYA-VARANASI	2	60	314	0.0	3.4	-3.4
4	765 kV	SASARAM-FATEHPUR	1	0	231	0.0	3.6	-3.6
5	765 kV	GAYA-BALIA	1	0	604	0.0	9.5	-9.5
6	400 kV	PUSAULI-VARANASI	1	10	45	0.0	0.4	-0.4
7	400 kV	PUSAULI -ALLAHABAD	1	0	67	0.0	0.8	-0.8
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	850	0.0	16.1	-16.1
9	400 kV	PATNA-BALIA	2	0	617	0.0	13.6	-13.6
10	400 kV	NAUBATPUR-BALIA	2	0	658	0.0	14.4	-14.4
11	400 kV	BIHARSHARIFF-BALIA	2	0	534	0.0	8.3	-8.3
12	400 kV	MOTIHARI-GORAKHPUR	2	0	448	0.0	8.8	-8.8
13	400 kV	BIHARSHARIFF-VARANASI	2	33	173	0.0	2.0	-2.0
14	220 kV	SAHUPURI-KARAMNASA	1	0	141	0.0	1.7	-1.7
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	63	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	0.5	102.0	-101.6
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	629	0	3.3	0.0	3.3
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	597	660	0.3	0.0	0.3
3	765 kV	JHARSUGUDA-DURG	2	0	314	0.0	4.8	-4.8
4	400 kV	JHARSUGUDA-RAIGARH	4	0	312	0.0	4.5	-4.5
5	400 kV	RANCHI-SIPAT	2	122	256	0.0	0.7	-0.7
6	220 kV	BUDHIPADAR-RAIGARH	1	41	85	0.0	0.9	-0.9
7	220 kV	BUDHIPADAR-KORBA	2	110	31	0.7	0.0	0.7
					ER-WR	4.3	10.9	-6.6
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	586	0	14.5	0.0	14.5
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1976	0.0	40.6	-40.6
3	765 kV	ANGUL-SRIKAKULAM	2	0	3300	0.0	55.5	-55.5
4	400 kV	TALCHER-I/C	2	265	140	3.8	0.0	3.8
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
					ER-SR	14.5	96.1	-81.6
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	163	181	0.9	0.9	0.0
2	400 kV	ALIPURDUAR-BONGAIGAON	2	347	148	2.8	0.0	2.8
3	220 kV	ALIPURDUAR-SALAKATI	2	42	57	0.0	0.1	-0.1
					ER-NER	3.7	0.9	2.8
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	704	0.0	17.2	-17.2
					NER-NR	0.0	17.2	-17.2
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2046	0.0	39.3	-39.3
2	HVDC	VINDHYACHAL B/B	-	441	0	12.1	0.0	12.1
3	HVDC	MUNDRA-MOHINDERGARH	2	0	310	0.0	7.3	-7.3
4	765 kV	GWALIOR-AGRA	2	379	1558	0.3	17.6	-17.3
5	765 kV	GWALIOR-PHAGI	2	32	1218	0.0	17.0	-17.0
6	765 kV	JABALPUR-ORAI	2	94	732	0.0	17.6	-17.6
7	765 kV	GWALIOR-ORAI	1	507	0	9.2	0.0	9.2
8	765 kV	SATNA-ORAI	1	0	960	0.0	18.8	-18.8
9	765 kV	BANASKANTHA-CHITORGARH	2	1331	0	17.2	0.0	17.2
10	765 kV	VINDHYACHAL-VARANASI	2	0	2602	0.0	44.0	-44.0
11	400 kV	ZERDA-KANKROLI	1	327	0	4.6	0.0	4.6
12	400 kV	ZERDA -BHINMAL	1	605	0	7.8	0.0	7.8
13	400 kV	VINDHYACHAL -RIHAND	1	961	0	21.8	0.0	21.8
14	400 kV	RAPP-SHUJALPUR	2	259	318	1.5	2.2	-0.7
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.8	-1.8
17	220 kV	MEHGAON-AURAIYA	1	110	0	0.0	1.7	-1.7
18	220 kV	MALANPUR-AURAIYA	1	81	0	0.0	1.0	-1.0
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	74.5	168.2	-93.7
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	496	0	9.1	0.0	9.1
2	HVDC	RAIGARH-PUGALUR	2	0	2501	0.0	40.4	-40.4
3	765 kV	SOLAPUR-RAICHUR	2	487	2499	0.7	15.0	-14.2
4	765 kV	WARDHA-NIZAMABAD	2	0	3542	0.0	46.8	-46.8
5	400 kV	KOLHAPUR-KUDGI	2	1347	0	24.1	0.0	24.1
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	104	2.0	0.0	2.0
					WR-SR	35.9	102.2	-66.3

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 MANGDECHU HEP 4*180MW)	588	0	542	13.0
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1108	0	1098	26.4
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	113	0	85	2.1
	NER	132kV GELEPHU-SALAKATI	-15	0	-9	-0.2
	NER	132kV MOTANGA-RANGIA	-54	-25	-36	-0.9
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-69	0	-50	-1.2
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.0
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	387	225	341	8.2
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-916	-866	-893	-21.4
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-156	0	-148	-3.6