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: 24th 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 23.07.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 23-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 23rd 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:** **24-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)	59112	50008	39872	24899	3008	176899
Peak Shortage (MW)	95	0	0	593	0	688
Energy Met (MU)	1332	1142	927	564	62	4028
Hydro Gen (MU)	330	96	141	129	32	728
Wind Gen (MU)	8	145	174	-	-	326
Solar Gen (MU)*	75.98	29.24	71.20	4.53	0.66	182
Energy Shortage (MU)	1.22	0.00	0.00	7.48	0.00	8.70
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	62215	49630	42926	26479	3067	179214
Time Of Maximum Demand Met (From NLDC SCADA)	21:36	09:46	09:40	21:41	19:39	19:46

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	0.040	0.00	0.42	7.44	7.86	72.61	19.53

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	10369	0	230.8	161.3	-1.6	112	0.00
	Haryana	8770	0	187.7	118.7	0.3	220	0.00
	Rajasthan	9970	0	222.3	56.0	-2.2	334	0.00
	Delhi	5485	0	110.2	104.5	-6.3	301	0.00
	UP	23233	0	449.9	200.6	1.5	647	0.00
	Uttarakhand	2145	0	45.1	22.7	0.2	165	0.77
	HP	1617	0	32.4	-5.1	1.2	214	0.45
	J&K(UT) & Ladakh(UT)	1815	0	47.3	25.6	-3.8	129	0.00
	Chandigarh	301	0	6.2	6.4	-0.3	21	0.00
WR	Chhattisgarh	4081	0	95.9	46.0	-0.1	470	0.00
	Gujarat	14992	0	332.2	186.9	-5.9	505	0.00
	MP	9294	0	206.1	66.6	0.0	577	0.00
	Maharashtra	20522	0	452.0	165.5	-2.9	669	0.00
	Goa	584	0	12.1	12.4	-0.4	28	0.00
	DNHDDPDCL	1127	0	26.2	26.2	0.0	44	0.00
	AMNSIL	794	0	17.7	11.3	0.0	263	0.00
SR	Andhra Pradesh	8657	0	186.8	50.4	-0.6	461	0.00
	Telangana	8245	0	163.5	62.9	-0.3	649	0.00
	Karnataka	9565	0	181.0	58.3	-0.4	604	0.00
	Kerala	3440	0	70.8	35.3	-0.3	219	0.00
	Tamil Nadu	14365	0	315.4	129.9	-3.9	405	0.00
	Puducherry	406	0	9.4	9.2	-0.4	26	0.00
ER	Bihar	6578	0	128.6	118.3	1.0	393	6.51
	DVC	3507	0	76.3	-34.8	0.0	354	0.00
	Jharkhand	1662	0	32.6	24.5	-1.0	225	0.96
	Odisha	6285	0	137.7	79.4	-0.3	333	0.00
	West Bengal	9131	0	187.6	73.2	-0.8	313	0.00
	Sikkim	84	0	1.4	1.5	-0.1	15	0.00
NER	Arunachal Pradesh	115	0	2.3	2.4	-0.4	27	0.00
	Assam	2024	0	41.5	34.4	0.2	128	0.00
	Manipur	192	0	2.7	2.7	0.0	11	0.00
	Meghalaya	294	0	5.8	0.0	0.0	75	0.00
	Mizoram	105	0	1.7	0.8	-0.1	50	0.00
	Nagaland	154	0	2.7	2.3	0.0	13	0.00
	Tripura	281	0	5.6	5.8	0.2	59	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	39.2	7.9	-25.3
Day Peak (MW)	1895.0	346.0	-1087.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	236.3	-156.4	-1.6	-70.3	-8.0	0.0
Actual(MU)	225.2	-149.2	-12.2	-61.4	-8.1	-5.6
O/D/U/D(MU)	-11.1	7.2	-10.6	8.9	-0.1	-5.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3682	16751	6738	2825	309	30304	42
State Sector	7370	18444	12285	3850	99	42047	58
Total	11052	35194	19023	6675	408	72351	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	696	997	411	524	15	2643	62
Lignite	27	12	59	0	0	98	2
Hydro	332	96	141	129	32	731	17
Nuclear	29	40	68	0	0	137	3
Gas, Naptha & Diesel	16	3	9	0	29	57	1
RES (Wind, Solar, Biomass & Others)	101	175	282	5	1	562	13
Total	1202	1323	969	658	78	4229	100

Share of RES in total generation (%)	8.38	13.22	29.06	0.69	0.85	13.30
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	38.50	23.50	50.57	20.37	42.25	33.82

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.028
Based on State Max Demands	1.061

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: 24-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	750	0.0	16.0	-16.0
2	HVDC	PUSAULI B/B	-	0	48	0.0	1.3	-1.3
3	765 kV	GAYA-VARANASI	2	746	146	4.3	0.0	4.3
4	765 kV	SASARAM-FATEHPUR	1	1	246	0.0	2.2	-2.2
5	765 kV	GAYA-BALIA	1	0	573	0.0	8.9	-8.9
6	400 kV	PUSAULI-VARANASI	1	1	44	0.0	0.6	-0.6
7	400 kV	PUSAULI -ALLAHABAD	1	0	58	0.0	0.6	-0.6
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	828	0.0	14.2	-14.2
9	400 kV	PATNA-BALIA	2	0	586	0.0	10.5	-10.5
10	400 kV	NAUBATPUR-BALIA	2	0	622	0.0	10.9	-10.9
11	400 kV	BIHARSHARIFF-BALIA	2	0	509	0.0	7.0	-7.0
12	400 kV	MOTIHARI-GORAKHPUR	2	0	463	0.0	7.2	-7.2
13	400 kV	BIHARSHARIFF-VARANASI	2	243	155	0.0	0.5	-0.5
14	220 kV	SAHUPURI-KARAMNASA	1	0	131	0.0	2.3	-2.3
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	25	0	0.4	0.0	0.4
17	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	4.7	82.2	-77.5
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	629	0	24.1	0.0	24.1
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1406	209	19.5	0.0	19.5
3	765 kV	JHARSUGUDA-DURG	2	0	314	0.3	0.0	0.3
4	400 kV	JHARSUGUDA-RAIGARH	4	0	312	2.7	0.0	2.7
5	400 kV	RANCHI-SIPAT	2	330	111	3.5	0.0	3.5
6	220 kV	BUDHIPADAR-RAIGARH	1	53	77	0.0	0.4	-0.4
7	220 kV	BUDHIPADAR-KORBA	2	166	4	1.7	0.0	1.7
					ER-WR	51.9	0.4	51.5
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	587	0	14.5	0.0	14.5
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1991	0.0	41.0	-41.0
3	765 kV	ANGUL-SRIKAKULAM	2	0	2782	0.0	45.2	-45.2
4	400 kV	TALCHER-I/C	2	276	574	2.7	0.0	2.7
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
					ER-SR	14.5	86.2	-71.8
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	40	285	0.0	3.2	-3.2
2	400 kV	ALIPURDUAR-BONGAIGAON	2	144	347	0.0	3.0	-3.0
3	220 kV	ALIPURDUAR-SALAKATI	2	0	97	0.0	1.3	-1.3
					ER-NER	0.0	7.5	-7.5
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	703	0.0	16.9	-16.9
					NER-NR	0.0	16.9	-16.9
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1534	0.0	36.4	-36.4
2	HVDC	VINDHYACHAL B/B	-	441	0	12.2	0.0	12.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	315	0.0	7.4	-7.4
4	765 kV	GWALIOR-AGRA	2	18	1775	0.0	26.1	-26.1
5	765 kV	GWALIOR-PHAGI	2	477	1194	0.0	14.9	-14.9
6	765 kV	JABALPUR-ORAI	2	0	808	0.0	23.0	-23.0
7	765 kV	GWALIOR-ORAI	1	500	0	7.9	0.0	7.9
8	765 kV	SATNA-ORAI	1	0	899	0.0	18.9	-18.9
9	765 kV	BANASKANTHA-CHITORGARH	2	1122	374	7.7	0.0	7.7
10	765 kV	VINDHYACHAL-VARANASI	2	0	3293	0.0	59.8	-59.8
11	400 kV	ZERDA-KANKROLI	1	247	62	2.3	0.0	2.3
12	400 kV	ZERDA -BHINMAL	1	349	87	3.4	0.0	3.4
13	400 kV	VINDHYACHAL -RIHAND	1	962	0	21.6	0.0	21.6
14	400 kV	RAPP-SHUJALPUR	2	265	441	0.0	3.2	-3.2
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.1	-2.1
17	220 kV	MEHGAON-AURAIYA	1	99	0	0.4	0.0	0.4
18	220 kV	MALANPUR-AURAIYA	1	69	8	1.0	0.0	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	56.5	191.7	-135.2
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	984	0	24.0	0.0	24.0
2	HVDC	RAIGARH-PUGALUR	2	1450	0	25.5	0.0	25.5
3	765 kV	SOLAPUR-RAICHUR	2	663	1358	0.0	3.8	-3.8
4	765 kV	WARDHA-NIZAMABAD	2	0	2801	0.0	36.6	-36.6
5	400 kV	KOLHAPUR-KUDGI	2	1436	0	26.3	0.0	26.3
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	102	1.9	0.0	1.9
					WR-SR	77.7	40.3	37.4

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)	600	0	532	12.8
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1095	0	976	23.4
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	278	0	170	4.1
	NER	132kV GELEPHU-SALAKATI	-39	-5	-12	-0.3
	NER	132kV MOTANGA-RANGIA	-45	0	-30	-0.7
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-66	0	-34	-0.8
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.0
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	412	131	365	8.8
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-919	-872	-894	-21.5
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-168	0	-159	-3.8