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: 29th 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 28.07.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 28-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 28th 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:** **29-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)	59410	52129	41711	24536	3109	180895
Peak Shortage (MW)	153	0	0	1386	86	1625
Energy Met (MU)	1380	1177	981	557	60	4155
Hydro Gen (MU)	358	113	155	133	35	795
Wind Gen (MU)	38	67	20	-	-	125
Solar Gen (MU)*	68.10	42.69	104.90	4.50	0.56	221
Energy Shortage (MU)	3.19	0.00	0.00	7.02	0.05	10.26
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	62628	52214	45320	25477	3262	182281
Time Of Maximum Demand Met (From NLDC SCADA)	00:00	19:44	12:22	23:00	18:59	20:51

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	0.051	0.74	1.40	9.95	12.09	78.05	9.86

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	12266	0	269.3	159.3	-2.0	43	0.00
	Haryana	9825	0	207.7	124.8	-0.2	204	0.00
	Rajasthan	9315	0	202.1	13.8	-5.0	376	0.08
	Delhi	5692	0	119.3	108.0	-0.6	226	0.00
	UP	22371	220	451.0	187.9	1.3	443	2.19
	Uttarakhand	2126	0	47.4	24.3	0.7	137	0.92
	HP	1604	0	33.4	-4.0	-0.1	180	0.00
	J&K(UT) & Ladakh(UT)	1909	0	43.0	24.8	-7.4	167	0.00
	Chandigarh	355	0	6.8	7.2	-0.3	17	0.00
WR	Chhattisgarh	4396	0	105.0	57.9	0.1	281	0.00
	Gujarat	15330	0	328.8	189.8	3.5	945	0.00
	MP	9813	0	218.8	96.5	0.0	425	0.00
	Maharashtra	20987	0	466.3	194.9	1.5	1072	0.00
	Goa	585	0	12.3	12.5	-0.2	41	0.00
	DNHDDPDCL	1182	0	27.5	27.5	0.0	51	0.00
	AMNSIL	814	0	18.0	11.5	0.2	307	0.00
SR	Andhra Pradesh	9042	0	193.5	75.6	0.9	687	0.00
	Telangana	11723	0	206.9	90.9	0.6	574	0.00
	Karnataka	9023	0	182.5	62.5	-0.9	553	0.00
	Kerala	3530	0	73.9	34.1	-0.7	166	0.00
	Tamil Nadu	14395	0	314.2	177.7	0.7	602	0.00
	Puducherry	428	0	9.7	8.9	0.1	58	0.00
ER	Bihar	5817	0	122.0	111.8	-0.8	636	3.30
	DVC	3567	0	75.0	-40.1	-0.6	327	0.00
	Jharkhand	1520	178	31.7	23.6	-0.9	242	3.72
	Odisha	6163	0	134.6	61.7	3.5	577	0.00
	West Bengal	9385	0	192.4	65.8	0.5	403	0.00
	Sikkim	101	0	1.6	1.6	0.0	16	0.00
NER	Arunachal Pradesh	139	0	2.5	2.3	-0.1	27	0.00
	Assam	2137	0	39.1	31.4	-0.2	165	0.05
	Manipur	194	0	2.7	2.7	0.0	20	0.00
	Meghalaya	322	0	5.8	0.3	-0.1	34	0.00
	Mizoram	112	0	1.7	0.8	-0.2	14	0.00
	Nagaland	143	0	2.6	2.2	-0.1	12	0.00
	Tripura	312	0	5.6	5.6	0.3	76	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	34.8	8.7	-25.2
Day Peak (MW)	1891.0	365.0	-1087.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	165.3	-101.7	89.0	-139.3	-13.3	0.0
Actual(MU)	135.5	-93.3	103.8	-137.7	-14.1	-5.7
O/D/U/D(MU)	-29.8	8.4	14.8	1.6	-0.8	-5.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3751	16986	8098	1815	309	30958	44
State Sector	7090	20439	9570	3000	99	40197	56
Total	10841	37424	17668	4815	408	71155	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	771	1019	480	590	17	2876	66
Lignite	26	11	56	0	0	92	2
Hydro	360	113	155	133	35	797	18
Nuclear	28	32	47	0	0	107	2
Gas, Naptha & Diesel	20	5	8	0	30	63	1
RES (Wind, Solar, Biomass & Others)	124	111	172	5	1	412	9
Total	1328	1291	918	728	82	4347	100

Share of RES in total generation (%)	9.32	8.56	18.75	0.62	0.68	9.47
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	38.54	19.85	40.75	18.97	42.91	30.26

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.036
Based on State Max Demands	1.079

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: 29-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	1003	0.0	22.2	-22.2
2	HVDC	PUSAULI B/B	-	0	49	0.0	1.2	-1.2
3	765 kV	GAYA-VARANASI	2	261	440	0.0	3.1	-3.1
4	765 kV	SASARAM-FATEHPUR	1	0	323	0.0	5.0	-5.0
5	765 kV	GAYA-BALIA	1	0	538	0.0	8.9	-8.9
6	400 kV	PUSAULI-VARANASI	1	2	53	0.0	0.6	-0.6
7	400 kV	PUSAULI -ALLAHABAD	1	0	59	0.0	0.6	-0.6
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	899	0.0	15.7	-15.7
9	400 kV	PATNA-BALIA	2	0	625	0.0	12.6	-12.6
10	400 kV	NAUBATPUR-BALIA	2	0	670	0.0	12.9	-12.9
11	400 kV	BIHARSHARIFF-BALIA	2	0	519	0.0	7.7	-7.7
12	400 kV	MOTIHARI-GORAKHPUR	2	0	468	0.0	8.1	-8.1
13	400 kV	BIHARSHARIFF-VARANASI	2	61	196	0.0	2.6	-2.6
14	220 kV	SAHUPURI-KARAMNASA	1	0	162	0.0	2.5	-2.5
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	58	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	0.5	103.5	-103.0
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	629	0	18.2	0.0	18.2
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	701	820	3.1	0.0	3.1
3	765 kV	JHARSUGUDA-DURG	2	0	314	0.0	4.6	-4.6
4	400 kV	JHARSUGUDA-RAIGARH	4	0	312	0.0	4.1	-4.1
5	400 kV	RANCHI-SIPAT	2	149	255	0.0	0.1	-0.1
6	220 kV	BUDHIPADAR-RAIGARH	1	3	118	0.0	1.5	-1.5
7	220 kV	BUDHIPADAR-KORBA	2	85	48	0.3	0.0	0.3
					ER-WR	21.6	10.3	11.3
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	591	0	14.5	0.0	14.5
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1992	0.0	45.4	-45.4
3	765 kV	ANGUL-SRIKAKULAM	2	0	3140	0.0	56.9	-56.9
4	400 kV	TALCHER-I/C	2	257	286	0.0	1.7	-1.7
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
					ER-SR	14.5	102.3	-87.8
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	32	270	0.0	2.7	-2.7
2	400 kV	ALIPURDUAR-BONGAIGAON	2	235	222	1.1	0.0	1.1
3	220 kV	ALIPURDUAR-SALAKATI	2	3	64	0.0	0.6	-0.6
					ER-NER	1.1	3.3	-2.2
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	704	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	325	0.0	7.5	-7.5
2	HVDC	VINDHYACHAL B/B	-	441	0	12.3	0.0	12.3
3	HVDC	MUNDRA-MOHINDERGARH	2	0	311	0.0	7.3	-7.3
4	765 kV	GWALIOR-AGRA	2	574	1334	0.9	14.5	-13.6
5	765 kV	GWALIOR-PHAGI	2	502	983	1.6	9.5	-7.9
6	765 kV	JABALPUR-ORAI	2	139	687	0.0	14.7	-14.7
7	765 kV	GWALIOR-ORAI	1	450	0	8.0	0.0	8.0
8	765 kV	SATNA-ORAI	1	0	833	0.0	16.0	-16.0
9	765 kV	BANASKANTHA-CHITORGARH	2	1623	0	20.5	0.0	20.5
10	765 kV	VINDHYACHAL-VARANASI	2	0	2435	0.0	37.3	-37.3
11	400 kV	ZERDA-KANKROLI	1	381	0	5.7	0.0	5.7
12	400 kV	ZERDA -BHINMAL	1	773	0	12.1	0.0	12.1
13	400 kV	VINDHYACHAL -RIHAND	1	961	0	21.8	0.0	21.8
14	400 kV	RAPP-SHUJALPUR	2	499	256	4.8	0.7	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	2.0	-2.0
17	220 kV	MEHGAON-AURAIYA	1	125	0	1.2	0.0	1.2
18	220 kV	MALANPUR-AURAIYA	1	93	0	1.8	0.0	1.8
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	90.7	109.5	-18.8
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	787	0	8.2	0.0	8.2
2	HVDC	RAIGARH-PUGALUR	2	0	3000	0.0	37.6	-37.6
3	765 kV	SOLAPUR-RAICHUR	2	378	1920	0.9	15.4	-14.5
4	765 kV	WARDHA-NIZAMABAD	2	0	3150	0.0	47.1	-47.1
5	400 kV	KOLHAPUR-KUDGI	2	1480	0	26.1	0.0	26.1
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	90	1.8	0.0	1.8
					WR-SR	37.0	100.2	-63.2

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 MANGDECHU HEP 4*180MW)	600	0	333	8.0
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1032	0	984	23.6
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	228	0	167	4.0
	NER	132kV GELEPHU-SALAKATI	17	5	5	0.1
	NER	132kV MOTANGA-RANGIA	42	0	28	0.7
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-41	0	-15	-0.4
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.0
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	406	294	377	9.0
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-917	-857	-888	-21.3
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-170	0	-163	-3.9