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, क़ुतुब इन्स्टीट्यूशनल एरिया, कटवारिया सराये, न्यू दिल्ली-110016

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 11th 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 10.07.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 10-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 10th 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:** **11-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)	62448	46415	33856	25095	3026	170840
Peak Shortage (MW)	0	0	0	143	53	196
Energy Met (MU)	1440	1067	788	552	61	3908
Hydro Gen (MU)	339	20	80	106	30	576
Wind Gen (MU)	12	187	274	-	-	473
Solar Gen (MU)*	86.15	33.29	58.38	4.82	0.71	183
Energy Shortage (MU)	6.63	0.00	0.00	2.31	0.42	9.36
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	67751	47385	36789	25819	3039	172375
Time Of Maximum Demand Met (From NLDC SCADA)	22:42	19:48	09:09	21:21	19:21	21:30

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	0.09	1.39	3.96	5.44	66.76	27.80

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	11344	0	253.9	178.3	-1.7	173	0.00
	Haryana	9397	0	195.9	129.4	-0.4	284	0.00
	Rajasthan	10616	0	231.9	66.5	-1.5	453	0.00
	Delhi	6133	0	116.6	108.0	-6.2	288	0.00
	UP	25335	0	513.5	250.2	0.1	484	6.12
	Uttarakhand	2105	0	43.5	23.6	0.2	159	0.51
	HP	1337	0	26.5	-9.1	-0.3	89	0.00
	J&K(UT) & Ladakh(UT)	2672	0	53.1	29.4	-1.6	272	0.00
	Chandigarh	264	0	5.0	5.7	-0.7	0	0.00
WR	Chhattisgarh	4060	0	98.6	46.9	-0.5	309	0.00
	Gujarat	13401	0	306.7	135.7	-4.7	695	0.00
	MP	8963	0	200.6	100.8	-0.1	681	0.00
	Maharashtra	18794	0	405.9	121.5	-1.3	893	0.00
	Goa	528	0	10.8	11.3	-0.5	58	0.00
	DNHDDPDCL	1097	0	25.7	25.6	0.1	62	0.00
	AMNSIL	887	0	18.5	11.8	-0.5	231	0.00
SR	Andhra Pradesh	7195	0	156.8	7.9	-3.7	590	0.00
	Telangana	6553	0	124.0	59.2	1.0	390	0.00
	Karnataka	7164	0	135.9	15.7	-0.5	524	0.00
	Kerala	2897	0	59.5	37.4	-0.7	250	0.00
	Tamil Nadu	13454	0	303.1	113.5	-7.3	492	0.00
	Puducherry	386	0	9.1	8.8	-0.5	24	0.00
ER	Bihar	6490	0	138.6	125.9	0.5	468	1.57
	DVC	3479	0	75.1	-31.5	-0.9	261	0.00
	Jharkhand	1670	25	33.7	27.9	-1.5	206	0.74
	Odisha	5814	0	126.9	65.0	-1.2	257	0.00
	West Bengal	9413	0	176.6	60.0	1.3	605	0.00
	Sikkim	74	0	1.2	1.2	0.0	17	0.00
NER	Arunachal Pradesh	142	0	2.6	2.5	-0.1	10	0.00
	Assam	2000	0	40.5	32.5	-0.1	114	0.00
	Manipur	181	0	2.6	2.8	-0.1	9	0.00
	Meghalaya	288	51	5.6	0.4	-0.2	47	0.42
	Mizoram	83	0	1.4	1.3	-0.3	5	0.00
	Nagaland	140	0	2.8	2.4	-0.1	16	0.00
	Tripura	306	0	5.7	5.5	0.2	54	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	28.5	6.7	-15.0
Day Peak (MW)	1352.0	289.3	-650.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	301.4	-194.9	-39.6	-62.0	-4.9	0.0
Actual(MU)	316.5	-189.4	-78.2	-47.8	-7.3	-6.2
O/D/U/D(MU)	15.1	5.5	-38.7	14.2	-2.3	-6.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3734	14006	8408	3215	309	29671	40
State Sector	8535	18144	14515	2640	191	44024	60
Total	12269	32149	22923	5855	500	73695	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	665	1003	325	516	14	2523	62
Lignite	25	7	52	0	0	84	2
Hydro	344	20	80	106	30	581	14
Nuclear	29	33	68	0	0	130	3
Gas, Naptha & Diesel	21	2	9	0	30	62	2
RES (Wind, Solar, Biomass & Others)	116	221	360	5	1	702	17
Total	1200	1286	894	627	75	4081	100

Share of RES in total generation (%)	9.63	17.18	40.30	0.77	0.95	17.20
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	40.75	21.30	56.85	17.72	41.01	34.62

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.049
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: 11-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	1400	0.0	34.4	-34.4
2	HVDC	PUSAULI B/B	-	0	49	0.0	1.1	-1.1
3	765 kV	GAYA-VARANASI	2	987	0	12.2	0.0	12.2
4	765 kV	SASARAM-FATEHPUR	1	309	69	2.0	0.0	2.0
5	765 kV	GAYA-BALIA	1	0	729	0.0	11.7	-11.7
6	400 kV	PUSAULI-VARANASI	1	0	98	0.0	1.0	-1.0
7	400 kV	PUSAULI -ALLAHABAD	1	41	53	0.0	0.1	-0.1
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	677	0.0	9.2	-9.2
9	400 kV	PATNA-BALIA	2	0	470	0.0	7.0	-7.0
10	400 kV	NAUBATPUR-BALIA	2	0	487	0.0	6.8	-6.8
11	400 kV	BIHARSHARIFF-BALIA	2	0	419	0.0	4.3	-4.3
12	400 kV	MOTIHARI-GORAKHPUR	2	11	357	0.0	4.2	-4.2
13	400 kV	BIHARSHARIFF-VARANASI	2	309	85	2.3	0.0	2.3
14	220 kV	SAHUPURI-KARAMNASA	1	0	148	0.0	1.9	-1.9
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	0.5	-0.5
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	16.8	82.2	-65.4
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	629	0	7.8	0.0	7.8
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1646	0	28.5	0.0	28.5
3	765 kV	JHARSUGUDA-DURG	2	0	314	0.0	0.4	-0.4
4	400 kV	JHARSUGUDA-RAIGARH	4	0	312	0.0	1.7	-1.7
5	400 kV	RANCHI-SIPAT	2	359	0	6.2	0.0	6.2
6	220 kV	BUDHIPADAR-RAIGARH	1	18	93	0.0	0.9	-0.9
7	220 kV	BUDHIPADAR-KORBA	2	151	5	2.0	0.0	2.0
					ER-WR	44.4	3.0	41.4
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	590	0	14.8	0.0	14.8
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1193	0.0	28.9	-28.9
3	765 kV	ANGUL-SRIKAKULAM	2	0	2218	0.0	33.5	-33.5
4	400 kV	TALCHER-I/C	2	717	188	10.9	0.0	10.9
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
					ER-SR	14.8	62.4	-47.6
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	543	0.0	9.3	-9.3
2	400 kV	ALIPURDUAR-BONGAIGAON	2	13	363	0.0	5.1	-5.1
3	220 kV	ALIPURDUAR-SALAKATI	2	0	109	0.0	1.9	-1.9
					ER-NER	0.0	16.3	-16.3
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	1005	0.0	23.7	-23.7
					NER-NR	0.0	23.7	-23.7
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	3030	0.0	78.3	-78.3
2	HVDC	VINDHYACHAL B/B	-	445	0	4.0	0.0	4.0
3	HVDC	MUNDRA-MOHINDERGARH	2	0	2019	0.0	25.9	-25.9
4	765 kV	GWALIOR-AGRA	2	0	1704	0.0	24.1	-24.1
5	765 kV	GWALIOR-PHAGI	2	488	1136	1.8	12.5	-10.7
6	765 kV	JABALPUR-ORAI	2	0	884	0.0	27.5	-27.5
7	765 kV	GWALIOR-ORAI	1	390	12	5.7	0.0	5.7
8	765 kV	SATNA-ORAI	1	0	920	0.0	17.5	-17.5
9	765 kV	BANASKANTHA-CHITORGARH	2	526	532	0.0	0.7	-0.7
10	765 kV	VINDHYACHAL-VARANASI	2	0	3810	0.0	77.1	-77.1
11	400 kV	ZERDA-KANKROLI	1	186	43	1.1	0.0	1.1
12	400 kV	ZERDA -BHINMAL	1	372	38	2.6	0.0	2.6
13	400 kV	VINDHYACHAL -RIHAND	1	957	0	20.5	0.0	20.5
14	400 kV	RAPP-SHUJALPUR	2	325	470	1.6	3.3	-1.7
15	220 kV	BHANPURA-RANPUR	1	0	1	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.5	-2.5
17	220 kV	MEHGAON-AURAIYA	1	76	0	0.3	0.0	0.2
18	220 kV	MALANPUR-AURAIYA	1	45	8	0.9	0.0	0.9
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	38.3	269.6	-231.3
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	984	0	24.0	0.0	24.0
2	HVDC	RAIGARH-PUGALUR	2	2869	0	46.2	0.0	46.2
3	765 kV	SOLAPUR-RAICHUR	2	1174	749	9.5	1.6	7.8
4	765 kV	WARDHA-NIZAMABAD	2	0	2005	0.0	25.2	-25.2
5	400 kV	KOLHAPUR-KUDGI	2	1435	0	29.1	0.0	29.1
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	88	1.5	0.0	1.5
					WR-SR	110.2	26.8	83.4

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)	468	0	441	10.6
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	807	609	708	17.0
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	105	0	74	1.8
	NER	132kV GELEPHU-SALAKATI	-23	-7	-12	-0.3
	NER	132kV MOTANGA-RANGIA	-38	-12	-23	-0.6
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-73	0	-45	-1.1
	ER	NEPAL IMPORT (FROM BIHAR)	-20	-4	-8	-0.2
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	382	242	331	7.9
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-506	-498	-500	-12.0
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-144	0	-125	-3.0