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: 25th 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 24.07.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 24-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 24th 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:** **25-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)	57375	46540	36697	24718	3007	168337
Peak Shortage (MW)	0	0	0	481	0	481
Energy Met (MU)	1329	1083	884	540	56	3893
Hydro Gen (MU)	342	92	145	128	34	740
Wind Gen (MU)	9	183	155	-	-	347
Solar Gen (MU)*	95.53	23.93	83.79	4.48	0.55	208
Energy Shortage (MU)	0.07	0.14	0.00	3.09	0.00	3.30
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	61331	47190	41053	25932	3034	171431
Time Of Maximum Demand Met (From NLDC SCADA)	21:27	09:38	09:35	00:19	19:32	20:43

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	0.034	0.00	0.50	3.06	3.55	75.15	21.29

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	10883	0	238.2	164.6	-1.3	115	0.00
	Haryana	8321	0	180.4	116.4	0.8	298	0.00
	Rajasthan	9506	0	213.5	47.4	-3.0	253	0.00
	Delhi	5655	0	113.8	103.3	-1.3	205	0.00
	UP	22467	0	457.7	206.2	0.5	485	0.00
	Uttarakhand	2006	0	43.9	21.0	-0.2	83	0.07
	HP	1403	0	29.0	-10.3	-0.2	97	0.00
	J&K(UT) & Ladakh(UT)	2028	0	47.0	27.7	-6.2	190	0.00
	Chandigarh	285	0	6.0	6.2	-0.2	11	0.00
WR	Chhattisgarh	4015	0	94.1	49.8	-0.4	435	0.14
	Gujarat	13048	0	303.6	142.1	-3.1	474	0.00
	MP	9303	0	203.6	78.8	0.0	565	0.00
	Maharashtra	19649	0	427.9	150.5	-2.6	537	0.00
	Goa	534	0	10.9	11.1	-0.2	43	0.00
	DNHDDPDCL	1086	0	25.2	25.2	0.0	39	0.00
	AMNSIL	844	0	18.0	11.9	0.0	252	0.00
SR	Andhra Pradesh	8707	0	184.4	47.9	-0.5	555	0.00
	Telangana	9705	0	177.8	74.8	1.5	659	0.00
	Karnataka	8734	0	166.8	42.5	-0.9	565	0.00
	Kerala	3217	0	64.8	29.7	-0.3	315	0.00
	Tamil Nadu	12812	0	281.7	121.9	-1.4	492	0.00
	Puducherry	391	0	8.8	8.3	-0.2	42	0.00
ER	Bihar	6518	698	128.1	117.0	1.5	390	2.97
	DVC	3652	0	77.0	-34.3	-0.1	233	0.00
	Jharkhand	1705	0	33.8	25.2	-0.4	178	0.12
	Odisha	6335	0	136.4	82.5	-0.9	283	0.00
	West Bengal	8761	0	164.2	50.9	-0.4	508	0.00
	Sikkim	74	0	1.1	1.2	-0.1	11	0.00
NER	Arunachal Pradesh	143	0	2.5	2.3	-0.3	18	0.00
	Assam	1990	0	36.7	29.1	-0.1	78	0.00
	Manipur	175	0	2.6	2.6	0.0	18	0.00
	Meghalaya	291	0	5.6	0.3	-0.1	35	0.00
	Mizoram	90	0	1.7	0.8	-0.1	22	0.00
	Nagaland	136	0	2.6	2.3	-0.1	8	0.00
	Tripura	263	0	4.8	5.2	-0.3	29	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	40.0	7.3	-25.1
Day Peak (MW)	1860.0	326.0	-1083.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	218.1	-143.3	-1.1	-61.3	-12.4	0.0
Actual(MU)	195.7	-143.5	12.9	-55.4	-12.5	-2.8
O/D/U/D(MU)	-22.5	-0.2	14.0	5.9	-0.1	-2.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3552	18081	7488	2375	309	31804	43
State Sector	7385	19679	11975	3000	120	42158	57
Total	10937	37759	19463	5375	429	73962	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	677	899	368	498	13	2454	60
Lignite	27	10	57	0	0	94	2
Hydro	344	92	145	128	34	743	18
Nuclear	29	40	49	0	0	118	3
Gas, Naptha & Diesel	16	3	9	0	29	57	1
RES (Wind, Solar, Biomass & Others)	125	207	278	4	1	616	15
Total	1219	1252	906	630	76	4082	100

Share of RES in total generation (%)	10.29	16.57	30.69	0.71	0.72	15.08
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	40.94	27.13	52.03	20.99	45.24	36.17

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.041
Based on State Max Demands	1.078

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: 25-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	751	0.0	18.7	-18.7
2	HVDC	PUSAULI B/B	-	0	49	0.0	1.1	-1.1
3	765 kV	GAYA-VARANASI	2	504	169	5.5	0.0	5.5
4	765 kV	SASARAM-FATEHPUR	1	104	184	0.0	0.9	-0.9
5	765 kV	GAYA-BALIA	1	0	594	0.0	7.6	-7.6
6	400 kV	PUSAULI-VARANASI	1	0	70	0.0	0.9	-0.9
7	400 kV	PUSAULI -ALLAHABAD	1	15	50	0.0	0.3	-0.3
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	857	0.0	13.9	-13.9
9	400 kV	PATNA-BALIA	2	0	586	0.0	9.6	-9.6
10	400 kV	NAUBATPUR-BALIA	2	0	625	0.0	9.7	-9.7
11	400 kV	BIHARSHARIFF-BALIA	2	0	480	0.0	7.0	-7.0
12	400 kV	MOTIHARI-GORAKHPUR	2	0	443	0.0	6.5	-6.5
13	400 kV	BIHARSHARIFF-VARANASI	2	137	134	0.2	0.0	0.2
14	220 kV	SAHUPURI-KARAMNASA	1	0	137	0.0	2.1	-2.1
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.1	0.0	0.1
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	6.2	78.3	-72.1
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	629	0	29.4	0.0	29.4
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1382	128	18.4	0.0	18.4
3	765 kV	JHARSUGUDA-DURG	2	0	314	1.4	0.0	1.4
4	400 kV	JHARSUGUDA-RAIGARH	4	0	312	2.2	0.0	2.2
5	400 kV	RANCHI-SIPAT	2	321	102	3.8	0.0	3.8
6	220 kV	BUDHIPADAR-RAIGARH	1	59	60	0.0	0.0	0.0
7	220 kV	BUDHIPADAR-KORBA	2	140	0	1.8	0.0	1.8
					ER-WR	57.0	0.0	57.0
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	1996	0.0	40.8	-40.8
3	765 kV	ANGUL-SRIKAKULAM	2	0	3077	0.0	50.7	-50.7
4	400 kV	TALCHER-I/C	2	272	924	0.0	0.8	-0.8
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
					ER-SR	14.5	91.5	-77.0
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	63	211	0.0	2.1	-2.1
2	400 kV	ALIPURDUAR-BONGAIGAON	2	193	230	0.0	0.7	-0.7
3	220 kV	ALIPURDUAR-SALAKATI	2	16	66	0.0	0.8	-0.8
					ER-NER	0.0	3.6	-3.6
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	1524	0.0	36.3	-36.3
2	HVDC	VINDHYACHAL B/B	-	443	0	8.6	0.0	8.6
3	HVDC	MUNDRA-MOHINDERGARH	2	0	311	0.0	7.3	-7.3
4	765 kV	GWALIOR-AGRA	2	302	1717	0.0	19.5	-19.5
5	765 kV	GWALIOR-PHAGI	2	1010	845	0.0	3.4	-3.4
6	765 kV	JABALPUR-ORAI	2	3	788	0.0	18.5	-18.5
7	765 kV	GWALIOR-ORAI	1	411	72	5.3	0.0	5.3
8	765 kV	SATNA-ORAI	1	0	834	0.0	14.6	-14.6
9	765 kV	BANASKANTHA-CHITORGARH	2	900	363	1.7	0.0	1.7
10	765 kV	VINDHYACHAL-VARANASI	2	0	3027	0.0	50.4	-50.4
11	400 kV	ZERDA-KANKROLI	1	239	59	1.4	0.0	1.4
12	400 kV	ZERDA -BHINMAL	1	462	79	4.0	0.0	4.0
13	400 kV	VINDHYACHAL -RIHAND	1	957	0	19.7	0.0	19.7
14	400 kV	RAPP-SHUJALPUR	2	406	391	1.0	0.0	1.0
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.2	-2.2
17	220 kV	MEHGAON-AURAIYA	1	104	0	0.6	0.0	0.6
18	220 kV	MALANPUR-AURAIYA	1	73	3	1.2	0.0	1.2
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	43.3	152.2	-108.9
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	984	0	24.0	0.0	24.0
2	HVDC	RAIGARH-PUGALUR	2	1929	0	34.6	0.0	34.6
3	765 kV	SOLAPUR-RAICHUR	2	585	2025	0.0	13.6	-13.6
4	765 kV	WARDHA-NIZAMABAD	2	0	3106	0.0	46.6	-46.6
5	400 kV	KOLHAPUR-KUDGI	2	1365	0	22.1	0.0	22.1
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	98	1.9	0.0	1.9
					WR-SR	82.5	60.2	22.3

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)	595	554	565	13.6
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1097	0	1047	25.1
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	134	0	89	2.1
	NER	132kV GELEPHU-SALAKATI	-24	-7	-8	-0.2
	NER	132kV MOTANGA-RANGIA	-47	0	-27	-0.7
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-62	0	-31	-0.8
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.0
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	388	260	337	8.1
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-920	-873	-898	-21.5
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-163	0	-148	-3.5