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: 12th 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 11.07.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 11-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 11th 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:** **12-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)	67908	46668	38561	25191	2981	181309
Peak Shortage (MW)	183	0	0	730	57	970
Energy Met (MU)	1560	1093	845	558	60	4115
Hydro Gen (MU)	363	23	89	108	32	613
Wind Gen (MU)	11	180	283	-	-	475
Solar Gen (MU)*	101.93	27.73	55.98	4.41	0.55	191
Energy Shortage (MU)	4.86	0.00	0.00	4.46	0.44	9.76
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	73429	47412	39736	25607	3062	182818
Time Of Maximum Demand Met (From NLDC SCADA)	22:24	09:33	09:32	23:17	18:53	20:00

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	0.060	0.51	3.14	5.80	9.44	67.98	22.58

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	13277	0	290.0	190.8	-0.5	110	0.00
	Haryana	10953	143	224.5	154.8	2.1	257	0.42
	Rajasthan	11002	0	238.5	63.0	0.4	376	0.00
	Delhi	6528	0	130.4	118.5	-2.0	270	0.00
	UP	25765	520	535.7	259.9	-0.2	554	2.81
	Uttarakhand	2206	0	47.6	27.3	0.9	137	1.63
	HP	1567	0	32.4	-5.9	-1.2	21	0.00
	J&K(UT) & Ladakh(UT)	2693	0	53.9	32.0	-3.4	188	0.00
	Chandigarh	330	0	6.6	6.9	-0.3	26	0.00
WR	Chhattisgarh	4165	0	101.2	44.4	0.2	217	0.00
	Gujarat	14289	0	310.6	141.4	-4.4	1091	0.00
	MP	9003	0	205.5	107.3	0.0	516	0.00
	Maharashtra	19494	0	418.1	125.2	-3.4	784	0.00
	Goa	568	0	11.6	11.7	-0.2	49	0.00
	DNHDDPDCL	1142	0	26.0	26.0	0.0	97	0.00
	AMNSIL	881	0	19.5	10.8	-0.5	267	0.00
SR	Andhra Pradesh	7195	0	163.3	-0.1	-0.5	579	0.00
	Telangana	7071	0	136.5	64.3	0.4	385	0.00
	Karnataka	8034	0	154.5	26.1	-0.7	996	0.00
	Kerala	3305	0	65.3	41.7	-0.9	223	0.00
	Tamil Nadu	14539	0	316.2	124.3	-2.5	650	0.00
	Puducherry	387	0	9.2	9.0	-0.5	32	0.00
ER	Bihar	6358	0	137.3	126.5	0.3	371	3.89
	DVC	3588	0	76.9	-38.2	0.2	251	0.00
	Jharkhand	1676	0	33.9	27.5	-1.8	157	0.56
	Odisha	5681	0	123.8	58.6	-1.3	247	0.00
	West Bengal	9031	0	184.1	70.1	-0.1	472	0.00
	Sikkim	98	0	1.6	1.4	0.2	24	0.00
NER	Arunachal Pradesh	142	0	2.5	2.6	-0.4	23	0.00
	Assam	2056	0	39.4	32.2	-0.9	120	0.00
	Manipur	189	0	2.7	2.8	-0.1	17	0.00
	Meghalaya	283	15	5.5	0.6	0.3	114	0.44
	Mizoram	97	0	1.6	1.4	-0.2	4	0.00
	Nagaland	154	0	2.8	2.5	-0.2	15	0.00
	Tripura	304	0	5.6	6.0	0.2	125	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	24.6	5.5	-14.8
Day Peak (MW)	1492.0	297.6	-642.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	325.6	-201.9	-36.6	-80.2	-6.9	0.0
Actual(MU)	328.8	-189.1	-64.9	-71.0	-8.8	-5.1
O/D/U/D(MU)	3.1	12.7	-28.3	9.2	-1.9	-5.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4080	16576	8408	2555	309	31927	43
State Sector	7655	18469	13285	3390	281	43079	57
Total	11735	35044	21693	5945	590	75006	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	716	1047	346	554	14	2676	63
Lignite	26	5	56	0	0	87	2
Hydro	365	23	89	108	32	616	14
Nuclear	29	26	68	0	0	123	3
Gas, Naptha & Diesel	20	3	9	0	29	61	1
RES (Wind, Solar, Biomass & Others)	131	208	371	4	1	715	17
Total	1288	1312	938	666	75	4280	100

Share of RES in total generation (%)	10.18	15.87	39.57	0.66	0.73	16.72
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	40.81	19.61	56.23	16.80	42.79	33.99

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.035
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: 12-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	1401	0.0	33.4	-33.4
2	HVDC	PUSAULI B/B	-	0	49	0.0	1.1	-1.1
3	765 kV	GAYA-VARANASI	2	706	152	7.3	0.0	7.3
4	765 kV	SASARAM-FATEHPUR	1	193	157	0.0	0.1	-0.1
5	765 kV	GAYA-BALIA	1	0	889	0.0	14.3	-14.3
6	400 kV	PUSAULI-VARANASI	1	11	78	0.0	0.9	-0.9
7	400 kV	PUSAULI -ALLAHABAD	1	22	69	0.0	0.2	-0.2
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	889	0.0	11.9	-11.9
9	400 kV	PATNA-BALIA	2	0	628	0.0	9.6	-9.6
10	400 kV	NAUBATPUR-BALIA	2	0	664	0.0	9.8	-9.8
11	400 kV	BIHARSHARIFF-BALIA	2	0	534	0.0	6.1	-6.1
12	400 kV	MOTIHARI-GORAKHPUR	2	0	477	0.0	6.0	-6.0
13	400 kV	BIHARSHARIFF-VARANASI	2	197	197	0.8	0.0	0.8
14	220 kV	SAHUPURI-KARAMNASA	1	0	171	0.0	2.0	-2.0
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	8.5	95.5	-87.0
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	629	0	10.6	0.0	10.6
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1707	0	28.3	0.0	28.3
3	765 kV	JHARSUGUDA-DURG	2	0	314	0.0	1.1	-1.1
4	400 kV	JHARSUGUDA-RAIGARH	4	0	312	0.0	2.0	-2.0
5	400 kV	RANCHI-SIPAT	2	378	0	5.3	0.0	5.3
6	220 kV	BUDHIPADAR-RAIGARH	1	5	104	0.0	1.2	-1.2
7	220 kV	BUDHIPADAR-KORBA	2	152	1	1.9	0.0	1.9
					ER-WR	46.1	4.3	41.8
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	587	0	14.1	0.0	14.1
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1642	0.0	35.3	-35.3
3	765 kV	ANGUL-SRIKAKULAM	2	0	2718	0.0	40.7	-40.7
4	400 kV	TALCHER-I/C	2	711	259	9.5	0.0	9.5
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
					ER-SR	14.1	75.9	-61.8
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	410	0.0	6.3	-6.3
2	400 kV	ALIPURDUAR-BONGAIGAON	2	225	261	0.0	1.3	-1.3
3	220 kV	ALIPURDUAR-SALAKATI	2	0	87	0.0	1.2	-1.2
					ER-NER	0.0	8.8	-8.8
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	1005	0.0	18.4	-18.4
					NER-NR	0.0	18.4	-18.4
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	5007	0.0	75.3	-75.3
2	HVDC	VINDHYACHAL B/B	-	447	0	12.2	0.0	12.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	2020	0.0	38.0	-38.0
4	765 kV	GWALIOR-AGRA	2	0	2035	0.0	28.8	-28.8
5	765 kV	GWALIOR-PHAGI	2	364	1414	0.5	14.2	-13.7
6	765 kV	JABALPUR-ORAI	2	0	1064	0.0	27.6	-27.6
7	765 kV	GWALIOR-ORAI	1	476	0	6.9	0.0	6.9
8	765 kV	SATNA-ORAI	1	0	1003	0.0	19.1	-19.1
9	765 kV	BANASKANTHA-CHITORGARH	2	864	324	5.6	0.0	5.6
10	765 kV	VINDHYACHAL-VARANASI	2	0	3763	0.0	74.8	-74.8
11	400 kV	ZERDA-KANKROLI	1	239	20	2.2	0.0	2.2
12	400 kV	ZERDA -BHINMAL	1	447	37	4.5	0.0	4.5
13	400 kV	VINDHYACHAL -RIHAND	1	958	0	21.6	0.0	21.6
14	400 kV	RAPP-SHUJALPUR	2	340	574	1.4	2.7	-1.3
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.9	-2.9
17	220 kV	MEHGAON-AURAIYA	1	79	0	0.3	0.0	0.2
18	220 kV	MALANPUR-AURAIYA	1	47	18	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	55.9	283.3	-227.4
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	984	0	19.6	0.0	19.6
2	HVDC	RAIGARH-PUGALUR	2	2868	0	57.2	0.0	57.2
3	765 kV	SOLAPUR-RAICHUR	2	1161	1176	8.7	4.3	4.4
4	765 kV	WARDHA-NIZAMABAD	2	0	2522	0.0	30.4	-30.4
5	400 kV	KOLHAPUR-KUDGI	2	1546	0	27.4	0.0	27.4
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	109	1.6	0.0	1.6
					WR-SR	114.6	34.7	79.9

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)	513	0	447	10.7
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	920	658	672	16.1
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	107	0	84	2.0
	NER	132kV GELEPHU-SALAKATI	14	4	9	0.2
	NER	132kV MOTANGA-RANGIA	47	17	33	0.8
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-76	0	-59	-1.4
	ER	NEPAL IMPORT (FROM BIHAR)	-20	-5	-11	-0.3
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	394	209	300	7.2
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-505	-503	-503	-12.1
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-137	0	-112	-2.7