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: 10th 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 09.07.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 09-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 09th 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: 10-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)	62581	48729	38979	24433	3093	177815
Peak Shortage (MW)	300	0	0	1310	50	1660
Energy Met (MU)	1575	1121	869	547	62	4173
Hydro Gen (MU)	346	22	87	110	29	594
Wind Gen (MU)	13	166	277	-	-	456
Solar Gen (MU)*	101.26	32.33	56.57	4.64	0.82	196
Energy Shortage (MU)	5.32	0.00	0.00	12.27	0.69	18.28
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	74085	48811	40518	25602	3136	180654
Time Of Maximum Demand Met (From NLDC SCADA)	00:06	19:52	09:28	22:34	19:22	11:42

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	0.037	0.00	0.03	4.78	4.81	70.34	24.85

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	13905	0	286.2	186.1	-4.5	220	0.00
	Haryana	11761	0	240.2	160.8	1.0	275	0.00
	Rajasthan	12201	0	262.1	90.2	-1.0	485	0.00
	Delhi	7181	0	137.1	123.7	-1.5	216	0.00
	UP	25512	0	511.6	257.4	0.9	557	3.11
	Uttarakhand	2070	0	45.1	28.1	-0.2	134	2.21
	HP	1623	0	33.0	-4.0	0.0	222	0.00
	J&K(UT) & Ladakh(UT)	2214	0	53.2	30.5	-2.7	323	0.00
	Chandigarh	308	0	6.2	6.5	-0.3	25	0.00
WR	Chhattisgarh	4055	0	96.1	42.2	0.9	280	0.00
	Gujarat	14915	0	327.0	149.2	-3.2	921	0.00
	MP	9726	0	209.4	94.3	0.0	284	0.00
	Maharashtra	19744	0	432.9	139.1	0.0	629	0.00
	Goa	594	0	12.0	11.9	0.1	61	0.00
	DNHDDPDCL	1177	0	27.1	27.0	0.1	68	0.00
	AMNSIL	810	0	16.3	10.1	0.1	248	0.00
SR	Andhra Pradesh	7678	0	162.8	4.6	-2.7	518	0.00
	Telangana	6853	0	135.5	65.1	0.8	656	0.00
	Karnataka	8221	0	155.2	35.6	-1.8	670	0.00
	Kerala	3157	0	64.9	42.1	-0.5	164	0.00
	Tamil Nadu	15657	0	340.5	114.2	-3.9	517	0.00
	Puducherry	413	0	9.8	9.5	-0.5	26	0.00
ER	Bihar	6205	1100	130.9	122.5	0.0	402	11.39
	DVC	3644	0	78.6	-40.7	1.1	400	0.00
	Jharkhand	1712	0	34.0	26.6	-0.5	230	0.88
	Odisha	5299	0	109.9	46.9	-2.1	499	0.00
	West Bengal	9497	0	191.8	76.6	-1.0	219	0.00
	Sikkim	88	0	1.5	1.5	-0.1	18	0.00
NER	Arunachal Pradesh	142	0	2.5	2.3	-0.2	21	0.00
	Assam	2080	0	41.7	34.1	-0.3	130	0.00
	Manipur	185	0	2.7	2.7	0.0	34	0.00
	Meghalaya	283	15	5.6	0.2	0.1	122	0.69
	Mizoram	90	0	1.6	1.4	-0.3	6	0.00
	Nagaland	155	0	2.7	2.3	-0.2	13	0.00
	Tripura	297	0	5.6	6.1	0.0	58	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	30.5	7.6	-15.2
Day Peak (MW)	1544.0	318.3	-650.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	359.2	-221.7	-34.5	-100.4	-2.6	0.0
Actual(MU)	365.9	-207.2	-68.3	-91.1	-4.2	-4.8
O/D/U/D(MU)	6.7	14.6	-33.9	9.4	-1.5	-4.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4981	12936	8408	3215	459	29998	42
State Sector	8630	18004	13285	2080	191	42189	58
Total	13611	30939	21693	5295	650	72187	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	718	1095	383	551	14	2761	64
Lignite	27	7	57	0	0	91	2
Hydro	349	22	87	110	29	597	14
Nuclear	29	33	68	0	0	130	3
Gas, Naptha & Diesel	21	2	9	0	29	61	1
RES (Wind, Solar, Biomass & Others)	133	198	362	5	1	699	16
Total	1277	1359	964	665	74	4339	100

Share of RES in total generation (%)	10.42	14.61	37.54	0.70	1.11	16.11
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	40.03	18.68	53.54	17.22	40.72	32.86

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.064
Based on State Max Demands	1.104

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: 10-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	33.8	-33.8
2	HVDC	PUSAULI B/B	-	0	49	0.0	0.7	-0.7
3	765 kV	GAYA-VARANASI	2	832	189	6.7	0.0	6.7
4	765 kV	SASARAM-FATEHPUR	1	208	253	0.0	1.2	-1.2
5	765 kV	GAYA-BALIA	1	0	783	0.0	12.5	-12.5
6	400 kV	PUSAULI-VARANASI	1	16	67	0.0	0.4	-0.4
7	400 kV	PUSAULI -ALLAHABAD	1	12	77	0.0	0.3	-0.3
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	759	0.0	10.8	-10.8
9	400 kV	PATNA-BALIA	2	0	618	0.0	9.2	-9.2
10	400 kV	NAUBATPUR-BALIA	2	0	640	0.0	9.4	-9.4
11	400 kV	BIHARSHARIFF-BALIA	2	0	482	0.0	5.2	-5.2
12	400 kV	MOTIHARI-GORAKHPUR	2	22	441	0.0	5.6	-5.6
13	400 kV	BIHARSHARIFF-VARANASI	2	238	178	0.0	0.6	-0.6
14	220 kV	SAHUPURI-KARAMNASA	1	0	157	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	7.2	91.7	-84.5
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	629	0	2.2	0.0	2.2
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1767	0	28.7	0.0	28.7
3	765 kV	JHARSUGUDA-DURG	2	0	314	0.0	2.5	-2.5
4	400 kV	JHARSUGUDA-RAIGARH	4	0	312	0.0	4.0	-4.0
5	400 kV	RANCHI-SIPAT	2	355	0	4.9	0.0	4.9
6	220 kV	BUDHIPADAR-RAIGARH	1	1	123	0.0	1.6	-1.6
7	220 kV	BUDHIPADAR-KORBA	2	114	14	1.1	0.0	1.1
					ER-WR	36.8	8.1	28.7
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	597	0	14.4	0.0	14.4
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1642	0.0	34.2	-34.2
3	765 kV	ANGUL-SRIKAKULAM	2	0	2673	0.0	38.7	-38.7
4	400 kV	TALCHER-I/C	2	708	0	8.2	0.0	8.2
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
					ER-SR	14.4	72.9	-58.5
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	588	0.0	10.5	-10.5
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	460	0.0	6.5	-6.5
3	220 kV	ALIPURDUAR-SALAKATI	2	0	112	0.0	2.1	-2.1
					ER-NER	0.0	19.0	-19.0
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	1006	0.0	24.2	-24.2
					NER-NR	0.0	24.2	-24.2
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2269	0.0	88.8	-88.8
2	HVDC	VINDHYACHAL B/B	-	90	54	1.6	0.4	1.1
3	HVDC	MUNDRA-MOHINDERGARH	2	0	2020	0.0	36.1	-36.1
4	765 kV	GWALIOR-AGRA	2	0	2146	0.0	30.4	-30.4
5	765 kV	GWALIOR-PHAGI	2	138	1596	0.1	19.5	-19.4
6	765 kV	JABALPUR-ORAI	2	0	1114	0.0	28.8	-28.8
7	765 kV	GWALIOR-ORAI	1	488	29	7.1	0.0	7.1
8	765 kV	SATNA-ORAI	1	0	1076	0.0	21.2	-21.2
9	765 kV	BANASKANTHA-CHITORGARH	2	938	260	8.3	0.0	8.3
10	765 kV	VINDHYACHAL-VARANASI	2	0	3873	0.0	73.8	-73.8
11	400 kV	ZERDA-KANKROLI	1	219	60	2.0	0.0	2.0
12	400 kV	ZERDA -BHINMAL	1	477	101	4.6	0.0	4.6
13	400 kV	VINDHYACHAL -RIHAND	1	954	0	21.9	0.0	21.9
14	400 kV	RAPP-SHUJALPUR	2	178	681	0.8	5.6	-4.8
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	75	0	0.3	0.1	0.2
18	220 kV	MALANPUR-AURAIYA	1	40	16	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	47.5	307.5	-260.0
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	984	0	24.0	0.0	24.0
2	HVDC	RAIGARH-PUGALUR	2	2875	0	49.3	0.0	49.3
3	765 kV	SOLAPUR-RAICHUR	2	1299	1195	9.6	3.4	6.2
4	765 kV	WARDHA-NIZAMABAD	2	0	2374	0.0	27.5	-27.5
5	400 kV	KOLHAPUR-KUDGI	2	1472	0	27.8	0.0	27.8
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	1.8	0.0	1.8
					WR-SR	112.5	30.9	81.6

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)	598	431	482	11.6
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	827	706	734	17.6
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	210	83	93	2.2
	NER	132kV GELEPHU-SALAKATI	-31	-8	-20	-0.5
	NER	132kV MOTANGA-RANGIA	-27	0	-18	-0.4
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-62	0	-41	-1.0
	ER	NEPAL IMPORT (FROM BIHAR)	-8	4	-4	-0.1
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	388	247	360	8.7
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-504	-499	-501	-12.0
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-146	0	-133	-3.2