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: 04th 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 03.07.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 03-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 03rd 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:** **04-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)	60823	50270	37365	23713	2865	175036
Peak Shortage (MW)	18	0	0	159	64	241
Energy Met (MU)	1370	1178	932	513	56	4049
Hydro Gen (MU)	354	21	53	119	33	581
Wind Gen (MU)	9	97	215	-	-	321
Solar Gen (MU)*	65.28	41.63	86.31	4.18	0.61	198
Energy Shortage (MU)	0.35	0.00	0.00	1.00	0.68	2.03
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	66595	49958	43078	24172	2911	180432
Time Of Maximum Demand Met (From NLDC SCADA)	22:40	11:17	11:52	22:58	20:28	22:20

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	0.057	0.00	0.00	4.11	4.11	65.58	30.31

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	11940	0	261.2	166.3	-1.5	256	0.00
	Haryana	9444	0	197.9	134.2	0.1	281	0.00
	Rajasthan	9872	0	222.8	60.4	-2.4	398	0.00
	Delhi	5918	0	112.4	101.8	-1.4	175	0.00
	UP	23380	0	447.3	212.2	3.2	772	0.00
	Uttarakhand	2109	0	43.7	23.6	0.2	156	0.00
	HP	1349	18	29.5	-5.8	-0.5	83	0.35
	J&K(UT) & Ladakh(UT)	2440	0	49.4	28.1	-3.4	67	0.00
	Chandigarh	320	0	5.9	6.0	-0.1	29	0.00
WR	Chhattisgarh	4391	0	102.4	45.3	-0.4	430	0.00
	Gujarat	14914	0	341.5	191.7	1.4	700	0.00
	MP	8961	0	203.0	104.1	0.0	474	0.00
	Maharashtra	21231	0	474.3	155.3	0.5	1984	0.00
	Goa	560	0	11.5	11.5	-0.1	44	0.00
	DNHDDPDCL	1109	0	26.1	26.0	0.1	67	0.00
	AMNSIL	899	0	19.1	11.3	0.4	284	0.00
SR	Andhra Pradesh	8995	0	188.8	36.4	0.5	684	0.00
	Telangana	8659	0	164.1	79.8	1.2	671	0.00
	Karnataka	9514	0	183.0	52.3	-0.6	676	0.00
	Kerala	2699	0	61.0	42.7	-0.3	330	0.00
	Tamil Nadu	14366	0	325.8	130.1	-9.4	541	0.00
	Puducherry	448	0	9.2	9.5	-0.3	41	0.00
ER	Bihar	6109	0	123.1	110.3	1.6	399	0.26
	DVC	3366	0	72.7	-38.8	1.1	270	0.00
	Jharkhand	1517	126	32.9	23.9	0.6	203	0.75
	Odisha	5309	0	115.1	58.6	1.2	440	0.00
	West Bengal	8436	0	168.3	44.0	0.2	284	0.00
	Sikkim	70	0	1.0	1.2	-0.2	12	0.00
NER	Arunachal Pradesh	115	0	2.3	2.2	-0.2	24	0.00
	Assam	1960	0	36.8	28.4	-0.1	90	0.00
	Manipur	175	0	2.5	2.6	-0.1	11	0.00
	Meghalaya	270	64	5.4	0.1	0.3	61	0.68
	Mizoram	98	0	1.6	1.3	-0.1	9	0.00
	Nagaland	136	0	2.6	2.2	-0.1	11	0.00
	Tripura	294	0	5.2	5.0	0.7	112	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	40.2	7.1	-25.0
Day Peak (MW)	2072.0	314.0	-1101.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	236.0	-107.6	12.8	-134.5	-6.9	-0.3
Actual(MU)	237.8	-98.4	-10.9	-125.8	-9.7	-7.0
O/D/U/D(MU)	1.9	9.2	-23.8	8.8	-2.7	-6.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3535	13926	7448	2305	822	28035	44
State Sector	8265	16261	9225	2332	211	36293	56
Total	11800	30186	16673	4637	1033	64329	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	670	1084	450	546	16	2765	66
Lignite	26	12	55	0	0	93	2
Hydro	357	21	53	119	33	583	14
Nuclear	29	33	67	0	0	130	3
Gas, Naptha & Diesel	16	4	9	0	24	52	1
RES (Wind, Solar, Biomass & Others)	91	138	343	4	1	577	14
Total	1189	1292	977	669	73	4201	100

Share of RES in total generation (%)	7.63	10.72	35.12	0.63	0.83	13.74
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	40.11	14.90	47.47	18.43	46.23	30.72

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: 04-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	1001	0.0	22.8	-22.8
2	HVDC	PUSAULI B/B	-	0	49	0.0	1.2	-1.2
3	765 kV	GAYA-VARANASI	2	365	498	0.0	1.6	-1.6
4	765 kV	SASARAM-FATEHPUR	1	0	454	0.0	6.4	-6.4
5	765 kV	GAYA-BALIA	1	0	685	0.0	9.6	-9.6
6	400 kV	PUSAULI-VARANASI	1	31	34	0.0	0.0	0.0
7	400 kV	PUSAULI -ALLAHABAD	1	0	90	0.0	1.2	-1.2
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	816	0.0	15.3	-15.3
9	400 kV	PATNA-BALIA	2	0	586	0.0	10.2	-10.2
10	400 kV	NAUBATPUR-BALIA	2	0	622	0.0	10.3	-10.3
11	400 kV	BIHARSHARIFF-BALIA	2	0	487	0.0	6.7	-6.7
12	400 kV	MOTIHARI-GORAKHPUR	2	0	452	0.0	7.8	-7.8
13	400 kV	BIHARSHARIFF-VARANASI	2	71	287	0.0	3.0	-3.0
14	220 kV	SAHUPURI-KARAMNASA	1	0	151	0.0	2.4	-2.4
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	0.4	98.6	-98.1
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	629	0	21.4	0.0	21.4
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1268	420	13.6	0.0	13.6
3	765 kV	JHARSUGUDA-DURG	2	0	314	0.0	1.9	-1.9
4	400 kV	JHARSUGUDA-RAIGARH	4	0	312	0.0	5.3	-5.3
5	400 kV	RANCHI-SIPAT	2	232	242	0.8	0.0	0.8
6	220 kV	BUDHIPADAR-RAIGARH	1	0	40	0.0	1.0	-1.0
7	220 kV	BUDHIPADAR-KORBA	2	170	15	2.0	0.0	2.0
					ER-WR	37.8	8.1	29.7
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	335	407	2.1	0.0	2.1
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1991	0.0	41.4	-41.4
3	765 kV	ANGUL-SRIKAKULAM	2	0	3044	0.0	47.7	-47.7
4	400 kV	TALCHER-I/C	2	610	716	1.2	0.0	1.2
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
					ER-SR	2.1	89.1	-87.0
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	417	0.0	6.1	-6.1
2	400 kV	ALIPURDUAR-BONGAIGAON	2	118	438	0.0	4.9	-4.9
3	220 kV	ALIPURDUAR-SALAKATI	2	0	119	0.0	1.8	-1.8
					ER-NER	0.0	12.9	-12.9
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	1005	0.0	23.9	-23.9
					NER-NR	0.0	23.9	-23.9
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2542	0.0	27.4	-27.4
2	HVDC	VINDHYACHAL B/B	-	271	0	6.6	0.0	6.6
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1517	0.0	23.0	-23.0
4	765 kV	GWALIOR-AGRA	2	221	2095	0.1	24.4	-24.3
5	765 kV	GWALIOR-PHAGI	2	0	1649	0.0	22.9	-22.9
6	765 kV	JABALPUR-ORAI	2	0	841	0.0	20.5	-20.5
7	765 kV	GWALIOR-ORAI	1	744	0	13.0	0.0	13.0
8	765 kV	SATNA-ORAI	1	0	959	0.0	18.3	-18.3
9	765 kV	BANASKANTHA-CHITORGARH	2	1775	170	20.6	0.1	20.5
10	765 kV	VINDHYACHAL-VARANASI	2	0	3373	0.0	54.1	-54.1
11	400 kV	ZERDA-KANKROLI	1	366	15	4.2	0.0	4.2
12	400 kV	ZERDA -BHINMAL	1	474	3	6.1	0.0	6.1
13	400 kV	VINDHYACHAL -RIHAND	1	946	0	21.0	0.0	21.0
14	400 kV	RAPP-SHUJALPUR	2	0	0	0.0	0.0	0.0
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	107	0	0.7	0.0	0.7
18	220 kV	MALANPUR-AURAIYA	1	77	10	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	73.5	192.9	-119.4
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	987	0	24.0	0.0	24.0
2	HVDC	RAIGARH-PUGALUR	2	2405	0	46.1	0.0	46.1
3	765 kV	SOLAPUR-RAICHUR	2	896	1620	3.4	8.0	-4.6
4	765 kV	WARDHA-NIZAMABAD	2	0	2843	0.0	40.3	-40.3
5	400 kV	KOLHAPUR-KUDGI	2	1442	0	23.9	0.0	23.9
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	2.0	0.0	2.0
					WR-SR	99.3	48.3	51.0

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)	617	0	517	12.4
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1106	0	1093	26.2
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	301	0	109	2.6
	NER	132kV GELEPHU-SALAKATI	26	7	15	0.4
	NER	132kV MOTANGA-RANGIA	45	9	35	0.9
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-74	0	-44	-1.1
	ER	NEPAL IMPORT (FROM BIHAR)	-7	-3	-5	-0.1
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	395	225	347	8.3
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-927	-872	-896	-21.5
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-174	0	-148	-3.5