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: 08th July 2021

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 07.07.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 07-जुलाई-2021 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 07th July 2021, 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: 08-Jul-2021**

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)	66925	52527	39766	21540	2879	183637
Peak Shortage (MW)	1710	0	0	0	2	1712
Energy Met (MU)	1642	1319	996	496	55	4508
Hydro Gen (MU)	356	51	109	137	27	680
Wind Gen (MU)	48	104	61	-	-	212
Solar Gen (MU)*	48.62	38.28	100.96	5.04	0.21	193
Energy Shortage (MU)	16.99	0.10	0.00	0.00	0.04	17.13
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	72827	59201	47403	22833	2997	200570
Time Of Maximum Demand Met (From NLDC SCADA)	12:14	14:58	12:00	00:12	19:08	12:01

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	0.030	0.00	0.07	6.45	6.52	79.11	14.37

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	12438	0	292.9	175.8	-0.7	181	12.78
	Haryana	12039	0	266.2	197.3	0.8	349	0.00
	Rajasthan	13504	0	294.7	66.0	-1.3	533	0.00
	Delhi	7045	0	142.3	128.8	-1.3	197	0.00
	UP	23596	0	514.5	239.2	2.0	527	0.00
	Uttarakhand	2235	0	48.9	20.5	1.0	153	0.76
	HP	1592	0	31.8	0.0	-2.9	0	0.00
	J&K(UT) & Ladakh(UT)	2101	0	42.6	20.6	0.9	696	3.45
	Chandigarh	408	0	8.3	8.1	0.3	50	0.00
WR	Chhattisgarh	4189	0	96.4	54.5	0.7	315	0.10
	Gujarat	18794	0	406.5	154.7	0.5	607	0.00
	MP	10546	0	238.6	129.9	4.0	723	0.00
	Maharashtra	24089	0	520.5	179.6	-4.3	455	0.00
	Goa	556	0	12.1	10.0	1.5	61	0.00
	DD	331	0	7.5	7.2	0.3	31	0.00
	DNH	844	0	19.2	18.9	0.3	70	0.00
	AMNSIL	904	0	18.6	5.9	-0.9	241	0.00
SR	Andhra Pradesh	8978	0	182.5	66.7	-0.3	808	0.00
	Telangana	10733	0	211.4	90.8	-0.5	834	0.00
	Karnataka	9854	0	194.8	50.6	-0.4	552	0.00
	Kerala	3573	0	75.6	47.3	0.1	263	0.00
	Tamil Nadu	14663	0	323.1	160.6	-1.7	509	0.00
	Puducherry	408	0	8.5	8.5	0.1	35	0.00
ER	Bihar	6556	0	122.9	113.4	-0.1	390	0.00
	DVC	2973	0	64.0	-57.4	-0.4	320	0.00
	Jharkhand	1432	0	30.2	24.3	-1.3	308	0.00
	Odisha	5005	0	104.5	35.4	1.9	560	0.00
	West Bengal	8579	0	172.1	39.7	-0.6	1286	0.00
	Sikkim	125	0	2.0	1.5	0.5	51	0.00
NER	Arunachal Pradesh	125	1	2.4	2.4	-0.2	13	0.01
	Assam	1879	0	35.8	30.2	0.4	96	0.00
	Manipur	205	1	2.7	2.6	0.0	28	0.01
	Meghalaya	310	0	5.8	2.0	-0.3	24	0.00
	Mizoram	101	1	1.4	1.6	-0.3	42	0.01
	Nagaland	123	1	2.5	2.4	0.0	17	0.01
	Tripura	265	0	4.5	3.9	-0.5	20	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	43.9	-7.1	-22.4
Day Peak (MW)	2072.0	-473.9	-949.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	375.2	-236.1	19.6	-154.2	-4.5	0.0
Actual(MU)	373.2	-230.3	7.8	-149.1	-7.8	-6.2
O/D/U/D(MU)	-2.1	5.8	-11.8	5.2	-3.2	-6.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4802	14056	7072	1060	588	27578	45
State Sector	7096	16360	6895	3745	11	34107	55
Total	11898	30416	13967	4805	600	61685	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	726	1249	606	531	17	3129	68
Lignite	31	11	41	0	0	83	2
Hydro	356	51	109	137	27	680	15
Nuclear	28	33	46	0	0	107	2
Gas, Naptha & Diesel	38	46	11	0	24	119	3
RES (Wind, Solar, Biomass & Others)	115	142	188	5	0	450	10
Total	1294	1532	1001	673	68	4568	100

Share of RES in total generation (%)	8.90	9.27	18.74	0.75	0.31	9.85
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	38.58	14.73	34.28	21.11	40.28	27.09

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.023
Based on State Max Demands	1.052

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: 08-Jul-2021

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	1507	0.0	36.3	-36.3
2	HVDC	PUSAULI B/B	-	0	247	0.0	6.3	-6.3
3	765 kV	GAYA-VARANASI	2	0	760	0.0	13.3	-13.3
4	765 kV	SASARAM-FATEHPUR	1	102	180	0.0	0.8	-0.8
5	765 kV	GAYA-BALIA	1	0	701	0.0	12.8	-12.8
6	400 kV	PUSAULI-VARANASI	1	0	226	0.0	5.1	-5.1
7	400 kV	PUSAULI -ALLAHABAD	1	0	78	0.0	1.0	-1.0
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	683	0.0	12.2	-12.2
9	400 kV	PATNA-BALIA	4	0	1086	0.0	24.2	-24.2
10	400 kV	BIHARSHARIFF-BALIA	2	0	482	0.0	9.1	-9.1
11	400 kV	MOTIHARI-GORAKHPUR	2	0	405	0.0	7.9	-7.9
12	400 kV	BIHARSHARIFF-VARANASI	2	0	302	0.0	5.9	-5.9
13	220 kV	PUSAULI-SAHUPURI	1	0	108	0.0	1.8	-1.8
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	20	0	0.7	0.0	0.7
16	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0
17	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	0.7	136.7	-136.0
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	559	677	4.6	0.0	4.6
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1307	0	19.5	0.0	19.5
3	765 kV	JHARSUGUDA-DURG	2	167	101	1.1	0.0	1.1
4	400 kV	JHARSUGUDA-RAIGARH	4	210	424	0.0	4.0	-4.0
5	400 kV	RANCHI-SIPAT	2	346	28	4.5	0.0	4.5
6	220 kV	BUDHIPADAR-RAIGARH	1	0	122	0.0	1.0	-1.0
7	220 kV	BUDHIPADAR-KORBA	2	153	0	2.4	0.0	2.4
					ER-WR	32.1	5.0	27.1
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	355	0.0	7.7	-7.7
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1636	0.0	35.4	-35.4
3	765 kV	ANGUL-SRIKAKULAM	2	0	1965	0.0	33.0	-33.0
4	400 kV	TALCHER-I/C	2	622	0	7.3	0.0	7.3
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	76.0	-76.0
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	398	0.0	6.5	-6.5
2	400 kV	ALIPURDUAR-BONGAIGAON	2	80	287	0.0	3.1	-3.1
3	220 kV	ALIPURDUAR-SALAKATI	2	0	115	0.0	2.0	-2.0
					ER-NER	0.0	11.6	-11.6
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	858	0.0	20.5	-20.5
					NER-NR	0.0	20.5	-20.5
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	5041	0.0	74.7	-74.7
2	HVDC	VINDHYACHAL B/B	-	0	203	0.0	4.8	-4.8
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1915	0.0	45.5	-45.5
4	765 kV	GWALIOR-AGRA	2	0	2976	0.0	49.2	-49.2
5	765 kV	PHAGI-GWALIOR	2	0	1722	0.0	31.5	-31.5
6	765 kV	JABALPUR-ORAI	2	0	1171	0.0	39.4	-39.4
7	765 kV	GWALIOR-ORAI	1	788	0	14.0	0.0	14.0
8	765 kV	SATNA-ORAI	1	0	1383	0.0	27.7	-27.7
9	765 kV	CHITORGARH-BANASKANTHA	2	976	251	5.3	0.0	5.3
10	400 kV	ZERDA-KANKROLI	1	259	0	3.8	0.0	3.8
11	400 kV	ZERDA -BHINMAL	1	587	0	8.4	0.0	8.4
12	400 kV	VINDHYACHAL -RIHAND	1	969	0	20.5	0.0	20.5
13	400 kV	RAPP-SHUJALPUR	2	34	481	0.0	5.4	-5.4
14	220 kV	BHANPURA-RANPUR	1	0	89	0.0	1.2	-1.2
15	220 kV	BHANPURA-MORAK	1	0	30	0.1	0.5	-0.5
16	220 kV	MEHGAON-AURAIYA	1	119	0	0.6	0.0	0.5
17	220 kV	MALANPUR-AURAIYA	1	81	17	1.3	0.0	1.3
18	132 kV	GWALIOR-SAWAI MADHOPUR	1	0	0	0.0	0.0	0.0
19	132 kV	RAJGHAT-LALITPUR	2	0	0	0.0	0.0	0.0
					WR-NR	53.9	279.9	-226.0
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	300	0	7.1	0.0	7.1
2	HVDC	RAIGARH-PUGALUR	2	966	0	23.2	0.0	23.2
3	765 kV	SOLAPUR-RAICHUR	2	1154	1487	2.2	0.0	2.2
4	765 kV	WARDHA-NIZAMABAD	2	89	2204	0.0	31.6	-31.6
5	400 kV	KOLHAPUR-KUDGI	2	1231	0	20.4	0.0	20.4
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	1	72	1.0	0.0	1.0
					WR-SR	53.9	31.6	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)	665	637	639	15.3
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1009	798	877	21.1
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	312	0	252	6.0
	NER	132kV GELEPHU-SALAKATI	-36	-28	30	0.7
	NER	132kV MOTANGA-RANGIA	-51	-21	31	0.7
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-73	0	-57	-1.4
	ER	NEPAL IMPORT (FROM BIHAR)	-210	0	-96	-2.3
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-191	-43	-142	-3.4
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-829	-814	-819	-19.7
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-120	0	-113	-2.7