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: 27th 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 26.07.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 26-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 26th 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:** **27-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)	63617	46696	39758	24422	3019	177512
Peak Shortage (MW)	820	0	0	0	0	820
Energy Met (MU)	1462	1060	911	521	59	4012
Hydro Gen (MU)	377	27	127	123	30	685
Wind Gen (MU)	60	219	213	-	-	492
Solar Gen (MU)*	45.11	19.64	96.58	4.23	0.21	166
Energy Shortage (MU)	3.49	0.00	0.00	0.00	0.07	3.56
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	66730	46745	42425	24549	3045	179088
Time Of Maximum Demand Met (From NLDC SCADA)	22:28	19:34	09:55	20:44	19:04	19:53

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	0.032	0.00	0.52	6.01	6.53	78.42	15.06

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	11820	0	276.6	177.9	-1.0	73	0.00
	Haryana	9628	0	211.3	180.5	0.7	368	0.04
	Rajasthan	11724	0	253.7	71.6	-3.3	88	0.00
	Delhi	5854	0	123.7	110.4	-1.5	143	0.00
	UP	23577	0	475.8	223.3	-1.0	426	0.00
	Uttarakhand	1994	0	42.9	16.5	0.3	278	0.00
	HP	1505	0	28.9	-6.8	-3.4	0	0.00
	J&K(UT) & Ladakh(UT)	2319	250	43.0	18.6	-0.9	257	3.45
	Chandigarh	305	0	6.3	6.3	0.0	34	0.00
WR	Chhattisgarh	4064	0	95.8	50.1	-0.7	262	0.00
	Gujarat	13653	0	299.6	115.7	0.8	921	0.00
	MP	8905	0	198.9	105.5	-1.8	441	0.00
	Maharashtra	18944	0	408.2	124.1	-4.0	583	0.00
	Goa	572	0	11.9	10.9	0.4	33	0.00
	DD	313	0	6.8	6.7	0.1	25	0.00
	DNH	833	0	19.0	19.0	0.0	36	0.00
	AMNSIL	881	0	19.4	6.8	-0.1	320	0.00
SR	Andhra Pradesh	8291	0	175.8	40.2	-0.1	486	0.00
	Telangana	9676	0	194.4	77.2	-0.1	400	0.00
	Karnataka	7642	0	149.1	5.0	0.3	1663	0.00
	Kerala	3414	0	67.6	27.1	-0.9	463	0.00
	Tamil Nadu	14319	0	315.2	129.0	-0.8	501	0.00
	Puducherry	401	0	8.6	8.5	0.1	57	0.00
ER	Bihar	6751	0	133.4	125.8	1.3	575	0.00
	DVC	3048	0	65.1	-39.7	-0.4	246	0.00
	Jharkhand	1643	0	31.1	27.0	-2.4	126	0.00
	Odisha	6008	0	115.4	40.6	-0.2	465	0.00
	West Bengal	8400	0	174.6	55.7	0.4	472	0.00
	Sikkim	89	0	1.4	0.6	0.7	80	0.00
NER	Arunachal Pradesh	123	0	2.2	2.2	0.0	55	0.01
	Assam	2001	0	38.7	32.2	0.4	191	0.00
	Manipur	192	0	2.6	2.4	0.2	41	0.01
	Meghalaya	301	0	5.7	1.6	-0.2	60	0.00
	Mizoram	103	0	1.6	1.5	-0.1	16	0.01
	Nagaland	131	0	2.5	2.2	-0.2	24	0.01
	Tripura	291	0	5.2	5.2	0.0	59	0.03

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	36.4	-2.2	-22.2
Day Peak (MW)	1602.0	-210.0	-961.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	386.9	-277.8	-18.3	-86.7	-4.2	0.0
Actual(MU)	383.3	-292.4	-17.5	-78.1	-3.3	-8.0
O/D/U/D(MU)	-3.6	-14.7	0.8	8.6	0.9	-8.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7692	15675	9692	660	259	33977	41
State Sector	9865	22095	11308	5420	47	48735	59
Total	17557	37770	21000	6080	305	82712	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	553	1033	384	492	11	2473	60
Lignite	17	10	39	0	0	66	2
Hydro	377	27	127	123	30	685	17
Nuclear	26	33	42	0	0	100	2
Gas, Naptha & Diesel	23	25	11	0	27	85	2
RES (Wind, Solar, Biomass & Others)	121	239	339	4	0	703	17
Total	1117	1367	942	620	67	4113	100

Share of RES in total generation (%)	10.82	17.15	35.97	0.68	0.31	16.98
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	46.91	21.54	53.92	20.59	44.36	36.10

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.025
Based on State Max Demands	1.059

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: 27-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	2301	0.0	35.8	-35.8
2	HVDC	PUSAULI B/B	-	0	245	0.0	6.2	-6.2
3	765 kV	GAYA-VARANASI	2	0	692	0.0	9.7	-9.7
4	765 kV	SASARAM-FATEHPUR	1	370	0	3.8	0.0	3.8
5	765 kV	GAYA-BALIA	1	0	659	0.0	10.9	-10.9
6	400 kV	PUSAULI-VARANASI	1	0	234	0.0	4.9	-4.9
7	400 kV	PUSAULI -ALLAHABAD	1	0	88	0.0	1.1	-1.1
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	547	0.0	7.7	-7.7
9	400 kV	PATNA-BALIA	4	0	980	0.0	15.1	-15.1
10	400 kV	BIHARSHARIFF-BALIA	2	0	184	0.0	2.7	-2.7
11	400 kV	MOTIHARI-GORAKHPUR	2	0	349	0.0	5.2	-5.2
12	400 kV	BIHARSHARIFF-VARANASI	2	55	191	0.0	1.2	-1.2
13	220 kV	PUSAULI-SAHUPURI	1	0	162	0.0	2.9	-2.9
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	4.5	103.3	-98.9
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	894	186	5.6	0.0	5.6
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	2130	0	36.8	0.0	36.8
3	765 kV	JHARSUGUDA-DURG	2	515	0	6.5	0.0	6.5
4	400 kV	JHARSUGUDA-RAIGARH	4	262	115	1.7	0.0	1.7
5	400 kV	RANCHI-SIPAT	2	580	0	9.4	0.0	9.4
6	220 kV	BUDHIPADAR-RAIGARH	1	12	91	0.0	0.9	-0.9
7	220 kV	BUDHIPADAR-KORBA	2	170	0	2.5	0.0	2.5
					ER-WR	62.4	0.9	61.5
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	303	392	3.7	0.0	3.7
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1344	0.0	32.5	-32.5
3	765 kV	ANGUL-SRIKAKULAM	2	0	2181	0.0	31.7	-31.7
4	400 kV	TALCHER-I/C	2	71	594	0.0	5.2	-5.2
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	3.7	64.2	-60.5
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	487	0.0	6.4	-6.4
2	400 kV	ALIPURDUAR-BONGAIGAON	2	36	341	0.0	3.4	-3.4
3	220 kV	ALIPURDUAR-SALAKATI	2	0	126	0.0	2.2	-2.2
					ER-NER	0.0	12.0	-12.0
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	5037	0.0	84.2	-84.2
2	HVDC	VINDHYACHAL B/B	-	244	254	1.9	2.7	-0.7
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1915	0.0	31.4	-31.4
4	765 kV	GWALIOR-AGRA	2	0	3401	0.0	65.0	-65.0
5	765 kV	GWALIOR-PHAGI	2	0	1515	0.0	26.4	-26.4
6	765 kV	JABALPUR-ORAI	2	0	1240	0.0	47.0	-47.0
7	765 kV	GWALIOR-ORAI	1	783	0	13.8	0.0	13.8
8	765 kV	SATNA-ORAI	1	0	1454	0.0	30.7	-30.7
9	765 kV	BANASKANTHA-CHITORGARH	2	0	1077	0.0	17.6	-17.6
10	400 kV	ZERDA-KANKROLI	1	36	101	0.0	1.0	-1.0
11	400 kV	ZERDA -BHINMAL	1	266	0	3.1	0.0	3.1
12	400 kV	VINDHYACHAL -RIHAND	1	970	0	22.2	0.0	22.2
13	400 kV	RAPP-SHUJALPUR	2	0	538	0.0	9.1	-9.1
14	220 kV	BHANPURA-RANPUR	1	0	157	0.0	3.2	-3.2
15	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.9	-2.9
16	220 kV	MEHGAON-AURAIYA	1	80	16	0.1	0.4	-0.3
17	220 kV	MALANPUR-AURAIYA	1	40	49	0.6	0.0	0.6
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	41.7	321.6	-280.0
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	598	0	14.6	0.0	14.6
2	HVDC	RAIGARH-PUGALUR	2	1118	0	19.8	0.0	19.8
3	765 kV	SOLAPUR-RAICHUR	2	1615	700	14.6	0.0	14.6
4	765 kV	WARDHA-NIZAMABAD	2	0	1959	0.0	20.3	-20.3
5	400 kV	KOLHAPUR-KUDGI	2	1294	0	19.1	0.0	19.1
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	81	1.5	0.0	1.5
					WR-SR	69.6	20.3	49.4

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)	655	0	625	15.0
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	546	524	539	12.9
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	317	0	287	6.9
	NER	132kV GELEPHU-SALAKATI	26	16	22	0.5
	NER	132kV MOTANGA-RANGIA	58	27	46	1.1
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-73	0	-44	-1.1
	ER	NEPAL IMPORT (FROM BIHAR)	-77	-9	-16	-0.4
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-60	-2	-32	-0.8
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-821	-802	-805	-19.3
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-140	0	-120	-2.9