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: 03rd 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 02.07.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 02-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 02nd 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: 03-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)	61359	48960	40950	21262	2715	175246
Peak Shortage (MW)	680	0	0	0	4	684
Energy Met (MU)	1599	1189	1004	446	49	4288
Hydro Gen (MU)	353	37	118	134	26	667
Wind Gen (MU)	63	215	130	-	-	407
Solar Gen (MU)*	52.32	34.64	74.94	5.28	0.08	167
Energy Shortage (MU)	3.54	0.00	0.00	0.00	0.04	3.58
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	73232	50733	46947	21415	2823	188583
Time Of Maximum Demand Met (From NLDC SCADA)	12:39	15:45	09:53	21:11	19:59	11:55

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	0.033	0.00	0.00	2.07	2.07	70.85	27.08

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	13361	0	304.6	170.1	-2.2	107	0.00
	Haryana	11776	0	258.0	192.8	0.3	316	0.09
	Rajasthan	13499	0	289.6	59.5	-0.9	566	0.00
	Delhi	7244	0	141.0	127.4	-1.1	266	0.00
	UP	23013	450	480.5	255.4	-1.0	424	0.00
	Uttarakhand	2269	0	47.3	18.4	0.7	206	0.00
	HP	1463	0	28.5	-1.5	-2.5	7	0.00
	J&K(UT) & Ladakh(UT)	2028	100	41.7	18.4	-1.3	175	3.45
	Chandigarh	409	0	7.6	7.6	0.0	33	0.00
WR	Chhattisgarh	3794	0	90.4	51.8	-0.8	225	0.00
	Gujarat	16241	0	362.4	95.1	1.9	774	0.00
	MP	9517	0	216.0	104.2	-1.8	388	0.00
	Maharashtra	20622	0	462.3	151.2	0.4	683	0.00
	Goa	566	0	12.0	11.1	0.3	31	0.00
	DD	331	0	7.3	7.0	0.3	29	0.00
	DNH	808	0	18.7	18.5	0.2	71	0.00
	AMNSIL	865	0	19.9	5.9	0.3	332	0.00
SR	Andhra Pradesh	8480	0	179.6	54.1	-0.4	726	0.00
	Telangana	9947	0	214.9	85.5	0.6	554	0.00
	Karnataka	11408	0	212.6	61.2	1.7	720	0.00
	Kerala	3372	0	72.3	46.0	0.6	250	0.00
	Tamil Nadu	14691	0	316.7	139.0	-3.0	694	0.00
	Puducherry	393	0	8.1	8.6	-0.5	42	0.00
ER	Bihar	6009	0	100.1	94.7	-1.1	470	0.00
	DVC	2858	0	62.2	-49.3	-0.6	341	0.00
	Jharkhand	1445	0	28.7	25.0	-1.6	148	0.00
	Odisha	5081	0	102.9	34.3	-0.3	452	0.00
	West Bengal	7532	0	150.8	32.0	1.7	545	0.00
	Sikkim	117	0	1.6	1.5	0.1	43	0.00
NER	Arunachal Pradesh	125	1	2.2	2.2	-0.2	26	0.01
	Assam	1718	0	30.8	24.4	-0.4	130	0.00
	Manipur	180	1	2.5	2.5	0.0	24	0.01
	Meghalaya	309	0	5.9	1.9	0.0	32	0.00
	Mizoram	105	0	1.7	1.5	0.0	20	0.01
	Nagaland	129	1	2.4	2.3	0.1	19	0.01
	Tripura	249	1	4.0	2.9	-0.3	21	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	46.9	-3.3	-17.4
Day Peak (MW)	1972.0	-354.0	-800.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	386.5	-291.7	66.0	-155.3	-5.6	0.0
Actual(MU)	396.6	-284.6	57.3	-167.3	-7.1	-5.1
O/D/U/D(MU)	10.2	7.1	-8.8	-12.1	-1.6	-5.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3805	17598	7522	460	588	29973	45
State Sector	8180	17581	7615	3385	11	36772	55
Total	11985	35179	15137	3845	600	66745	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	644	1060	511	500	10	2724	63
Lignite	26	11	46	0	0	84	2
Hydro	353	37	118	134	26	667	15
Nuclear	30	33	46	0	0	109	3
Gas, Naptha & Diesel	44	39	11	0	26	120	3
RES (Wind, Solar, Biomass & Others)	133	249	228	5	0	616	14
Total	1230	1430	960	639	62	4320	100

Share of RES in total generation (%)	10.81	17.44	23.75	0.83	0.13	14.25
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	41.93	22.32	40.82	21.79	42.26	32.22

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.035
Based on State Max Demands	1.071

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: 03-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	1504	0.0	30.1	-30.1
2	HVDC	PUSAULI B/B	-	0	248	0.0	5.9	-5.9
3	765 kV	GAYA-VARANASI	2	0	851	0.0	15.0	-15.0
4	765 kV	SASARAM-FATEHPUR	1	83	196	0.0	1.9	-1.9
5	765 kV	GAYA-BALIA	1	0	678	0.0	13.1	-13.1
6	400 kV	PUSAULI-VARANASI	1	0	202	0.0	4.2	-4.2
7	400 kV	PUSAULI -ALLAHABAD	1	0	94	0.0	1.6	-1.6
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	1000	0.0	17.5	-17.5
9	400 kV	PATNA-BALIA	4	0	1287	0.0	25.6	-25.6
10	400 kV	BIHARSHARIFF-BALIA	2	0	551	0.0	9.7	-9.7
11	400 kV	MOTIHARI-GORAKHPUR	2	0	614	0.0	10.0	-10.0
12	400 kV	BIHARSHARIFF-VARANASI	2	0	326	0.0	6.7	-6.7
13	220 kV	PUSAULI-SAHUPURI	1	6	129	0.0	1.9	-1.9
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	20	0	0.6	0.0	0.6
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	0.6	143.1	-142.5
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	388	627	0.0	3.0	-3.0
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1053	0	16.1	0.0	16.1
3	765 kV	JHARSUGUDA-DURG	2	98	129	0.0	0.7	-0.7
4	400 kV	JHARSUGUDA-RAIGARH	4	175	170	0.6	0.0	0.6
5	400 kV	RANCHI-SIPAT	2	306	3	4.6	0.0	4.6
6	220 kV	BUDHIPADAR-RAIGARH	1	0	109	0.0	1.5	-1.5
7	220 kV	BUDHIPADAR-KORBA	2	141	0	2.6	0.0	2.6
					ER-WR	23.9	5.1	18.8
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	549	0.0	12.4	-12.4
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1630	0.0	34.0	-34.0
3	765 kV	ANGUL-SRIKAKULAM	2	0	1916	0.0	28.4	-28.4
4	400 kV	TALCHER-I/C	2	655	0	8.3	0.0	8.3
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	74.7	-74.7
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	434	0.0	7.2	-7.2
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	368	0.0	5.8	-5.8
3	220 kV	ALIPURDUAR-SALAKATI	2	0	123	0.0	2.2	-2.2
					ER-NER	0.0	15.2	-15.2
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	1005	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	4047	0.0	66.2	-66.2
2	HVDC	VINDHYACHAL B/B	-	0	101	0.0	1.4	-1.4
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1915	0.0	48.4	-48.4
4	765 kV	GWALIOR-AGRA	2	0	3201	0.0	57.5	-57.5
5	765 kV	PHAGI-GWALIOR	2	0	1349	0.0	25.9	-25.9
6	765 kV	JABALPUR-ORAI	2	0	1077	0.0	38.6	-38.6
7	765 kV	GWALIOR-ORAI	1	616	0	11.5	0.0	11.5
8	765 kV	SATNA-ORAI	1	0	1526	0.0	31.9	-31.9
9	765 kV	CHITORGARH-BANASKANTHA	2	281	714	0.0	4.9	-4.9
10	400 kV	ZERDA-KANKROLI	1	190	0	2.0	0.0	2.0
11	400 kV	ZERDA -BHINMAL	1	422	0	7.3	0.0	7.3
12	400 kV	VINDHYACHAL -RIHAND	1	954	0	22.3	0.0	22.3
13	400 kV	RAPP-SHUJALPUR	2	0	364	0.0	5.1	-5.1
14	220 kV	BHANPURA-RANPUR	1	0	101	0.0	1.4	-1.4
15	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.8	-0.8
16	220 kV	MEHGAON-AURAIYA	1	100	2	0.2	0.2	0.0
17	220 kV	MALANPUR-AURAIYA	1	63	29	0.7	0.0	0.7
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	44.2	282.4	-238.3
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	297	312	3.7	3.6	0.0
2	HVDC	RAIGARH-PUGALUR	2	0	1305	0.0	25.1	-25.1
3	765 kV	SOLAPUR-RAICHUR	2	1217	983	5.8	0.0	5.8
4	765 kV	WARDHA-NIZAMABAD	2	0	2092	0.0	27.2	-27.2
5	400 kV	KOLHAPUR-KUDGI	2	1197	0	18.7	0.0	18.7
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	74	1.5	0.0	1.5
					WR-SR	29.5	55.9	-26.4

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)	661	0	581	13.9
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1035	0	1023	24.6
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	324	0	273	6.5
	NER	132kV GELEPHU-SALAKATI	57	26	35	0.8
	NER	132kV MOTANGA-RANGIA	53	39	44	1.1
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-71	0	-36	-0.9
	ER	NEPAL IMPORT (FROM BIHAR)	-107	0	-7	-0.2
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-176	-2	-96	-2.3
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-684	-571	-627	-15.0
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-116	0	-96	-2.3