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: 06th 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 05.07.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 05-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 05th 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: 06-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)	65012	51200	41207	22531	2965	182915
Peak Shortage (MW)	1205	0	0	0	14	1219
Energy Met (MU)	1558	1267	968	490	54	4337
Hydro Gen (MU)	353	53	120	140	27	692
Wind Gen (MU)	22	82	59	-	-	163
Solar Gen (MU)*	53.42	35.83	87.37	5.73	0.18	183
Energy Shortage (MU)	14.80	0.00	0.00	0.00	0.04	14.84
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	70280	56767	44920	22934	3127	192169
Time Of Maximum Demand Met (From NLDC SCADA)	12:19	15:27	14:50	21:02	20:01	12:31

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	0.045	0.00	1.72	10.50	12.22	75.95	11.83

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	12839	450	301.7	179.6	-0.8	182	7.70
	Haryana	11266	0	243.4	195.6	-1.0	236	0.00
	Rajasthan	12900	323	275.7	80.5	2.2	646	0.00
	Delhi	6437	0	127.5	116.7	-1.2	302	0.01
	UP	22864	370	482.5	227.2	1.2	651	3.20
	Uttarakhand	2206	0	46.6	18.7	0.2	131	0.44
	HP	1482	0	29.0	-2.1	-3.1	0	0.00
	J&K(UT) & Ladakh(UT)	2283	250	44.4	18.9	0.8	322	3.45
	Chandigarh	387	0	7.3	7.3	0.0	36	0.00
WR	Chhattisgarh	3735	0	85.4	47.0	-2.3	540	0.00
	Gujarat	17731	0	382.8	148.9	0.5	351	0.00
	MP	10089	0	229.7	123.5	6.4	1154	0.00
	Maharashtra	23797	0	514.0	181.4	-2.7	962	0.00
	Goa	558	0	11.2	10.7	-0.1	82	0.00
	DD	333	0	7.2	6.7	0.5	43	0.00
	DNH	828	0	19.1	18.4	0.7	72	0.00
	AMNSIL	817	0	17.1	4.2	0.0	248	0.00
SR	Andhra Pradesh	8146	0	171.9	50.0	1.8	1200	0.00
	Telangana	10615	0	219.9	78.2	0.6	640	0.00
	Karnataka	10182	0	196.4	54.9	1.4	684	0.00
	Kerala	3428	0	72.1	45.1	-0.2	227	0.00
	Tamil Nadu	13962	0	300.4	158.3	-2.4	472	0.00
	Puducherry	386	0	7.6	7.8	-0.2	45	0.00
ER	Bihar	6207	0	124.5	112.2	2.0	424	0.00
	DVC	2883	0	63.0	-52.0	-0.3	440	0.00
	Jharkhand	1476	0	27.5	23.9	-2.3	197	0.00
	Odisha	5267	0	105.9	33.0	-0.4	313	0.00
	West Bengal	8530	0	167.1	34.4	1.8	49	0.00
	Sikkim	124	0	2.0	1.5	0.5	566	0.00
NER	Arunachal Pradesh	135	1	2.2	2.3	-0.3	42	0.01
	Assam	1912	0	34.3	26.6	0.4	99	0.00
	Manipur	197	1	2.7	2.5	0.2	38	0.01
	Meghalaya	335	0	6.2	1.8	0.3	30	0.00
	Mizoram	106	1	1.6	1.6	-0.1	16	0.01
	Nagaland	145	1	2.4	2.4	0.1	30	0.01
	Tripura	285	10	4.7	3.9	0.0	48	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	50.7	-6.8	-22.2
Day Peak (MW)	2568.0	-459.5	-951.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	393.5	-225.5	16.2	-178.6	-5.6	0.0
Actual(MU)	399.1	-210.7	-5.0	-179.7	-8.0	-4.2
O/D/U/D(MU)	5.6	14.9	-21.2	-1.1	-2.4	-4.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5060	15176	7072	210	738	28256	44
State Sector	8955	15471	6775	4195	11	35407	56
Total	14015	30647	13847	4405	750	63664	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	650	1242	597	555	15	3060	69
Lignite	28	12	40	0	0	80	2
Hydro	353	53	120	140	27	692	16
Nuclear	26	32	46	0	0	105	2
Gas, Naptha & Diesel	36	41	11	0	25	113	3
RES (Wind, Solar, Biomass & Others)	94	118	171	6	0	389	9
Total	1187	1498	986	701	67	4439	100

Share of RES in total generation (%)	7.93	7.85	17.38	0.82	0.27	8.77
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	39.87	13.55	34.23	20.74	40.37	26.72

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.030
Based on State Max Demands	1.066

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: 06-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	1203	0.0	28.9	-28.9
2	HVDC	PUSAULI B/B	-	0	249	0.0	5.9	-5.9
3	765 kV	GAYA-VARANASI	2	0	1102	0.0	18.9	-18.9
4	765 kV	SASARAM-FATEHPUR	1	0	329	0.0	4.6	-4.6
5	765 kV	GAYA-BALIA	1	0	703	0.0	14.2	-14.2
6	400 kV	PUSAULI-VARANASI	1	0	210	0.0	4.2	-4.2
7	400 kV	PUSAULI -ALLAHABAD	1	0	112	0.0	1.8	-1.8
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	854	0.0	16.3	-16.3
9	400 kV	PATNA-BALIA	4	0	1289	0.0	27.0	-27.0
10	400 kV	BIHARSHARIFF-BALIA	2	0	571	0.0	11.1	-11.1
11	400 kV	MOTIHARI-GORAKHPUR	2	0	458	0.0	8.9	-8.9
12	400 kV	BIHARSHARIFF-VARANASI	2	0	464	0.0	7.8	-7.8
13	220 kV	PUSAULI-SAHUPURI	1	0	155	0.0	2.8	-2.8
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	20	0	0.3	0.0	0.3
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	0.3	152.2	-151.9
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	0	1208	0.0	15.9	-15.9
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1146	99	14.1	0.0	14.1
3	765 kV	JHARSUGUDA-DURG	2	57	234	0.0	2.1	-2.1
4	400 kV	JHARSUGUDA-RAIGARH	4	67	426	0.0	3.8	-3.8
5	400 kV	RANCHI-SIPAT	2	342	46	4.1	0.0	4.1
6	220 kV	BUDHIPADAR-RAIGARH	1	0	149	0.0	2.0	-2.0
7	220 kV	BUDHIPADAR-KORBA	2	150	6	1.8	0.0	1.8
					ER-WR	20.1	23.7	-3.7
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	98	390	0.0	3.4	-3.4
2	HVDC	TALCHER-KOLAR BIPOLE	2	17	1629	0.0	25.9	-25.9
3	765 kV	ANGUL-SRIKAKULAM	2	0	1964	0.0	29.6	-29.6
4	400 kV	TALCHER-I/C	2	1821	273	15.1	0.0	15.1
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	58.9	-58.9
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	364	0.0	5.3	-5.3
2	400 kV	ALIPURDUAR-BONGAIGAON	2	53	337	0.0	3.1	-3.1
3	220 kV	ALIPURDUAR-SALAKATI	2	0	121	0.0	1.9	-1.9
					ER-NER	0.0	10.3	-10.3
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	854	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	3529	0.0	66.8	-66.8
2	HVDC	VINDHYACHAL B/B	-	0	203	0.0	4.8	-4.8
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1916	0.0	48.4	-48.4
4	765 kV	GWALIOR-AGRA	2	0	2873	0.0	53.2	-53.2
5	765 kV	PHAGI-GWALIOR	2	0	1914	0.0	38.7	-38.7
6	765 kV	JABALPUR-ORAI	2	0	1118	0.0	41.6	-41.6
7	765 kV	GWALIOR-ORAI	1	811	0	16.0	0.0	16.0
8	765 kV	SATNA-ORAI	1	0	1472	0.0	30.8	-30.8
9	765 kV	CHITORGARH-BANASKANTHA	2	1116	270	9.9	0.0	9.9
10	400 kV	ZERDA-KANKROLI	1	273	0	3.5	0.0	3.5
11	400 kV	ZERDA -BHINMAL	1	408	8	5.5	0.0	5.5
12	400 kV	VINDHYACHAL -RIHAND	1	962	0	22.4	0.0	22.4
13	400 kV	RAPP-SHUJALPUR	2	0	567	0.0	8.2	-8.2
14	220 kV	BHANPURA-RANPUR	1	0	81	0.0	1.2	-1.2
15	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.6	-0.5
16	220 kV	MEHGAON-AURAIYA	1	108	0	0.5	0.0	0.4
17	220 kV	MALANPUR-AURAIYA	1	75	21	1.1	0.0	1.1
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	58.9	294.2	-235.4
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	591	0	9.5	0.0	9.5
2	HVDC	RAIGARH-PUGALUR	2	574	1002	0.0	6.3	-6.3
3	765 kV	SOLAPUR-RAICHUR	2	2059	369	18.5	0.0	18.5
4	765 kV	WARDHA-NIZAMABAD	2	0	2024	0.0	22.0	-22.0
5	400 kV	KOLHAPUR-KUDGI	2	1173	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	75	1.3	0.0	1.3
					WR-SR	49.8	28.2	21.6

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)	647	0	625	15.0
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1026	1022	1024	24.6
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	287	0	262	6.3
	NER	132kV GELEPHU-SALAKATI	29	19	25	0.6
	NER	132kV MOTANGA-RANGIA	66	24	51	1.2
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-74	0	-45	-1.1
	ER	NEPAL IMPORT (FROM BIHAR)	-221	-4	-121	-2.9
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-164	-30	-117	-2.8
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-815	0	-806	-19.3
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-136	0	-119	-2.9