



National Load Despatch Centre
राष्ट्रीय भार प्रेषण केंद्र
POWER SYSTEM OPERATION CORPORATION LIMITED
पावर 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: 05th 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., डोंगतेह, 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 04.07.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 04-जुलाई-2021 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा०भा०प्रे०के० की वेबसाइट पर उपलब्ध 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 04th 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:

05-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)	61477	48790	36533	21963	2831	171594
Peak Shortage (MW)	640	0	0	0	2	642
Energy Met (MU)	1488	1210	959	482	52	4191
Hydro Gen (MU)	353	38	106	131	30	657
Wind Gen (MU)	36	121	64	-	-	222
Solar Gen (MU)*	54.28	37.19	89.50	4.76	0.06	186
Energy Shortage (MU)	7.24	0.00	0.00	0.00	0.04	7.28
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	68508	53128	44292	22478	2991	181587
Time Of Maximum Demand Met (From NLDC SCADA)	23:08	15:03	09:44	23:19	19:38	00:00

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	0.046	0.00	1.13	6.13	7.27	68.43	24.30

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	12749	0	297.6	174.2	-0.3	149	1.54
	Haryana	10538	0	221.9	173.7	0.8	321	0.20
	Rajasthan	12833	0	269.7	72.2	0.2	621	0.00
	Delhi	5963	0	114.1	103.9	-1.0	258	0.00
	UP	22649	620	462.5	219.2	1.7	743	1.98
	Uttarakhand	1949	0	42.4	14.6	0.6	188	0.07
	HP	1313	0	27.1	-2.6	-2.7	0	0.00
	J&K(UT) & Ladakh(UT)	2291	250	46.9	22.4	-0.1	211	3.45
	Chandigarh	325	0	6.3	6.5	-0.2	19	0.00
WR	Chhattisgarh	3744	0	90.4	49.8	0.3	218	0.00
	Gujarat	15964	0	358.6	137.8	2.0	724	0.00
	MP	9729	0	220.7	123.5	0.3	804	0.00
	Maharashtra	21764	0	488.0	164.8	-1.6	782	0.00
	Goa	506	0	10.4	9.7	0.1	27	0.00
	DD	300	0	6.4	6.2	0.2	23	0.00
	DNH	800	0	18.7	18.4	0.3	57	0.00
	AMNSIL	761	0	16.5	4.0	0.1	298	0.00
	SR	Andhra Pradesh	8323	0	172.6	54.6	-0.7	411
Telangana		10605	0	223.6	78.7	-0.4	487	0.00
Karnataka		10523	0	199.5	53.0	0.6	715	0.00
Kerala		3208	0	66.1	41.7	0.0	243	0.00
Tamil Nadu		13308	0	290.5	148.9	-0.4	819	0.00
Puducherry		337	0	7.2	7.3	-0.1	44	0.00
ER		Bihar	6266	0	119.0	107.9	3.2	432
	DVC	2939	0	63.5	-45.1	0.5	232	0.00
	Jharkhand	1393	0	27.6	23.1	-1.4	130	0.00
	Odisha	5624	0	115.9	50.4	-1.4	380	0.00
	West Bengal	7732	0	155.0	31.5	0.1	448	0.00
	Sikkim	99	0	1.6	1.3	0.3	42	0.00
NER	Arunachal Pradesh	143	1	2.2	2.4	-0.4	15	0.01
	Assam	1828	0	32.3	24.7	0.0	127	0.00
	Manipur	182	1	2.7	2.6	0.0	30	0.01
	Meghalaya	310	0	6.1	2.3	-0.1	28	0.00
	Mizoram	94	1	1.5	1.5	-0.1	30	0.01
	Nagaland	131	1	2.5	2.5	0.0	29	0.01
	Tripura	273	0	4.7	3.6	0.1	16	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	47.5	-6.4	-21.7
Day Peak (MW)	2068.0	-469.9	-948.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	353.0	-222.5	21.0	-143.1	-8.5	0.0
Actual(MU)	347.9	-205.7	12.4	-146.4	-12.0	-3.8
O/D/U/D(MU)	-5.1	16.8	-8.6	-3.3	-3.5	-3.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5260	15676	6862	710	588	29096	44
State Sector	8595	18051	6485	3985	11	37127	56
Total	13855	33727	13347	4695	600	66224	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	610	1164	572	515	13	2875	67
Lignite	27	11	44	0	0	82	2
Hydro	353	38	106	131	30	657	15
Nuclear	27	33	46	0	0	106	2
Gas, Naptha & Diesel	34	34	11	0	26	105	2
RES (Wind, Solar, Biomass & Others)	108	159	178	5	0	450	11
Total	1159	1437	959	651	69	4275	100

Share of RES in total generation (%)	9.35	11.03	18.57	0.73	0.09	10.52
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	42.10	15.92	34.49	20.84	43.21	28.37

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.054
Based on State Max Demands	1.088

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: 05-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	28.1	-28.1	
2	HVDC	PUSAULI B/B	-	0	249	0.0	6.1	-6.1	
3	765 kV	GAYA-VARANASI	2	0	895	0.0	14.2	-14.2	
4	765 kV	SASARAM-FATEHPUR	1	0	314	0.0	3.6	-3.6	
5	765 kV	GAYA-BALIA	1	0	726	0.0	11.5	-11.5	
6	400 kV	PUSAULI-VARANASI	1	0	209	0.0	4.4	-4.4	
7	400 kV	PUSAULI-ALLAHABAD	1	0	116	0.0	1.6	-1.6	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	777	0.0	14.4	-14.4	
9	400 kV	PATNA-BALIA	4	0	1238	0.0	20.4	-20.4	
10	400 kV	BIHARSHARIFF-BALIA	2	0	486	0.0	8.5	-8.5	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	415	0.0	7.5	-7.5	
12	400 kV	BIHARSHARIFF-VARANASI	2	0	369	0.0	5.3	-5.3	
13	220 kV	PUSAULI-SAHUPURI	1	0	156	0.0	2.1	-2.1	
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	127.6	-127.3
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	274	717	0.0	3.0	-3.0	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1277	63	16.6	0.0	16.6	
3	765 kV	JHARSUGUDA-DURG	2	79	199	0.0	1.0	-1.0	
4	400 kV	JHARSUGUDA-RAIGARH	4	162	283	0.0	1.3	-1.3	
5	400 kV	RANCHI-SIPAT	2	361	34	5.1	0.0	5.1	
6	220 kV	BUDHIPADAR-RAIGARH	1	22	98	0.0	1.1	-1.1	
7	220 kV	BUDHIPADAR-KORBA	2	169	0	2.9	0.0	2.9	
						ER-WR	24.5	6.5	18.1
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	553	0.0	12.3	-12.3	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1630	0.0	39.5	-39.5	
3	765 kV	ANGUL-SRIKAKULAM	2	0	1510	0.0	23.3	-23.3	
4	400 kV	TALCHER-I/C	2	231	0	3.8	0.0	3.8	
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0	
						ER-SR	0.0	75.1	-75.1
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	0	415	0.0	4.8	-4.8	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	110	406	0.0	3.1	-3.1	
3	220 kV	ALIPURDUAR-SALAKATI	2	0	130	0.0	1.7	-1.7	
						ER-NER	0.0	9.7	-9.7
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	1005	0.0	23.4	-23.4	
						NER-NR	0.0	23.4	-23.4
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	3027	0.0	50.2	-50.2	
2	HVDC	VINDHYACHAL B/B	-	243	203	0.4	3.3	-2.9	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1916	0.0	48.4	-48.4	
4	765 kV	GWALIOR-AGRA	2	0	3030	0.0	49.9	-49.9	
5	765 kV	PHAGI-GWALIOR	2	0	1900	0.0	34.8	-34.8	
6	765 kV	JABALPUR-ORAI	2	0	1178	0.0	38.0	-38.0	
7	765 kV	GWALIOR-ORAI	1	730	0	14.5	0.0	14.5	
8	765 kV	SATNA-ORAI	1	0	1530	0.0	30.4	-30.4	
9	765 kV	CHITORGARH-BANASKANTHA	2	1281	243	8.6	0.0	8.6	
10	400 kV	ZERDA-KANKROLI	1	306	0	3.8	0.0	3.8	
11	400 kV	ZERDA-BHINMAL	1	565	0	7.2	0.0	7.2	
12	400 kV	VINDHYACHAL-RIHAND	1	964	0	22.1	0.0	22.1	
13	400 kV	RAPP-SHUJALPUR	2	0	527	0.0	6.5	-6.5	
14	220 kV	BHANPURA-RANPUR	1	0	78	0.0	1.1	-1.1	
15	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.5	-0.4	
16	220 kV	MEHGAON-AURAIYA	1	112	0	0.4	0.1	0.4	
17	220 kV	MALANPUR-AURAIYA	1	76	15	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	58.0	263.1	-205.2
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	594	0	10.0	0.0	10.0	
2	HVDC	RAIGARH-PUGALUR	2	0	1306	0.0	18.7	-18.7	
3	765 kV	SOLAPUR-RAICHUR	2	1793	326	21.0	0.0	21.0	
4	765 kV	WARDHA-NIZAMABAD	2	0	1511	0.0	18.6	-18.6	
5	400 kV	KOLHAPUR-KUDGI	2	1240	0	21.4	0.0	21.4	
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	0	73	1.4	0.0	1.4	
						WR-SR	53.8	37.3	16.5
INTERNATIONAL EXCHANGES									
State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Import(+ve)/Export(-ve) Energy Exchange (MU)			
BHUTAN	ER	400kV MANGDECHHU-ALIPURDUAR 1,2&3 i.e. ALIPURDUAR RECEIPT (from MANGDECHHU HEP 4*180MW)	667	0	608	14.6			
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1034	1023	1032	24.8			
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	285	0	265	6.4			
	NER	132kV GELEPHU-SALAKATI	-28	-21	25	0.6			
	NER	132kV MOTANGA-RANGIA	-54	-34	49	1.2			
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-70	0	-56	-1.4			
	ER	NEPAL IMPORT (FROM BIHAR)	-203	-1	-113	-2.7			
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-197	-15	-96	-2.3			
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-822	-718	-792	-19.0			
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-126	0	-113	-2.7			