



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: 09th 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 , लापालंग, 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 08.07.2021.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 08-जुलाई-2021 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रांभांप्रेके 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 08th 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: 09-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)	66058	51232	40302	22398	3024	183014
Peak Shortage (MW)	1754	0	0	0	4	1758
Energy Met (MU)	1623	1261	946	474	56	4360
Hydro Gen (MU)	356	25	102	130	35	648
Wind Gen (MU)	56	146	71	-	-	273
Solar Gen (MU)*	52.18	30.61	81.12	3.89	0.19	168
Energy Shortage (MU)	19.27	0.00	0.00	0.00	0.04	19.31
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	72673	55021	43268	22447	3094	189895
Time Of Maximum Demand Met (From NLDC SCADA)	00:48	14:58	11:57	20:30	19:26	12:28

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	0.027	0.00	0.00	0.67	0.67	70.47	28.86

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	12583	0	293.0	183.1	-1.5	126	15.31
	Haryana	12040	0	265.0	202.5	-1.0	351	0.00
	Rajasthan	13740	0	298.9	70.5	-0.7	359	0.00
	Delhi	7157	0	141.9	130.1	-1.9	295	0.00
	UP	24298	170	490.2	243.5	-2.7	595	0.00
	Uttarakhand	2206	0	48.0	20.5	-0.1	186	0.30
	HP	1560	23	30.3	0.2	-3.3	59	0.21
	J&K(UT) & Ladakh(UT)	2333	250	47.7	22.5	-0.2	165	3.45
	Chandigarh	426	0	8.4	8.2	0.2	56	0.00
WR	Chhattisgarh	3613	0	79.5	42.1	-5.2	310	0.00
	Gujarat	18799	0	408.2	140.2	-0.2	669	0.00
	MP	10295	0	227.3	134.7	-1.6	785	0.00
	Maharashtra	22444	0	487.2	175.0	-4.7	595	0.00
	Goa	547	0	11.8	11.1	0.1	28	0.00
	DD	333	0	7.6	7.4	0.2	23	0.00
	DNH	844	0	19.6	19.4	0.2	49	0.00
	AMNSIL	916	0	20.2	6.2	0.3	335	0.00
	SR	Andhra Pradesh	7955	0	174.3	57.7	1.0	675
Telangana		8229	0	173.1	66.4	-0.7	643	0.00
Karnataka		9998	0	191.6	53.0	0.8	560	0.00
Kerala		3631	0	74.9	52.1	-0.1	258	0.00
Tamil Nadu		14794	0	322.8	153.1	-0.7	1087	0.00
Puducherry		445	0	9.1	8.9	0.2	42	0.00
ER	Bihar	6388	0	116.8	109.7	-0.3	482	0.00
	DVC	2928	0	62.5	-52.3	-1.1	273	0.00
	Jharkhand	1522	0	28.5	24.3	-1.3	193	0.00
	Odisha	4996	0	98.7	31.7	-0.2	630	0.00
	West Bengal	8095	0	165.5	47.1	-0.5	369	0.00
	Sikkim	107	0	1.7	1.5	0.2	34	0.00
NER	Arumachal Pradesh	132	1	2.4	2.4	-0.2	34	0.01
	Assam	1994	0	36.4	30.4	0.2	155	0.00
	Manipur	195	1	2.5	2.6	-0.1	19	0.01
	Meghalaya	295	0	5.4	1.2	-0.2	36	0.00
	Mizoram	107	1	1.6	1.7	-0.1	19	0.01
	Nagaland	140	1	2.5	2.6	-0.1	22	0.01
	Tripura	292	0	5.0	4.1	-0.2	36	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	48.5	-8.6	-22.0
Day Peak (MW)	2086.0	-483.9	-937.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	406.6	-273.3	11.0	-137.4	-6.9	0.0
Actual(MU)	411.3	-272.7	2.2	-136.6	-10.1	-5.9
OD/UD(MU)	4.7	0.6	-8.8	0.8	-3.2	-5.9

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3960	13036	6732	810	588	25126	43
State Sector	7015	15907	6685	3745	11	33363	57
Total	10975	28943	13417	4555	600	58490	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	668	1280	581	510	12	3052	68
Lignite	29	11	37	0	0	77	2
Hydro	356	25	102	130	35	648	14
Nuclear	29	32	46	0	0	108	2
Gas, Naptha & Diesel	35	35	11	0	24	104	2
RES (Wind, Solar, Biomass & Others)	127	177	178	4	0	485	11
Total	1244	1561	954	643	71	4474	100

Share of RES in total generation (%)	10.18	11.32	18.60	0.61	0.27	10.84
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	41.20	15.01	34.12	20.77	49.20	27.74

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.035
Based on State Max Demands	1.087

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: 09-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	36.7	-36.7	
2	HVDC	PUSAULI-B/B	-	0	248	0.0	5.9	-5.9	
3	765 kV	GAYA-VARANASI	2	0	792	0.0	14.4	-14.4	
4	765 kV	SASARAM-FATEHPUR	1	68	268	0.0	2.1	-2.1	
5	765 kV	GAYA-BALIA	1	0	669	0.0	13.1	-13.1	
6	400 kV	PUSAULI-VARANASI	1	0	220	0.0	4.3	-4.3	
7	400 kV	PUSAULI-ALLAHABAD	1	0	99	0.0	1.5	-1.5	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	689	0.0	12.6	-12.6	
9	400 kV	PATNA-BALIA	4	0	1103	0.0	22.9	-22.9	
10	400 kV	BIHARSHARIFF-BALIA	2	0	506	0.0	8.3	-8.3	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	387	0.0	6.8	-6.8	
12	400 kV	BIHARSHARIFF-VARANASI	2	0	304	0.0	5.2	-5.2	
13	220 kV	PUSAULI-SAHUPURI	1	0	108	0.0	1.8	-1.8	
14	132 kV	SONENAGAR-RIHAND	2	0	0	0.0	0.0	0.0	
15	132 kV	GARWAH-RIHAND	1	20	0	0.4	0.0	0.4	
16	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0	
17	132 kV	KARMANASA-CHANDAUJI	1	0	0	0.0	0.0	0.0	
						ER-NR	0.4	135.5	-135.1
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	619	750	0.0	3.2	-3.2	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1412	0	21.3	0.0	21.3	
3	765 kV	JHARSUGUDA-DURG	2	149	104	0.9	0.0	0.9	
4	400 kV	JHARSUGUDA-RAIGARH	4	240	226	0.7	0.0	0.7	
5	400 kV	RANCHI-SIPAT	2	401	0	5.4	0.0	5.4	
6	220 kV	BUDHIPADAR-RAIGARH	1	7	102	0.0	1.2	-1.2	
7	220 kV	BUDHIPADAR-KORBA	2	188	0	3.3	0.0	3.3	
						ER-WR	31.7	4.5	27.2
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	349	0.0	7.7	-7.7	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1639	0.0	35.7	-35.7	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2062	0.0	28.4	-28.4	
4	400 kV	TALCHER-J/C	2	539	0	6.9	0.0	6.9	
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0	
						ER-SR	0.0	71.8	-71.8
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	0	511	0.0	4.1	-4.1	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	277	448	1.1	0.0	1.1	
3	220 kV	ALIPURDUAR-SALAKATI	2	5	139	0.0	1.1	-1.1	
						ER-NER	1.1	5.2	-4.1
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	854	0.0	15.3	-15.3	
						NER-NR	0.0	15.3	-15.3
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	5043	0.0	93.1	-93.1	
2	HVDC	VINDHYACHAL B/B	-	0	203	0.0	4.8	-4.8	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1916	0.0	45.4	-45.4	
4	765 kV	GWALIOR-AGRA	2	0	3044	0.0	55.7	-55.7	
5	765 kV	PHAGI-GWALIOR	2	0	1638	0.0	31.8	-31.8	
6	765 kV	JABALPUR-ORAI	2	0	1171	0.0	45.8	-45.8	
7	765 kV	GWALIOR-ORAI	1	733	0	12.7	0.0	12.7	
8	765 kV	SATNA-ORAI	1	0	1535	0.0	30.9	-30.9	
9	765 kV	CHITORGARH-BANASKANTHA	2	434	529	0.0	2.3	-2.3	
10	400 kV	ZERDA-KANKROLI	1	207	3	2.5	0.0	2.5	
11	400 kV	ZERDA-BHINMAL	1	502	0	7.9	0.0	7.9	
12	400 kV	VINDHYACHAL-RIHAND	1	974	0	22.2	0.0	22.2	
13	400 kV	RAPP-SHUALPUR	2	0	475	0.0	6.3	-6.3	
14	220 kV	BHANPURA-RANPUR	1	8	101	0.0	1.3	-1.3	
15	220 kV	BHANPURA-MORAK	1	0	30	0.1	0.7	-0.6	
16	220 kV	MEHGAON-AURAIYA	1	98	0	0.3	0.1	0.2	
17	220 kV	MALANPUR-AURAIYA	1	59	22	0.9	0.0	0.9	
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	46.5	318.2	-271.7
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	297	0	7.3	0.0	7.3	
2	HVDC	RAIGARH-PUGALUR	2	577	0	13.9	0.0	13.9	
3	765 kV	SOLAPUR-RAICHUR	2	1322	1595	2.9	0.0	2.9	
4	765 kV	WARDHA-NIZAMABAD	2	234	1784	0.2	19.1	-18.9	
5	400 kV	KOLHAPUR-KUDGI	2	1116	0	18.8	0.0	18.8	
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	1.3	0.0	1.3	
						WR-SR	44.4	19.1	25.3
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)	671	0	655	15.7			
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	1018	1011	1018	24.6			
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	320	283	288	6.9			
	NER	132kV GELEPHU-SALAKATI	-41	-21	30	0.7			
	NER	132kV MOTANGA-RANGIA	-35	-17	25	0.6			
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-82	0	-62	-1.5			
	ER	NEPAL IMPORT (FROM BIHAR)	-217	-69	-149	-3.6			
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-185	-60	-147	-3.5			
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-815	0	-806	-19.4			
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-122	0	-109	-2.6			