



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: 20th 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 19.07.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 19-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 19th 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: 20-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)	54044	49360	38013	23822	2981	168220
Peak Shortage (MW)	720	0	0	0	0	720
Energy Met (MU)	1263	1151	860	522	55	3851
Hydro Gen (MU)	343	24	105	125	33	630
Wind Gen (MU)	60	189	207	-	-	456
Solar Gen (MU)*	42.89	27.74	90.00	4.74	0.24	166
Energy Shortage (MU)	3.45	0.00	0.00	0.00	0.04	3.49
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	60056	49451	40923	25069	2984	170434
Time Of Maximum Demand Met (From NLDC SCADA)	00:00	09:24	11:59	19:51	19:58	19:51

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	0.037	0.00	0.16	4.12	4.28	63.49	32.23

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	12567	0	286.5	176.8	-1.8	152	0.00
	Haryana	8113	0	150.2	132.8	-7.7	262	0.00
	Rajasthan	10975	0	244.0	50.7	-2.1	254	0.00
	Delhi	5357	0	100.8	91.6	-1.6	147	0.00
	UP	19057	0	373.9	172.5	-1.8	350	0.00
	Uttarakhand	1679	0	36.4	15.2	0.4	319	0.00
	HP	1452	0	27.3	-5.7	-3.3	52	0.00
	J&K(UT) & Ladakh(UT)	2262	250	38.3	16.1	1.0	670	3.45
	Chandigarh	261	0	5.6	6.7	-1.1	0	0.00
	Chhattisgarh	4760	0	114.5	62.7	0.6	290	0.00
WR	Gujarat	15451	0	338.3	138.0	-3.1	604	0.00
	MP	9933	0	225.8	150.1	-0.6	652	0.00
	Maharashtra	19110	0	418.2	139.5	-3.3	680	0.00
	Goa	536	0	11.2	10.2	0.4	68	0.00
	DD	322	0	6.9	6.7	0.2	27	0.00
	DNH	824	0	19.0	19.0	0.0	39	0.00
	AMNSIL	850	0	16.9	3.1	0.4	324	0.00
SR	Andhra Pradesh	7683	0	161.7	38.4	0.1	717	0.00
	Telangana	9409	0	187.8	70.8	0.4	830	0.00
	Karnataka	7689	0	146.9	-24.3	-4.6	567	0.00
	Kerala	3310	0	65.8	30.2	-0.5	182	0.00
	Tamil Nadu	13726	0	289.8	117.4	-2.5	425	0.00
	Puducherry	399	0	8.0	8.4	-0.4	32	0.00
ER	Bihar	6598	0	125.4	116.2	-0.3	355	0.00
	DVC	3188	0	66.2	-34.5	-0.5	380	0.00
	Jharkhand	1718	0	29.8	25.9	-2.5	127	0.00
	Odisha	5941	0	119.4	48.8	1.4	363	0.00
	West Bengal	8913	0	179.8	66.8	1.9	453	0.00
	Sikkim	93	0	1.4	1.4	-0.1	17	0.00
NER	Arunachal Pradesh	147	0	2.3	2.7	-0.3	29	0.01
	Assam	1950	0	35.4	28.2	0.5	124	0.00
	Manipur	177	0	2.5	2.7	-0.1	15	0.01
	Meghalaya	309	0	5.9	1.9	-0.3	66	0.00
	Mizoram	98	0	1.6	1.4	0.0	38	0.01
	Nagaland	142	0	2.7	2.3	0.0	12	0.01
	Tripura	288	0	5.0	4.2	0.0	49	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	39.0	-2.7	-22.5
Day Peak (MW)	2055.0	-258.2	-961.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	265.4	-184.4	-40.9	-36.4	-3.7	0.0
Actual(MU)	225.9	-136.9	-44.0	-43.2	-5.0	-3.2
O/D/U/D(MU)	-39.5	47.4	-3.1	-6.7	-1.3	-3.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7302	14838	8982	1180	622	32923	42
State Sector	8890	21617	9535	4645	11	44698	58
Total	16192	36455	18517	5825	633	77622	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	529	990	398	443	10	2370	60
Lignite	18	11	34	0	0	63	2
Hvdro	343	24	105	125	33	630	16
Nuclear	30	33	41	0	0	104	3
Gas, Naptha & Diesel	20	29	10	0	22	81	2
RES (Wind, Solar, Biomass & Others)	122	217	328	5	0	672	17
Total	1063	1303	916	573	66	3921	100
Share of RES in total generation (%)	11.48	16.68	35.79	0.83	0.37	17.15	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	46.62	21.03	51.74	22.65	51.33	35.89	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.047
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: 20-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	1200	0.0	27.9	-27.9
2	HVDC	PUSAULI B/B	-	54	245	0.0	6.1	-6.1
3	765 kV	GAYA-VARANASI	2	344	281	0.0	3.7	-3.7
4	765 kV	SASARAM-FATEHPUR	1	0	0	6.1	0.0	6.1
5	765 kV	GAYABALLA	1	0	477	0.0	6.1	-6.1
6	400 kV	PUSAULI-VARANASI	1	0	243	0.0	5.2	-5.2
7	400 kV	PUSAULI-ALLAHABAD	1	0	58	0.0	0.6	-0.6
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	67	376	0.0	5.6	-5.6
9	400 kV	PATNA-BALLA	4	0	644	0.0	9.2	-9.2
10	400 kV	BIHARSHARIFF-BALLA	2	123	108	0.0	1.0	-1.0
11	400 kV	MOTIHARI-GORAKHPUR	2	39	208	0.0	2.9	-2.9
12	400 kV	BIHARSHARIFF-VARANASI	2	140	22	0.8	0.0	0.8
13	220 kV	PUSAULI-SAHUPURI	1	0	143	0.0	2.7	-2.7
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						7.6	71.0	-63.4
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	798	278	7.4	0.0	7.4
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	2130	0	40.1	0.0	40.1
3	765 kV	JHARSUGUDA-DURG	2	308	0	5.2	0.0	5.2
4	400 kV	JHARSUGUDA-RAIGARH	4	57	411	0.0	4.1	-4.1
5	400 kV	RANCHI-SIPAT	2	527	0	9.5	0.0	9.5
6	220 kV	BUDHIPADAR-RAIGARH	1	0	146	0.0	2.3	-2.3
7	220 kV	BUDHIPADAR-KORBA	2	128	4	1.6	0.0	1.6
ER-WR						63.8	6.4	57.3
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	297	0	6.1	0.0	6.1
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1342	0.0	28.6	-28.6
3	765 kV	ANGUL-SRIKAKULAM	2	0	2004	0.0	30.8	-30.8
4	400 kV	TALCHER-I/C	2	400	603	0.0	6.4	-6.4
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
ER-SR						6.1	59.3	-53.2
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	348	0.0	5.2	-5.2
2	400 kV	ALIPURDUAR-BONGAIGAON	2	49	411	0.0	3.4	-3.4
3	220 kV	ALIPURDUAR-SALAKATI	2	0	120	0.0	1.8	-1.8
ER-NER						0.0	10.4	-10.4
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	703	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	3531	0.0	38.1	-38.1
2	HVDC	VINDHYACHAL B/B	-	195	0	4.9	0.0	4.9
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1453	0.0	19.0	-19.0
4	765 kV	GWALIOR-AGRA	2	0	2893	0.0	47.5	-47.5
5	765 kV	GWALIOR-PHAGI	2	0	1240	0.0	19.4	-19.4
6	765 kV	JABALPUR-ORAI	2	0	1123	0.0	37.7	-37.7
7	765 kV	GWALIOR-ORAI	2	489	0	9.4	0.0	9.4
8	765 kV	SAINA-ORAI	1	0	1446	0.0	28.1	-28.1
9	765 kV	BANASKANTHA-CHITORGARH	2	83	677	0.0	6.5	-6.5
10	400 kV	ZERDA-KANKROLI	1	136	38	1.5	0.0	1.5
11	400 kV	ZERDA-BHINMAL	1	377	0	6.4	0.0	6.4
12	400 kV	VINDHYACHAL-RIHAND	1	963	0	22.2	0.0	22.2
13	400 kV	RAPP-SHUJALPUR	2	143	367	0.4	2.2	-1.8
14	220 kV	BHANPURA-RANPUR	1	25	66	0.0	0.6	-0.6
15	220 kV	BHANPURA-MORAK	1	0	30	0.4	0.2	0.3
16	220 kV	MEHGAON-AURAIYA	1	77	39	0.2	0.3	-0.1
17	220 kV	MALANPUR-AURAIYA	1	49	45	0.4	0.1	0.3
18	132 kV	GWALIOR-SAWAI MADHOPUR	1	0	0	0.0	0.0	0.0
19	132 kV	RAIGHAT-LALITPUR	2	0	0	0.0	0.0	0.0
WR-NR						45.7	199.7	-154.1
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	787	359	5.0	1.6	3.4
2	HVDC	RAIGARH-PUGALUR	2	2154	0	36.0	0.0	36.0
3	765 kV	SOLAPUR-RAICHUR	2	2155	454	21.8	0.4	21.4
4	765 kV	WARDHA-NIZAMABAD	2	457	1415	1.7	12.8	-11.1
5	400 kV	KOLHAPUR-KUDGI	2	1322	0	24.9	0.0	24.9
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	85	1.3	0.0	1.3
WR-SR						90.7	14.9	75.8
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)	651	0	582	14.0		
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	1023	0	726	17.4		
	ER	230kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	287	0	245	5.9		
	NER	132kV GELEPHU-SALAKATI	27	22	23	0.6		
	NER	132kV MOTANGA-RANGIA	67	37	49	1.2		
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-72	0	-48	-1.2		
	ER	NEPAL IMPORT (FROM BIHAR)	-79	0	-9	-0.2		
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-107	-2	-56	-1.3		
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-831	-822	-823	-19.7		
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-130	0	-113	-2.7		