



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: 19th 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 18.07.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 18-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 18th 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:

19-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)	58653	47940	33651	22902	2859	166005
Peak Shortage (MW)	200	0	0	0	2	202
Energy Met (MU)	1426	1143	806	504	54	3933
Hydro Gen (MU)	362	22	99	131	33	647
Wind Gen (MU)	41	141	156	-	-	338
Solar Gen (MU)*	47.58	22.89	57.38	4.65	0.16	133
Energy Shortage (MU)	15.95	0.50	0.00	0.00	0.05	16.50
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	69209	49026	37698	23647	2918	178918
Time Of Maximum Demand Met (From NLDC SCADA)	00:00	00:01	11:56	22:23	18:52	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	0.029	0.00	0.00	0.53	0.53	65.29	34.17

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	12831	0	299.4	183.0	-1.5	93	12.28
	Haryana	10353	0	209.3	174.0	0.0	266	0.00
	Rajasthan	11848	0	260.3	71.3	-2.7	864	0.00
	Delhi	6045	0	120.6	106.8	-0.9	219	0.00
	UP	23284	0	417.2	206.9	-2.7	435	0.00
	Uttarakhand	1833	0	37.7	10.6	-0.3	356	0.22
	HP	1365	0	28.3	-5.0	-3.1	0	0.00
	J&K(UT) & Ladakh(UT)	2333	250	46.4	21.5	-0.5	210	3.45
	Chandigarh	311	0	6.4	6.9	-0.5	0	0.00
	WR	Chhattisgarh	4775	26	113.0	56.6	-1.5	356
Gujarat		14411	0	328.9	138.3	0.2	923	0.00
MP		10596	0	231.8	152.4	-1.2	664	0.00
Maharashtra		18124	0	414.9	140.2	-3.4	652	0.00
Goa		490	0	10.3	9.1	0.6	87	0.00
DD		313	0	6.0	6.0	0.0	47	0.00
DNH		813	0	18.6	18.6	0.0	55	0.00
AMNSIL		862	0	19.6	6.0	0.2	369	0.00
SR	Andhra Pradesh	7332	0	157.8	35.8	-0.1	669	0.00
	Telangana	9796	0	188.4	75.3	-0.2	717	0.00
	Karnataka	7079	0	136.2	-9.7	-1.0	512	0.00
	Kerala	2790	0	58.2	24.7	-0.3	281	0.00
	Tamil Nadu	11360	0	258.0	108.0	-2.4	391	0.00
	Puducherry	345	0	7.3	7.6	-0.3	36	0.00
	DVC	2971	0	64.7	-41.6	0.5	229	0.00
ER	Bihar	6179	0	117.6	111.2	-1.6	405	0.00
	Jharkhand	1529	0	28.2	24.3	-3.4	128	0.00
	Odisha	5872	0	118.5	48.5	0.6	248	0.00
	West Bengal	8711	0	173.8	56.8	0.4	501	0.00
	Sikkim	70	0	1.1	1.2	-0.1	15	0.00
NER	Arunachal Pradesh	135	0	2.3	2.6	-0.4	11	0.01
	Assam	1861	0	34.9	27.3	0.8	124	0.00
	Manipur	200	0	2.6	2.7	-0.1	23	0.01
	Meghalaya	311	0	5.6	1.7	0.0	102	0.00
	Mizoram	103	0	1.6	1.5	-0.1	21	0.01
	Nagaland	132	0	2.5	2.3	-0.1	9	0.01
	Tripura	268	0	4.7	3.9	0.2	57	0.01

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	48.6	-3.8	-22.4
Day Peak (MW)	2067.0	-291.9	-969.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	339.2	-223.2	-43.1	-69.0	-3.9	0.0
Actual(MU)	317.3	-192.6	-44.4	-83.8	-5.2	-8.7
O/D/U/D(MU)	-21.9	30.6	-1.3	-14.8	-1.3	-8.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4692	13988	8982	1680	622	29963	43
State Sector	7460	19652	8415	4045	53	39625	57
Total	12152	33640	17397	5725	675	69588	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	585	1097	426	467	10	2585	64
Lignite	20	11	39	0	0	70	2
Hydro	362	22	99	131	33	647	16
Nuclear	30	32	42	0	0	104	3
Gas, Naptha & Diesel	30	27	9	0	22	88	2
RES (Wind, Solar, Biomass & Others)	109	164	245	5	0	522	13
Total	1137	1353	859	602	65	4016	100
Share of RES in total generation (%)	9.62	12.09	28.46	0.77	0.25	13.01	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	44.13	16.07	44.86	22.51	50.90	31.70	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.020
Based on State Max Demands	1.049

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: 19-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	1202	0.0	29.7	-29.7	
2	HVDC	PUSAULI B/B	-	0	245	0.0	6.1	-6.1	
3	765 kV	GAYA-VARANASI	2	0	434	0.0	6.8	-6.8	
4	765 kV	SASARAM-FATEHPUR	1	224	47	2.4	0.0	2.4	
5	765 kV	GAYABALLIA	1	0	494	0.0	3.3	-3.3	
6	400 kV	PUSAULI-VARANASI	1	0	231	0.0	4.8	-4.8	
7	400 kV	PUSAULI-ALLAHABAD	1	0	80	0.0	1.1	-1.1	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	460	0.0	8.1	-8.1	
9	400 kV	PATNA-BALLIA	4	0	813	0.0	15.2	-15.2	
10	400 kV	BIHARSHARIFF-BALLIA	2	0	267	0.0	4.3	-4.3	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	275	0.0	4.8	-4.8	
12	400 kV	BIHARSHARIFF-VARANASI	2	78	121	0.0	1.2	-1.2	
13	220 kV	PUSAULI-SAHUPURI	1	0	149	0.0	2.5	-2.5	
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	3.0	92.3	-89.9
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	700	470	0.7	0.0	0.7	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	2197	0	35.2	0.0	35.2	
3	765 kV	JHARSUGUDA-DURG	2	245	0	5.7	0.0	5.7	
4	400 kV	JHARSUGUDA-RAIGARH	4	89	280	0.0	4.6	-4.6	
5	400 kV	RANCHI-SIPAT	2	569	0	8.0	0.0	8.0	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	159	0.0	2.9	-2.9	
7	220 kV	BUDHIPADAR-KORBA	2	136	0	1.2	0.0	1.2	
						ER-WR	50.7	7.5	43.2
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	197	0	3.5	0.0	3.5	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1640	0.0	31.9	-31.9	
3	765 kV	ANGUL-SRIKAKULAM	2	0	1867	0.0	26.3	-26.3	
4	400 kV	TALCHER-I/C	2	369	893	0.0	8.6	-8.6	
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0	
						ER-SR	3.5	58.2	-54.7
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	0	385	0.0	5.1	-5.1	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	41	418	0.0	3.2	-3.2	
3	220 kV	ALIPURDUAR-SALAKATI	2	0	135	0.0	1.9	-1.9	
						ER-NER	0.0	10.1	-10.1
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	703	0.0	17.1	-17.1	
						NER-NR	0.0	17.1	-17.1
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	4531	0.0	57.1	-57.1	
2	HVDC	VINDHYACHAL B/B	-	195	254	3.3	1.8	1.5	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1914	0.0	42.4	-42.4	
4	765 kV	GWALIOR-AGRA	2	0	3080	0.0	53.2	-53.2	
5	765 kV	GWALIOR-PHAGI	2	0	1600	0.0	27.8	-27.8	
6	765 kV	JABALPUR-ORAI	2	0	1245	0.0	44.3	-44.3	
7	765 kV	GWALIOR-ORAI	1	645	0	10.8	0.0	10.8	
8	765 kV	SAINA-ORAI	1	0	1550	0.0	31.1	-31.1	
9	765 kV	BANASKANTHA-CHITORGARH	2	314	494	0.0	2.0	-2.0	
10	400 kV	ZERDA-KANKROLI	1	197	52	1.9	0.0	1.9	
11	400 kV	ZERDA-BHINMAL	1	484	99	5.0	0.0	5.0	
12	400 kV	VINDHYACHAL-RIHAND	1	965	0	22.1	0.0	22.1	
13	400 kV	RAPP-SHUJALPUR	2	50	471	0.0	4.5	-4.5	
14	220 kV	BHANPURA-RANPUR	1	21	68	0.0	0.6	-0.6	
15	220 kV	BHANPURA-MORAK	1	0	30	0.4	0.1	0.3	
16	220 kV	MEHGAON-AURAIYA	1	78	27	0.1	0.4	-0.3	
17	220 kV	MALANPUR-AURAIYA	1	42	48	0.5	0.0	0.5	
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	44.2	265.4	-221.3
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	300	0	7.3	0.0	7.3	
2	HVDC	RAIGARH-PUGALUR	2	974	0	23.3	0.0	23.3	
3	765 kV	SOLAPUR-RAICHUR	2	2163	0	27.7	0.0	27.7	
4	765 kV	WARDHA-NIZAMABAD	2	580	1433	1.8	11.9	-10.2	
5	400 kV	KOLHAPUR-KUDGI	2	1256	0	22.6	0.0	22.6	
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	75	1.4	0.0	1.4	
						WR-SR	84.1	11.9	72.2
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)	655	0	651	15.6			
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	1023	1023	1023	24.8			
	ER	230kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	299	0	270	6.5			
	NER	132kV GELEPHU-SALAKATI	28	20	23	0.5			
	NER	132kV MOTANGA-RANGIA	62	33	48	1.2			
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-74	0	-46	-1.1			
	ER	NEPAL IMPORT (FROM BIHAR)	-53	-1	-10	-0.2			
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-165	-18	-104	-2.5			
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-825	-816	-819	-19.7			
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-144	0	-116	-2.8			