



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 2022

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 19.07.2022.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 19-जुलाई-2022 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 19th July 2022, 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: 21-Jul-2022

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)	57934	49666	41734	26237	3232	178803
Peak Shortage (MW)	75	0	0	459	0	534
Energy Met (MU)	1454	1138	1002	573	62	4229
Hydro Gen (MU)	319	86	126	121	32	683
Wind Gen (MU)	64	151	90	-	-	305
Solar Gen (MU)*	109.78	36.34	107.31	4.21	0.56	258
Energy Shortage (MU)	10.22	0.00	0.00	7.09	0.00	17.31
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	69750	49680	47435	27095	3264	185657
Time Of Maximum Demand Met (From NLDC SCADA)	00:14	19:44	09:58	20:15	19:22	10:30

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	0.076	0.72	2.63	6.91	10.25	63.16	26.58

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	11775	0	267.0	167.4	-1.9	225	0.00
	Haryana	10152	0	212.9	148.2	-0.8	431	1.76
	Rajasthan	11452	0	245.7	24.9	-4.2	164	0.00
	Delhi	6571	0	129.6	119.7	-2.3	201	0.00
	UP	25103	540	465.4	214.6	-0.7	534	7.28
	Uttarakhand	1993	75	45.5	25.2	0.2	178	1.08
	HP	1669	0	32.0	-4.0	-0.2	221	0.10
	J&K(UT) & Ladakh(UT)	2081	0	48.6	26.3	-2.7	265	0.00
	Chandigarh	323	0	6.9	7.3	-0.4	24	0.00
	WR	Chhattisgarh	4209	0	98.4	45.7	0.0	297
Gujarat		14163	0	320.2	145.2	-8.9	618	0.00
MP		10011	0	219.9	78.0	0.0	454	0.00
Maharashtra		20082	0	443.5	161.2	-3.5	632	0.00
Goa		595	0	11.9	12.1	-0.2	71	0.00
DNHDDPDCL		1129	0	26.3	26.3	0.0	50	0.00
AMNSIL		807	0	17.5	11.3	-0.3	250	0.00
SR	Andhra Pradesh	8883	0	199.0	87.0	2.1	859	0.00
	Telangana	10637	0	196.4	77.3	1.3	751	0.00
	Karnataka	9354	0	179.0	55.4	-0.5	650	0.00
	Kerala	3399	0	70.6	38.7	-0.3	188	0.00
	Tamil Nadu	15689	0	347.4	173.3	0.3	699	0.00
	Puducherry	446	0	9.9	9.2	0.0	58	0.00
ER	Bihar	6497	298	131.6	120.7	-0.2	337	3.46
	DVC	3478	0	78.2	-40.2	0.3	262	0.00
	Jharkhand	1786	0	32.3	25.1	-1.7	282	3.63
	Odisha	6083	0	130.1	61.5	0.2	259	0.00
	West Bengal	9605	0	199.2	73.8	0.9	340	0.00
NER	Sikkim	96	0	1.6	1.5	0.1	21	0.00
	Arunachal Pradesh	145	0	2.6	2.9	-0.6	26	0.00
	Assam	2095	0	40.7	34.8	-1.0	113	0.00
	Manipur	191	0	2.8	2.9	-0.1	19	0.00
	Meghalaya	339	0	6.1	1.1	0.0	74	0.00
	Mizoram	101	0	1.6	0.9	0.3	28	0.00
	Nagaland	152	0	2.8	2.4	-0.1	17	0.00
	Tripura	310	0	5.5	5.7	0.0	87	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	32.0	6.3	-24.4
Day Peak (MW)	1767.0	323.0	-1059.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	244.2	-203.1	45.3	-79.9	-6.5	0.0
Actual(MU)	217.1	-216.4	68.6	-69.5	-7.3	-7.6
O/D/U/D(MU)	-27.1	-13.3	23.2	10.3	-0.8	-7.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3496	17346	6138	3150	309	30439	44
State Sector	6685	18359	10927	2590	186	38746	56
Total	10181	35704	17065	5740	494	69184	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	747	1043	459	548	15	2810	64
Lignite	23	9	64	0	0	96	2
Hydro	319	86	126	121	32	683	16
Nuclear	29	36	67	0	0	132	3
Gas, Naptha & Diesel	16	3	9	0	29	57	1
RES (Wind, Solar, Biomass & Others)	191	188	246	4	1	630	14
Total	1325	1364	971	673	76	4409	100

Share of RES in total generation (%)	14.14	13.80	25.34	0.63	0.74	14.21
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	40.63	22.72	45.22	18.59	42.50	32.77

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.062
Based on State Max Demands	1.085

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)

Sl No	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Date of Reporting:		NET (MU)	
						Import (MU)	Export (MU)		
Date of Reporting: 21-Jul-2022									
Import/Export of ER (With NR)									
1	HVDC	ALIPURDUAR-AGRA	2	0	501	0.0	12.4	-12.4	
2	HVDC	PUSAULI B/B	-	0	49	0.0	1.3	-1.3	
3	765 kV	GAYA-VARANASI	2	987	324	4.7	0.0	4.7	
4	765 kV	SASARAM-FATEHPUR	1	345	244	0.0	0.1	-0.1	
5	765 kV	GAYA-BALIA	1	0	715	0.0	9.1	-9.1	
6	400 kV	PUSAULI-VARANASI	1	15	90	0.0	0.8	-0.8	
7	400 kV	PUSAULI-ALLAHABAD	1	31	74	0.0	0.3	-0.3	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	857	0.0	12.3	-12.3	
9	400 kV	PATNA-BALIA	2	0	652	0.0	11.3	-11.3	
10	400 kV	NAUBATPUR-BALIA	2	0	697	0.0	9.6	-9.6	
11	400 kV	BIHARSHARIFF-BALIA	2	100	444	0.0	5.3	-5.3	
12	400 kV	MOTIHARI-GORAKHPUR	2	11	461	0.0	6.3	-6.3	
13	400 kV	BIHARSHARIFF-VARANASI	2	332	175	0.3	0.0	0.3	
14	220 kV	SINPUR-BIKRAMNASHA	1	4	152	0.0	1.8	-1.8	
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0	
16	132 kV	GARWAH-RIHAND	1	25	0	0.3	0.0	0.3	
17	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0	
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0	
						ER-NR	5.4	70.5	-65.2
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	629	0	28.5	0.0	28.5	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1266	228	17.9	0.0	17.9	
3	765 kV	JHARSUGUDA-DURG	2	0	314	0.0	0.7	-0.7	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	312	1.9	0.0	1.9	
5	400 kV	RANCHI-SIPAT	2	318	93	4.4	0.0	4.4	
6	220 kV	BUDHIPADAR-RAIGARH	1	68	69	0.0	0.3	-0.3	
7	220 kV	BUDHIPADAR-KORBA	2	187	0	2.1	0.0	2.1	
						ER-WR	54.8	1.0	53.9
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	587	0	14.5	0.0	14.5	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1993	0.0	45.8	-45.8	
3	765 kV	ANGUL-SRIKAKULAM	2	0	3355	0.0	57.4	-57.4	
4	400 kV	TALCHER-I/C	2	251	919	0.0	6.9	-6.9	
5	220 kV	BALMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0	
						ER-SR	14.5	103.2	-88.8
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	0	256	0.0	3.1	-3.1	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	10	365	0.0	4.0	-4.0	
3	220 kV	ALIPURDUAR-SALAKATI	2	0	107	0.0	1.5	-1.5	
						ER-NER	0.0	8.6	-8.6
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	705	0.0	16.8	-16.8	
						NER-NR	0.0	16.8	-16.8
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	3022	0.0	44.6	-44.6	
2	HVDC	VINDHYACHAL B/B	-	444	0	8.9	0.0	8.9	
3	HVDC	MUNDRA-MOHENDERGARH	2	0	2021	0.0	24.1	-24.1	
4	765 kV	GWALIOR-AGRA	2	0	2124	0.0	24.9	-24.9	
5	765 kV	GWALIOR-PHAGI	2	1409	1142	8.1	11.5	-3.5	
6	765 kV	JABALPUR-ORAI	2	130	991	0.0	19.7	-19.7	
7	765 kV	GWALIOR-ORAI	1	651	99	7.6	0.1	7.4	
8	765 kV	SATNA-ORAI	1	0	1045	0.0	17.3	-17.3	
9	765 kV	BANASKANTHA-CHITORGARH	2	903	103	6.0	0.1	5.9	
10	765 kV	VINDHYACHAL-VARANASI	2	0	3383	0.0	62.3	-62.3	
11	400 kV	ZERDA-KANKROLI	1	283	0	3.2	0.0	3.2	
12	400 kV	ZERDA-JBHINMAL	1	730	0	9.4	0.0	9.4	
13	400 kV	VINDHYACHAL-RIHAND	1	961	0	21.3	0.0	21.3	
14	400 kV	RAPP-SHULIAPUR	2	627	516	4.9	3.5	1.5	
15	220 kV	BHANUPUR-RANPUR	1	0	0	0.0	0.0	0.0	
16	220 kV	BHANUPUR-MORAK	1	0	30	0.0	2.6	-2.6	
17	220 kV	MEHGAON-AURAIYA	1	114	0	0.7	0.0	0.7	
18	220 kV	MALANPUR-AURAIYA	1	71	6	1.4	0.0	1.4	
19	132 kV	GWALIOR-SAWAIMADHOPUR	1	0	0	0.0	0.0	0.0	
20	132 kV	RAJGHAT-LALITPUR	2	0	0	12.1	0.0	12.1	
						WR-NR	83.4	210.7	-127.3
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	984	0	12.1	0.0	12.1	
2	HVDC	RAIGARH-PUGALUR	2	2398	603	13.8	0.0	13.8	
3	765 kV	SOLAPUR-RAICHUR	2	158	2590	0.0	22.9	-22.9	
4	765 kV	WARDHA-NIZAMABAD	2	0	3846	0.0	52.6	-52.6	
5	400 kV	KOLHAPUR-KUDCI	2	1366	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	104	1.8	0.0	1.8	
						WR-SR	52.6	75.5	-22.9
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)	581	472	487	11.7			
	ER	400KV TALA-BINAGURI 1,2,3 (& 400KV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	947	613	723	17.4			
	ER	220KV CHUKHA-BIRPARA 1&2 (& 220KV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	300	159	170	4.1			
	NER	132KV GELEPHU-SALAKATI	19	-5	10	0.3			
	NER	132KV MOTANGA-RANGIA	50	0	36	0.9			
NEPAL	NR	132KV MAHENDRANAGAR-TANAKPUR(NHPC)	-62	0	-39	-0.9			
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.0			
BANGLADESH	ER	400KV DHALKEBAR-MUZAFFARPUR 1&2	385	167	301	7.2			
	NER	BHERAMARA B/B HVDC (BANGLADESH)	-930	-785	-902	-21.6			
	NER	132KV COMILLA-SURAJMANI 1&2	-129	0	-117	-2.8			