



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: 18th 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 17.07.2022.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 17-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 17th 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: 18-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)	59423	47979	36210	25158	3168	171938
Peak Shortage (MW)	70	0	0	1013	0	1083
Energy Met (MU)	1336	1096	882	555	61	3930
Hydro Gen (MU)	363	51	141	111	28	694
Wind Gen (MU)	9	148	177	-	-	334
Solar Gen (MU)*	83.36	39.69	77.07	4.41	0.59	205
Energy Shortage (MU)	3.25	0.00	0.00	13.27	0.00	16.52
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	66173	48110	41598	26029	3176	175023
Time Of Maximum Demand Met (From NLDC SCADA)	22:31	19:45	09:59	23:37	19:58	21:47

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	0.059	0.56	2.46	6.97	9.99	70.42	19.59

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	10408	0	208.5	146.4	-7.7	120	0.00
	Haryana	8810	0	173.5	118.9	-2.7	123	0.00
	Rajasthan	9973	0	219.1	62.8	-0.1	820	1.06
	Delhi	6046	0	113.9	103.2	-1.4	143	0.00
	UP	24911	0	488.1	220.1	-0.7	489	1.22
	Uttarakhand	2104	0	47.0	24.8	0.0	159	0.77
	HP	1382	0	29.6	-10.2	-0.3	73	0.00
	J&K(UT) & Ladakh(UT)	2092	200	50.6	29.4	-4.4	142	0.20
	Chandigarh	301	0	5.5	6.2	-0.7	24	0.00
	Chhattisgarh	3869	0	90.4	40.4	-0.8	279	0.00
WR	Gujarat	13670	0	312.9	142.4	-2.4	879	0.00
	MP	9497	0	216.8	110.1	0.0	378	0.00
	Maharashtra	19140	0	420.5	136.0	-2.7	675	0.00
	Goa	540	0	11.0	10.9	0.1	44	0.00
	DNHDDPDCL	1053	0	24.6	24.5	0.1	69	0.00
AMNSIL	868	0	19.5	11.1	-0.3	0	0.00	
SR	Andhra Pradesh	8812	0	183.6	52.3	1.6	1051	0.00
	Telangana	9529	0	170.0	90.1	1.3	585	0.00
	Karnataka	7642	0	148.9	23.8	-0.1	517	0.00
	Kerala	3052	0	62.8	27.8	-0.1	261	0.00
	Tamil Nadu	13321	0	308.0	125.2	-1.0	825	0.00
	Puducherry	388	0	9.0	8.5	-0.3	69	0.00
ER	Bihar	6692	873	138.6	125.7	1.7	525	10.17
	DVC	3521	0	76.2	-31.5	0.4	277	0.00
	Jharkhand	1538	0	31.4	25.6	-0.9	295	3.10
	Odisha	6007	0	125.8	63.4	-1.5	293	0.00
	West Bengal	9128	0	181.7	67.1	0.2	338	0.00
Sikkim	69	0	1.1	1.1	0.0	20	0.00	
NER	Arunachal Pradesh	144	0	2.6	2.5	-0.2	42	0.00
	Assam	2088	0	39.1	33.2	-0.3	120	0.00
	Manipur	196	0	2.8	2.7	0.1	19	0.00
	Meghalaya	318	0	6.0	0.3	0.0	52	0.00
	Mizoram	87	0	1.7	0.8	-0.1	53	0.00
	Nagaland	148	0	2.9	2.6	-0.1	11	0.00
	Tripura	303	0	5.7	6.1	0.4	67	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	28.2	5.6	-23.4
Day Peak (MW)	1521.0	266.3	-1017.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	230.0	-180.2	-11.9	-33.3	-4.6	0.0
Actual(MU)	192.5	-176.6	3.0	-18.0	-4.4	-3.6
O/D/U/D(MU)	-37.5	3.5	14.8	15.3	0.2	-3.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3675	15496	7638	2935	309	30052	40
State Sector	9195	18539	14378	2200	251	44563	60
Total	12870	34034	22016	5135	560	74614	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	682	1032	356	499	14	2583	63
Lignite	26	8	55	0	0	88	2
Hydro	366	51	141	111	28	697	17
Nuclear	29	21	58	0	0	107	3
Gas, Naptha & Diesel	16	3	9	0	28	55	1
RES (Wind, Solar, Biomass & Others)	112	188	292	4	1	597	14
Total	1230	1302	911	614	70	4127	100

Share of RES in total generation (%)	9.08	14.43	32.09	0.72	0.84	14.47
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	41.15	19.93	53.95	18.82	40.45	33.95

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.057
Based on State Max Demands	1.072

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: 18-Jul-2022									
Import/Export of ER (With NR)									
1	HVDC	ALIPURDUAR-AGRA	2	0	501	0.0	12.1	-12.1	
2	HVDC	PUSAULI B/B	2	0	49	0.0	1.1	-1.1	
3	765 kV	GAYALYANASANI	2	1000	629	11.4	0.0	11.4	
4	765 kV	SASARAM-FATEHPUR	1	285	181	1.0	0.0	1.0	
5	765 kV	GAYA-BALIA	1	0	698	0.0	8.7	-8.7	
6	400 kV	PUSAULI-VARANASI	1	9	87	0.0	1.0	-1.0	
7	400 kV	PUSAULI-ALLAHABAD	1	27	67	0.0	0.1	-0.1	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	751	0.0	9.6	-9.6	
9	400 kV	PATNA-BALIA	2	0	587	0.0	8.1	-8.1	
10	400 kV	NAUBATPUR-BALIA	2	0	622	0.0	8.2	-8.2	
11	400 kV	BIHARSHARIFF-BALIA	2	90	390	0.0	3.5	-3.5	
12	400 kV	MOTIHARI-GORAKHPUR	2	33	430	0.0	5.1	-5.1	
13	400 kV	BIHARSHARIFF-VARANASI	2	363	143	2.8	0.0	2.8	
14	220 kV	SINPUR-BIKRAMNASI	1	3	165	0.0	2.1	-2.1	
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.1	0.0	0.1	
16	132 kV	GARWAH-RIHAND	1	25	0	0.4	0.0	0.4	
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	15.7	59.6	-43.9
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	629	0	39.1	0.0	39.1	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1357	94	21.2	0.0	21.2	
3	765 kV	JHARSUGUDA-DURG	2	0	314	0.4	0.0	0.4	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	312	2.8	0.0	2.8	
5	400 kV	RANCHI-SIPAT	2	349	53	5.3	0.0	5.3	
6	220 kV	BUDHIPADAR-RAIGARH	1	43	78	0.0	0.5	-0.5	
7	220 kV	BUDHIPADAR-KORBA	2	211	0	3.2	0.0	3.2	
						ER-WR	71.8	0.5	71.3
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	584	0	14.4	0.0	14.4	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	2000	0.0	38.2	-38.2	
3	765 kV	ANGUL-SRIKAKULAM	2	0	3132	0.0	52.2	-52.2	
4	400 kV	TALCHER-I/C	2	414	485	3.9	0.0	3.9	
5	220 kV	BALMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0	
						ER-SR	14.4	90.4	-76.0
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	4	345	0.0	4.8	-4.8	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	69	457	0.0	5.4	-5.4	
3	220 kV	ALIPURDUAR-SALAKATI	2	0	109	0.0	1.5	-1.5	
						ER-NER	0.0	11.8	-11.8
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	704	0.0	17.1	-17.1	
						NER-NR	0.0	17.1	-17.1
Import/Export of WR (With NR)									
1	HVDC	CHAMPAKURUKSHETRA	2	0	2506	0.0	46.7	-46.7	
2	HVDC	VINDHYACHAL B/B	2	444	0	12.2	0.0	12.2	
3	HVDC	MUNDRA-MOHENDERGARH	2	0	1014	0.0	24.2	-24.2	
4	765 kV	GWALIOR-AGRA	2	687	1946	1.5	20.3	-18.8	
5	765 kV	GWALIOR-PHAGI	2	835	1370	3.7	11.4	-7.6	
6	765 kV	JABALPUR-ORAI	2	228	866	0.0	15.9	-15.9	
7	765 kV	GWALIOR-ORAI	1	761	0	10.1	0.0	10.1	
8	765 kV	SATNA-ORAI	1	0	895	0.0	16.2	-16.2	
9	765 kV	BANASKANTHA-CHITORGARH	2	1089	0	11.5	0.0	11.5	
10	765 kV	VINDHYACHAL-VARANASI	2	0	3441	0.0	69.5	-69.5	
11	400 kV	ZERDA-KANKROLI	1	273	0	3.2	0.0	3.2	
12	400 kV	ZERDA-JBHINMAL	1	538	0	6.0	0.0	6.0	
13	400 kV	VINDHYACHAL-RIHAND	1	967	0	20.9	0.0	20.9	
14	400 kV	RAPP-SHULIAPUR	2	578	476	4.1	2.1	1.9	
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0	
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.7	-2.7	
17	220 kV	MEHGAON-AURAIYA	1	130	0	0.8	0.0	0.8	
18	220 kV	MALANPUR-AURAIYA	1	90	0	1.5	0.0	1.5	
19	132 kV	GWALIOR-SAWAIMADHOPUR	1	0	0	0.0	0.0	0.0	
20	132 kV	RAJGHAT-LALITPUR	2	0	0	0.0	0.0	0.0	
						WR-NR	75.4	208.9	-133.6
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	984	0	18.1	0.0	18.1	
2	HVDC	RAIGARH-PUGALUR	2	2871	602	41.7	0.0	41.7	
3	765 kV	SOLAPUR-RAICHUR	2	277	2084	0.5	11.9	-11.4	
4	765 kV	WARDHA-NIZAMABAD	2	0	3520	0.0	49.5	-49.5	
5	400 kV	WARDHA-KUDCI	2	1489	0	27.4	0.0	27.4	
6	220 kV	KOLHAPUR-CHIKODI	1	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	105	1.9	0.0	1.9	
						WR-SR	89.5	61.4	28.1
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)	409	0	377	9.1			
	ER	400KV TALA-BINAGURI 1,2,3 (& 400KV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	945	568	680	16.3			
	ER	220KV CHUKHA-BIRPARA 1&2 (& 220KV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	177	0	156	3.8			
	NER	132KV GELEPHU-SALAKATI	-13	-4	-7	-0.2			
	NER	132KV MOTANGA-RANGIA	-47	0	-29	-0.7			
NEPAL	NR	132KV MAHENDRANAGAR-TANAKPUR(NHPC)	-75	0	-47	-1.1			
	ER	NEPAL IMPORT (FROM BIHAR)	-25	0	-3	-0.1			
BANGLADESH	ER	400KV DHALKEBAR-MUZAFFARPUR 1&2	366	166	285	6.8			
	NER	BHERAMARA B/B HVDC (BANGLADESH)	-937	-876	-903	-21.7			
		132KV COMILLA-SURAJMANNAGAR 1&2	-80	0	-71	-1.7			