



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 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 08.07.2022.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा 5.5.1 के प्रावधान के अनुसार, दिनांक 08-जुलाई-2022 की अखिल भारतीय परणाली की

दैनिक ग्रिड निष्पादन रिपोर्ट रा.भा.प्रे.के. 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 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: 09-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)	70390	50229	40132	24606	3157	188514
Peak Shortage (MW)	555	0	0	1328	33	1916
Energy Met (MU)	1670	1173	914	556	62	4376
Hydro Gen (MU)	350	25	87	109	30	601
Wind Gen (MU)	4	151	261	-	-	417
Solar Gen (MU)*	104.39	28.64	59.80	4.68	0.44	198
Energy Shortage (MU)	14.25	0.00	0.00	11.63	0.63	26.51
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	75233	50841	42678	25634	3184	189763
Time Of Maximum Demand Met (From NLDC SCADA)	23:08	09:53	07:38	23:52	19:21	11:59

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	0.036	0.49	0.58	1.65	2.72	72.99	24.29

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	13879	0	316.0	184.7	-0.5	101	0.00
	Haryana	12124	0	261.2	173.8	2.1	306	0.00
	Rajasthan	11910	0	258.2	92.9	1.3	482	0.87
	Delhi	7411	0	149.3	135.9	-1.0	200	0.00
	UP	25857	300	541.8	278.5	3.5	1055	10.11
	Uttarakhand	2233	15	49.3	28.9	1.4	184	3.05
	HP	1610	0	34.3	-2.8	-0.8	143	0.00
	J&K(UT) & Ladakh(UT)	2132	0	52.8	28.4	-0.9	280	0.22
	Chandigarh	387	0	7.6	7.4	0.2	44	0.00
	Chhattisgarh	4407	0	106.0	48.9	-0.2	241	0.00
WR	Gujarat	14583	0	333.9	151.9	-7.9	640	0.00
	MP	9846	0	219.2	100.6	0.0	407	0.00
	Maharashtra	21044	0	457.1	148.4	-1.3	845	0.00
	Goa	563	0	12.0	11.9	0.1	38	0.00
	DNHDDPDCL	1160	0	26.5	27.0	-0.5	54	0.00
SR	AMNSIL	878	0	18.6	12.2	0.1	253	0.00
	Andhra Pradesh	7758	0	172.3	9.1	-1.0	579	0.00
	Telangana	8367	0	158.3	85.5	0.5	621	0.00
	Karnataka	8952	0	168.8	43.7	-1.0	579	0.00
	Kerala	3150	0	66.1	40.0	0.4	198	0.00
	Tamil Nadu	15441	0	338.9	115.9	-7.2	686	0.00
	Puducherry	430	0	9.6	9.6	-0.5	56	0.00
ER	Bihar	6306	0	133.6	125.4	2.2	389	8.87
	DVC	3575	0	78.2	-48.8	0.0	398	0.00
	Jharkhand	1721	0	32.9	25.4	-0.5	386	2.76
	Odisha	5289	0	112.7	48.1	-0.6	432	0.00
	West Bengal	9630	0	197.3	74.5	-0.3	479	0.00
NER	Sikkim	97	0	1.5	1.4	0.1	36	0.00
	Arunachal Pradesh	136	0	2.5	2.4	-0.2	12	0.00
	Assam	2104	0	41.1	34.7	-0.5	87	0.00
	Manipur	188	0	2.7	2.8	-0.1	9	0.00
	Meghalaya	272	40	5.6	0.3	-0.1	35	0.63
	Mizoram	88	0	1.8	1.3	-0.1	3	0.00
	Nagaland	148	0	2.7	2.3	-0.1	21	0.00
	Tripura	299	0	5.7	6.1	0.3	53	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	27.0	5.2	-15.3
Day Peak (MW)	1335.0	371.3	-657.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	377.0	-229.5	-20.0	-124.2	-3.3	0.0
Actual(MU)	420.6	-230.1	-65.4	-123.3	-7.2	-5.5
O/D/U/D(MU)	43.6	-0.6	-45.4	1.0	-3.9	-5.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3035	13176	7808	2305	459	26782	40
State Sector	7815	17294	12060	2020	212	39400	60
Total	10850	30469	19868	4325	671	66182	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	763	1176	431	595	17	2982	66
Lignite	28	10	60	0	0	98	2
Hydro	353	25	87	109	30	604	13
Nuclear	29	33	68	0	0	130	3
Gas, Naptha & Diesel	21	3	9	0	28	61	1
RES (Wind, Solar, Biomass & Others)	128	180	354	5	0	667	15
Total	1322	1427	1009	709	76	4543	100

Share of RES in total generation (%)	9.65	12.64	35.11	0.67	0.58	14.69
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	38.57	16.68	50.49	16.01	40.16	30.85

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.041
Based on State Max Demands	1.075

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-2022

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	1501	0.0	21.9	-21.9	
2	HVDC	PUSAULI B/B	2	0	49	0.0	1.3	-1.3	
3	765 kV	GAYALYARANASI	2	136	478	0.0	2.4	-2.4	
4	765 kV	SASARAM-FATEHPUR	1	0	448	0.0	7.1	-7.1	
5	765 kV	GAYA-BALIA	1	0	870	0.0	16.0	-16.0	
6	400 kV	PUSAULI-VARANASI	1	55	10	0.7	0.0	0.7	
7	400 kV	PUSAULI-ALLAHABAD	1	0	113	0.0	1.8	-1.8	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	1134	0.0	17.1	-17.1	
9	400 kV	PATNA-BALIA	2	0	769	0.0	14.7	-14.7	
10	400 kV	NAUBATPUR-BALIA	2	0	827	0.0	15.7	-15.7	
11	400 kV	BIHARSHARIFF-BALIA	2	0	602	0.0	8.2	-8.2	
12	400 kV	MOTIHARI-GORAKHPUR	2	0	576	0.0	9.7	-9.7	
13	400 kV	BIHARSHARIFF-VARANASI	2	0	368	0.0	4.4	-4.4	
14	220 kV	SINPUR-BIKRAMNASHA	1	0	191	0.0	3.0	-3.0	
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	1.1	123.3	-122.2
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	629	0	7.2	0.0	7.2	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1552	0	26.3	0.0	26.3	
3	765 kV	JHARSUGUDA-DURG	2	0	314	0.0	3.0	-3.0	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	312	0.0	5.8	-5.8	
5	400 kV	RANCHI-SIPAT	2	282	9	3.7	0.0	3.7	
6	220 kV	BUDHIPADAR-RAIGARH	1	1	134	0.0	1.4	-1.4	
7	220 kV	BUDHIPADAR-KORBA	2	89	58	0.8	0.0	0.8	
						ER-WR	38.1	10.1	27.9
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	587	0	14.2	0.0	14.2	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	2478	0.0	35.4	-35.4	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2615	0.0	45.1	-45.1	
4	400 kV	TALCHER-I/C	2	710	632	9.5	0.0	9.5	
5	220 kV	BALMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0	
						ER-SR	14.2	80.4	-66.2
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	4	526	0.0	4.6	-4.6	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	164	399	0.0	2.3	-2.3	
3	220 kV	ALIPURDUAR-SALAKATI	2	3	112	0.0	1.1	-1.1	
						ER-NER	0.0	8.1	-8.1
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	1006	0.0	16.3	-16.3	
						NER-NR	0.0	16.3	-16.3
Import/Export of WR (With NR)									
1	HVDC	GHAMPA-KURUKSHETRA	2	0	2271	0.0	71.1	-71.1	
2	HVDC	VINDHYACHAL B/B	2	444	53	11.4	0.0	11.4	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	2021	0.0	23.2	-23.2	
4	765 kV	GWALIOR-AGRA	2	0	2627	0.0	46.4	-46.4	
5	765 kV	GWALIOR-PHAGI	2	0	1846	0.0	28.8	-28.8	
6	765 kV	JABALPUR-ORAI	2	0	1286	0.0	44.2	-44.2	
7	765 kV	GWALIOR-ORAI	1	555	0	9.6	0.0	9.6	
8	765 kV	SATNA-ORAI	1	0	1209	0.0	25.3	-25.3	
9	765 kV	BANASKANTHA-CHITORGARH	2	669	946	4.0	4.9	-0.9	
10	765 kV	VINDHYACHAL-VARANASI	2	0	3974	0.0	78.9	-78.9	
11	400 kV	ZERDA-KANKROLI	1	164	202	0.0	0.3	-0.3	
12	400 kV	ZERDA-JBHINMAL	1	382	310	1.4	0.0	1.4	
13	400 kV	VINDHYACHAL-RIHAND	1	950	0	21.6	0.0	21.6	
14	400 kV	RAPP-SHULIAPUR	2	43	831	0.0	9.2	-9.2	
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	63	5	0.1	0.3	-0.2	
18	220 kV	MALANPUR-AURAIYA	1	28	30	0.6	0.0	0.6	
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	48.7	335.4	-286.7
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	984	0	24.0	0.0	24.0	
2	HVDC	RAIGARH-PUGALUR	2	2874	0	61.8	0.0	61.8	
3	765 kV	SOLAPUR-RAICHUR	2	1002	1291	6.8	4.7	2.1	
4	765 kV	WARDHA-NIZAMABAD	2	0	2552	0.0	35.8	-35.8	
5	400 kV	KOLHAPUR-KUDCI	2	1641	0	30.9	0.0	30.9	
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	88	1.6	0.0	1.6	
						WR-SR	125.0	40.5	84.5
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)	489	0	433	10.4			
	ER	400KV TALA-BINAGURI 1,2,3 (& 400KV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	737	644	700	16.8			
	ER	220KV CHUKHA-BIRPARA 1&2 (& 220KV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	174	0	49	1.2			
	NER	132KV GELEPHU-SALAKATI	-38	-8	-12	-0.3			
	NER	132KV MOTANGA-RANGIA	-45	-15	-26	-0.6			
NEPAL	NR	132KV MAHENDRANAGAR-TANAKPUR(NHPC)	-68	0	-54	-1.3			
	ER	NEPAL IMPORT (FROM BIHAR)	-8	0	-27	-0.7			
BANGLADESH	ER	400KV DHALKEBAR-MUZAFFARPUR 1&2	447	230	299	7.2			
	NER	BHERAMARA B/B HVDC (BANGLADESH)	-502	-494	-499	-12.0			
		132KV COMILLA-SURAJMANJANAGAR 1&2	-155	0	-138	-3.3			