



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: 02nd 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 01.07.2022.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 01-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 01st 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: 02-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)	60730	51702	42850	23382	3044	181708
Peak Shortage (MW)	0	0	0	0	46	46
Energy Met (MU)	1324	1237	1004	525	57	4147
Hydro Gen (MU)	340	20	47	118	34	559
Wind Gen (MU)	35	158	222	-	-	414
Solar Gen (MU)*	62.09	38.47	98.62	5.51	0.60	205
Energy Shortage (MU)	3.02	0.00	0.00	0.66	0.65	4.33
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	64418	53314	47021	24828	3075	183054
Time Of Maximum Demand Met (From NLDC SCADA)	22:23	11:09	11:42	00:00	19:37	19:52

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	0.061	0.00	3.30	7.27	10.57	69.73	19.71

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	11621	0	231.3	159.4	-7.9	221	0.00
	Haryana	8937	0	184.9	122.8	0.7	477	0.00
	Rajasthan	10741	0	246.0	66.8	-2.6	411	0.00
	Delhi	5289	0	112.8	102.5	-1.5	154	0.00
	UP	22398	0	419.3	201.4	3.1	773	2.28
	Uttarakhand	2143	0	44.8	25.1	0.9	194	0.74
	HP	1564	0	32.4	-1.0	-0.3	119	0.00
	J&K(UT) & Ladakh(UT)	1997	0	47.2	29.4	-7.2	58	0.00
	Chandigarh	279	0	5.8	6.1	-0.4	10	0.00
	Chhattisgarh	4532	0	107.8	52.7	0.0	176	0.00
WR	Gujarat	17428	0	383.0	180.4	-3.6	967	0.00
	MP	9287	0	212.8	105.3	0.0	411	0.00
	Maharashtra	21216	0	476.5	161.4	0.0	867	0.00
	Goa	600	0	11.9	11.7	0.0	53	0.00
	DNHDDPDCL	1146	0	26.7	26.9	-0.2	39	0.00
SR	AMNSIL	830	0	18.1	11.5	0.3	255	0.00
	Andhra Pradesh	9080	0	192.7	44.2	-2.8	487	0.00
	Telangana	9339	0	181.3	72.4	0.4	547	0.00
	Karnataka	10855	0	202.9	53.5	-2.4	971	0.00
	Kerala	3378	0	67.9	51.2	-0.2	210	0.00
	Tamil Nadu	16834	0	349.9	150.7	-6.0	922	0.00
	Puducherry	441	0	9.8	10.1	-0.4	25	0.00
ER	Bihar	5857	0	115.0	106.9	-1.1	373	0.28
	DVC	3377	0	72.5	-26.8	0.0	294	0.00
	Jharkhand	1625	0	33.1	26.2	-0.2	275	0.38
	Odisha	5815	0	120.4	65.4	-1.9	433	0.00
	West Bengal	8829	0	182.1	65.5	-1.4	410	0.00
NER	Sikkim	94	0	1.6	1.1	0.5	45	0.00
	Arunachal Pradesh	138	0	2.6	2.1	0.1	23	0.00
	Assam	2021	0	36.7	28.4	0.1	119	0.00
	Manipur	183	0	2.6	2.6	0.0	22	0.00
	Meghalaya	279	46	5.4	2.4	0.1	73	0.65
	Mizoram	99	0	1.8	1.4	-0.1	10	0.00
	Nagaland	150	0	2.7	2.3	-0.1	19	0.00
	Tripura	302	0	5.1	4.4	0.1	50	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	41.8	7.2	-24.1
Day Peak (MW)	1950.0	334.4	-1050.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	247.7	-148.0	15.3	-106.2	-8.7	0.0
Actual(MU)	227.1	-124.5	5.2	-95.4	-7.5	4.9
O/D/U/D(MU)	-20.5	23.5	-10.1	10.9	1.2	4.9

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3612	13186	6198	2305	822	26122	43
State Sector	8180	17031	7040	2712	295	35257	57
Total	11792	30216	13238	5017	1117	61380	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	627	1131	491	541	13	2802	65
Lignite	28	12	65	0	0	105	2
Hydro	343	20	47	118	34	561	13
Nuclear	30	33	67	0	0	130	3
Gas, Naptha & Diesel	15	6	9	0	22	53	1
RES (Wind, Solar, Biomass & Others)	113	196	363	6	1	679	16
Total	1155	1399	1042	664	70	4329	100

Share of RES in total generation (%)	9.81	14.02	34.86	0.83	0.86	15.68
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	42.04	17.82	45.82	18.55	49.38	31.64

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.052
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)

Date of Reporting: 02-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	1002	0.0	24.0	-24.0	
2	HVDC	PUSAULI B/B	-	0	49	0.0	1.3	-1.3	
3	765 kV	GAYA-VARANASI	2	493	163	4.9	0.0	4.9	
4	765 kV	SASARAM-FATEHPUR	1	10	339	0.0	4.3	-4.3	
5	765 kV	GAYA-BALIA	1	0	614	0.0	9.5	-9.5	
6	400 kV	PUSAULI-VARANASI	1	0	62	0.0	0.7	-0.7	
7	400 kV	PUSAULI-ALLAHABAD	1	4	53	0.0	0.4	-0.4	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	828	0.0	13.6	-13.6	
9	400 kV	PATNA-BALIA	2	0	597	0.0	10.4	-10.4	
10	400 kV	NAUBATPUR-BALIA	2	0	640	0.0	10.9	-10.9	
11	400 kV	BIHARSHARIFF-BALIA	2	0	524	0.0	7.6	-7.6	
12	400 kV	MOTIHARI-GORAKHPUR	2	0	473	0.0	7.2	-7.2	
13	400 kV	BIHARSHARIFF-VARANASI	2	161	203	0.0	0.1	-0.1	
14	220 kV	SINPUR-BIKRAMNASHA	1	0	169	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	0.2	0.0	0.2	
17	132 kV	KARMANASA-SAHUPURI	1	0	41	0.0	0.0	0.0	
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0	
						ER-NR	5.2	92.9	-87.7
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	629	0	26.3	0.0	26.3	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1417	0	23.1	0.0	23.1	
3	765 kV	JHARSUGUDA-DURG	2	0	314	0.0	0.7	-0.7	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	312	0.0	6.9	-6.9	
5	400 kV	RANCHI-SIPAT	2	256	140	2.9	0.0	2.9	
6	220 kV	BUDHIPADAR-RAIGARH	1	15	96	0.0	2.0	-2.0	
7	220 kV	BUDHIPADAR-KORBA	2	155	11	1.7	0.0	1.7	
						ER-WR	53.9	9.5	44.4
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	335	0	8.0	0.0	8.0	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1641	0.0	36.1	-36.1	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2977	0.0	52.2	-52.2	
4	400 kV	TALCHER-I/C	2	578	117	8.5	0.0	8.5	
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0	
						ER-SR	8.0	88.4	-80.4
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	0	487	0.0	7.0	-7.0	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	39	542	0.0	7.0	-7.0	
3	220 kV	ALIPURDUAR-SALAKATI	2	0	141	0.0	2.2	-2.2	
						ER-NER	0.0	16.3	-16.3
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	1005	0.0	24.4	-24.4	
						NER-NR	0.0	24.4	-24.4
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1528	0.0	19.8	-19.8	
2	HVDC	VINDHYACHAL B/B	-	442	0	7.6	0.0	7.6	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	71	0.0	7.9	-7.9	
4	765 kV	GWALIOR-AGRA	2	392	1728	0.4	26.1	-25.7	
5	765 kV	GWALIOR-PHAGI	2	0	1226	0.0	19.9	-19.9	
6	765 kV	JABALPUR-ORAI	2	15	699	0.0	20.7	-20.7	
7	765 kV	GWALIOR-ORAI	1	651	0	12.6	0.0	12.6	
8	765 kV	SATNA-ORAI	1	0	913	0.0	17.6	-17.6	
9	765 kV	BANASKANTHA-CHITORGARH	2	1399	403	5.4	0.0	5.4	
10	765 kV	VINDHYACHAL-VARANASI	2	0	3103	0.0	61.0	-61.0	
11	400 kV	ZERDA-KANKROLI	1	320	53	2.2	0.0	2.2	
12	400 kV	ZERDA-JBHINMAL	1	465	97	4.5	0.0	4.5	
13	400 kV	VINDHYACHAL-RIHAND	1	961	0	21.8	0.0	21.8	
14	400 kV	RAPP-SHULIAPUR	2	0	0	0.0	0.0	0.0	
15	220 kV	BHANUPUR-RANPUR	1	0	0	0.0	0.0	0.0	
16	220 kV	BHANUPUR-MORAK	1	0	30	0.0	2.2	-2.2	
17	220 kV	MEHGAON-AURAIYA	1	117	0	0.6	0.0	0.6	
18	220 kV	MALANPUR-AURAIYA	1	86	5	1.1	0.0	1.1	
19	132 kV	GWALIOR-SAWAIMADHOPUR	1	0	0	0.0	0.0	0.0	
20	132 kV	RAJGHAT-LALITPUR	2	0	0	13.1	0.0	13.1	
						WR-NR	69.3	175.2	-106.0
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	312	0.0	7.2	-7.2	
2	HVDC	RAIGARH-PUGALUR	2	2879	0	43.6	0.0	43.6	
3	765 kV	SOLAPUR-RAICHUR	2	1240	1567	4.8	7.3	-2.5	
4	765 kV	WARDHA-NIZAMABAD	2	0	2611	0.0	33.3	-33.3	
5	400 kV	KOLHAPUR-KUDCI	2	1529	0	24.4	0.0	24.4	
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	98	1.7	0.0	1.7	
						WR-SR	74.5	47.8	26.7
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)	604	571	582	14.0			
	ER	400KV TALA-BINAGURI 1,2,3 (& 400KV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	1107	0	1059	25.4			
	ER	220KV CHUKHA-BIRPARA 1&2 (& 220KV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	210	0	157	3.8			
	NER	132KV GELEPHU-SALAKATI	-28	-8	-16	-0.4			
	NER	132KV MOTANGA-RANGIA	-56	-23	-39	-0.9			
NEPAL	NR	132KV MAHENDRANAGAR-TANAKPUR(NHPC)	-55	0	-29	-0.7			
	ER	NEPAL IMPORT (FROM BIHAR)	-41	-2	-19	-0.4			
BANGLADESH	ER	400KV DHALKEBAR-MUZAFFARPUR 1&2	430	224	345	8.3			
	NER	BHERAMARA B/B HVDC (BANGLADESH)	-928	-879	-898	-21.6			
		132KV COMILLA-SURAJMANI 1&2	-122	0	-105	-2.5			