



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: 13th 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 12.07.2022.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 12-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 12th 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: 13-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)	66502	48668	38694	25804	3244	182912
Peak Shortage (MW)	0	0	0	484	0	484
Energy Met (MU)	1593	1106	858	551	62	4170
Hydro Gen (MU)	371	29	100	109	33	642
Wind Gen (MU)	9	186	297	-	-	492
Solar Gen (MU)*	109.26	27.72	66.06	4.33	0.68	208
Energy Shortage (MU)	5.17	0.00	0.00	4.66	0.00	9.83
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	72639	48014	39645	25795	3297	184019
Time Of Maximum Demand Met (From NLDC SCADA)	22:35	19:38	07:47	20:00	19:18	19:54

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	0.034	0.00	0.23	6.21	6.45	74.90	18.66

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	13806	0	313.9	191.8	-1.4	77	0.00
	Haryana	10771	0	236.1	170.3	-0.2	197	0.00
	Rajasthan	11337	0	248.4	69.7	-1.1	422	0.00
	Delhi	6318	0	126.2	115.0	-2.7	160	0.00
	UP	25723	190	527.6	257.6	-0.4	682	3.81
	Uttarakhand	2186	0	48.1	27.7	-0.6	109	0.75
	HP	1534	0	32.2	-5.0	-2.3	9	0.61
	J&K(UT) & Ladakh(UT)	2116	0	54.1	31.4	-2.6	133	0.00
	Chandigarh	339	0	6.9	7.0	-0.2	34	0.00
	WR	Chhattisgarh	4195	0	101.6	43.0	0.0	196
Gujarat		14039	0	311.9	152.2	-6.2	664	0.00
MP		9337	0	210.1	103.8	0.0	338	0.00
Maharashtra		19873	0	424.0	118.5	-0.7	634	0.00
Goa		574	0	11.7	11.5	0.1	53	0.00
DNHDDPDCL		1165	0	26.7	26.6	0.1	50	0.00
AMNSIL		902	0	19.8	11.2	-0.1	242	0.00
SR	Andhra Pradesh	7317	0	158.8	-4.4	-1.6	445	0.00
	Telangana	7157	0	135.3	62.8	0.1	425	0.00
	Karnataka	8110	0	159.0	21.3	-1.9	656	0.00
	Kerala	3412	0	69.0	39.3	-1.1	234	0.00
	Tamil Nadu	14936	0	327.1	116.2	-2.7	986	0.00
	Puducherry	408	0	8.9	8.7	-0.5	19	0.00
ER	Bihar	6584	0	134.6	125.9	0.7	498	4.34
	DVC	3632	0	76.7	-39.6	-0.4	301	0.00
	Jharkhand	1713	0	34.1	26.4	-0.5	252	0.32
	Odisha	5485	0	118.3	50.5	-1.5	337	0.00
	West Bengal	9119	0	185.9	75.3	0.2	365	0.00
NER	Sikkim	97	0	1.6	1.6	0.0	17	0.00
	Arunachal Pradesh	143	0	2.6	2.6	-0.3	26	0.00
	Assam	2150	0	40.9	32.5	0.0	177	0.00
	Manipur	195	0	2.8	2.8	0.0	14	0.00
	Meghalaya	328	0	6.1	0.7	-0.1	39	0.00
	Mizoram	98	0	1.6	1.3	-0.1	42	0.00
	Nagaland	149	0	2.7	2.4	-0.3	10	0.00
	Tripura	306	0	5.7	6.2	0.2	47	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	29.9	6.0	-13.7
Day Peak (MW)	1430.0	308.0	-585.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	343.7	-192.1	-49.6	-95.1	-6.8	0.0
Actual(MU)	348.5	-176.9	-84.4	-81.6	-9.8	-4.1
O/D/U/D(MU)	4.8	15.2	-34.7	13.6	-3.0	-4.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4210	15886	9568	2555	309	32527	44
State Sector	6895	17934	13675	2590	281	41374	56
Total	11105	33819	23243	5145	590	73901	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	730	1051	341	557	15	2695	62
Lignite	24	4	56	0	0	85	2
Hydro	373	29	100	109	33	644	15
Nuclear	29	8	68	0	0	105	2
Gas, Naptha & Diesel	20	3	8	0	29	60	1
RES (Wind, Solar, Biomass & Others)	139	214	398	4	1	756	17
Total	1316	1310	971	670	78	4345	100
Share of RES in total generation (%)	10.54	16.33	41.01	0.65	0.88	17.40	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	41.13	19.15	58.27	16.93	43.04	34.64	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.029
Based on State Max Demands	1.063

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: 13-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	1400	0.0	34.7	-34.7	
2	HVDC	PUSAULI B/B	2	0	49	0.0	1.3	-1.3	
3	765 kV	GAYA-VARANASI	2	677	281	3.1	0.0	3.1	
4	765 kV	SASARAM-FATEHPUR	1	179	238	0.0	1.4	-1.4	
5	765 kV	GAYA-BALIA	1	0	854	0.0	15.1	-15.1	
6	400 kV	PUSAULI-VARANASI	1	17	62	0.0	0.4	-0.4	
7	400 kV	PUSAULI-ALLAHABAD	1	6	78	0.0	0.7	-0.7	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	849	0.0	13.7	-13.7	
9	400 kV	PATNA-BALIA	2	0	612	0.0	9.1	-9.1	
10	400 kV	NAUBATPUR-BALIA	2	0	643	0.0	10.3	-10.3	
11	400 kV	BIHARSHARIFF-BALIA	2	7	514	0.0	7.0	-7.0	
12	400 kV	MOTIHARI-GORAKHPUR	2	0	451	0.0	7.0	-7.0	
13	400 kV	BIHARSHARIFF-VARANASI	2	201	193	0.0	1.1	-1.1	
14	220 kV	SINHPUR-KARAMNASI	1	0	162	0.0	2.4	-2.4	
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.1	-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	3.5	104.1	-100.6
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	629	0	8.0	0.0	8.0	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1663	0	29.9	0.0	29.9	
3	765 kV	JHARSUGUDA-DURG	2	0	314	0.0	2.9	-2.9	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	312	0.0	3.3	-3.3	
5	400 kV	RANCHI-SIPAT	2	357	0	6.6	0.0	6.6	
6	220 kV	BUDHIPADAR-RAIGARH	1	18	109	0.0	1.4	-1.4	
7	220 kV	BUDHIPADAR-KORBA	2	72	8	0.8	0.0	0.8	
						ER-WR	45.3	7.5	37.7
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	587	0	14.4	0.0	14.4	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1194	0.0	28.9	-28.9	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2656	0.0	40.2	-40.2	
4	400 kV	TALCHER-I/C	2	721	189	12.9	0.0	12.9	
5	220 kV	BALMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0	
						ER-SR	14.4	69.1	-54.7
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	0	428	0.0	5.6	-5.6	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	288	247	0.4	0.0	0.4	
3	220 kV	ALIPURDUAR-SALAKATI	2	15	87	0.0	0.9	-0.9	
						ER-NER	0.4	6.5	-6.1
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	703	0.0	16.9	-16.9	
						NER-NR	0.0	16.9	-16.9
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	5025	0.0	62.0	-62.0	
2	HVDC	VINDHYACHAL B/B	2	447	0	12.2	0.0	12.2	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	2021	0.0	42.2	-42.2	
4	765 kV	GWALIOR-AGRA	2	0	2026	0.0	32.4	-32.4	
5	765 kV	GWALIOR-PHAGI	2	300	1464	0.5	18.6	-18.1	
6	765 kV	JABALPUR-ORAI	2	0	1063	0.0	33.4	-33.4	
7	765 kV	GWALIOR-ORAI	1	480	0	7.5	0.0	7.5	
8	765 kV	SATNA-ORAI	1	0	1059	0.0	20.7	-20.7	
9	765 kV	BANASKANTHA-CHITORGARH	2	935	81	8.4	0.0	8.4	
10	765 kV	VINDHYACHAL-VARANASI	2	0	3801	0.0	75.2	-75.2	
11	400 kV	ZERDA-KANKROLI	1	224	16	2.4	0.0	2.4	
12	400 kV	ZERDA-JBHINMAL	1	448	35	4.8	0.0	4.8	
13	400 kV	VINDHYACHAL-RIHAND	1	961	0	20.8	0.0	20.8	
14	400 kV	RAPP-SHILAI PUR	2	255	584	1.4	4.9	-3.5	
15	220 kV	BHANUPURA-RANPUR	1	0	1	0.0	0.0	0.0	
16	220 kV	BHANUPURA-MORAK	1	0	30	0.0	2.4	-2.4	
17	220 kV	MEHGAON-AURAIYA	1	59	0	0.3	0.1	0.2	
18	220 kV	MALANPUR-AURAIYA	1	67	18	0.3	0.0	0.3	
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	58.6	291.9	-233.3
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	984	0	24.0	0.0	24.0	
2	HVDC	RAIGARH-PUGALUR	2	2872	0	61.1	0.0	61.1	
3	765 kV	SOLAPUR-RAICHUR	2	1534	1207	11.4	5.0	6.4	
4	765 kV	WARDHA-NIZAMABAD	2	0	2513	0.0	29.6	-29.6	
5	400 kV	KOLHAPUR-KUDCI	2	1590	0	29.7	0.0	29.7	
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	107	1.9	0.0	1.9	
						WR-SR	128.1	34.6	93.5
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)	514	0	453	10.9			
	ER	400KV TALA-BINAGURI 1,2,3 (& 400KV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	815	658	723	17.4			
	ER	220KV CHUKHA-BIRPARA 1&2 (& 220KV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	105	94	105	2.6			
	NER	132KV GELEPHU-SALAKATI	9	0	5	0.1			
	NER	132KV MOTANGA-RANGIA	46	29	37	0.9			
NEPAL	NR	132KV MAHENDRANAGAR-TANAKPUR(NHPC)	-74	0	-49	-1.2			
	ER	NEPAL IMPORT (FROM BIHAR)	8	4	-6	-0.2			
BANGLADESH	ER	400KV DHALKEBAR-MUZAFFARPUR 1&2	374	208	304	7.3			
	NER	BHERAMARA B/B HVDC (BANGLADESH)	-505	-493	-499	-12.0			
	NER	132KV COMILLA-SURAJMANJANAGAR 1&2	-80	0	-72	-1.7			