National Load Despatch Centre
राष्ट्रीय भार प्रेषण केंद्र
POWER SYSTEM OPERATION CORPORATION LIMITED
पॉवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड
(Government of India Enterprise/ भारत सरकार का उद्यम)
B-9, QUTUB INSTITUTIONAL AREA, KATWARIA SARAI, NEW DELHI -110016
बी-9, क़ुतुब इन्स्टीट्यूशनल एरिया, कटवारिया सराये, न्यू दिल्ली-110016

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 31st 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., डोंगतिएह, 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 30.07.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 30-जुलाई-2022 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा०भा०प्रे०के० की वेबसाइट पर उप्लब्ध 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 30th 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:** **31-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)	57482	53043	42086	25144	3153	180908
Peak Shortage (MW)	35	0	0	945	0	980
Energy Met (MU)	1294	1210	992	568	62	4125
Hydro Gen (MU)	354	107	126	135	33	755
Wind Gen (MU)	46	108	30	-	-	184
Solar Gen (MU)*	90.41	41.45	103.44	4.66	0.49	240
Energy Shortage (MU)	0.07	0.12	0.00	4.56	0.00	4.75
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	59813	52811	47227	26852	3158	182033
Time Of Maximum Demand Met (From NLDC SCADA)	20:40	19:41	11:56	22:49	19:13	19:57

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	0.026	0.00	0.00	1.40	1.40	69.49	29.11

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	10697	0	237.3	153.7	-1.7	150	0.00
	Haryana	7957	0	168.8	105.8	0.3	234	0.00
	Rajasthan	10299	0	227.4	23.8	-1.2	427	0.00
	Delhi	4978	0	107.1	96.6	-1.5	124	0.01
	UP	21097	0	423.4	187.0	1.3	420	0.00
	Uttarakhand	2045	0	44.5	22.9	0.2	86	0.06
	HP	1537	0	30.1	-7.7	-0.4	59	0.00
	J&K(UT) & Ladakh(UT)	2039	0	49.2	29.3	-4.4	118	0.00
	Chandigarh	274	0	5.9	6.4	-0.5	17	0.00
WR	Chhattisgarh	4703	0	109.0	58.9	-0.9	540	0.12
	Gujarat	15846	0	347.2	179.2	-2.2	751	0.00
	MP	10084	0	224.1	105.2	0.0	293	0.00
	Maharashtra	20842	0	468.4	197.3	0.2	870	0.00
	Goa	623	0	13.0	12.8	0.2	44	0.00
	DNHDDPDCL	1173	0	27.5	27.4	0.1	51	0.00
	AMNSIL	910	0	20.3	11.4	0.3	247	0.00
SR	Andhra Pradesh	9564	0	204.3	94.1	1.3	714	0.00
	Telangana	12087	0	211.5	84.4	1.3	623	0.00
	Karnataka	8763	0	171.9	49.2	0.1	868	0.00
	Kerala	3549	0	75.6	37.8	-0.5	239	0.00
	Tamil Nadu	14321	0	318.7	173.7	-0.1	536	0.00
	Puducherry	431	0	9.8	9.2	0.0	42	0.00
ER	Bihar	6352	0	130.5	116.9	0.9	345	1.65
	DVC	3408	0	75.6	-36.9	0.0	289	0.00
	Jharkhand	1501	43	30.5	24.2	-1.8	249	2.90
	Odisha	6216	0	134.9	64.2	1.9	475	0.00
	West Bengal	9327	0	195.0	65.7	0.3	477	0.00
	Sikkim	85	0	1.4	1.5	-0.1	14	0.00
NER	Arunachal Pradesh	138	0	2.4	2.0	0.0	40	0.00
	Assam	2061	0	40.7	32.4	0.2	90	0.00
	Manipur	197	0	2.7	2.7	0.0	19	0.00
	Meghalaya	329	0	5.9	0.2	0.0	93	0.00
	Mizoram	107	0	1.8	0.7	-0.1	13	0.00
	Nagaland	165	0	2.7	2.3	-0.1	11	0.00
	Tripura	289	0	5.6	5.7	0.2	64	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	40.8	8.7	-24.9
Day Peak (MW)	1819.0	403.0	-1070.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	136.7	-114.5	111.5	-123.0	-10.8	0.0
Actual(MU)	101.3	-108.1	121.6	-112.2	-10.3	-7.7
O/D/U/D(MU)	-35.5	6.4	10.1	10.7	0.5	-7.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3602	15666	7138	1565	309	28279	44
State Sector	7320	18529	8492	2213	120	36673	56
Total	10922	34194	15630	3778	429	64952	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	688	1036	484	569	15	2791	65
Lignite	26	11	62	0	0	100	2
Hydro	356	107	126	135	33	758	18
Nuclear	29	33	47	0	0	109	3
Gas, Naptha & Diesel	16	2	10	0	30	58	1
RES (Wind, Solar, Biomass & Others)	156	150	182	5	0	493	11
Total	1271	1340	911	709	79	4309	100

Share of RES in total generation (%)	12.26	11.22	19.98	0.65	0.62	11.44
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	42.60	21.63	38.95	19.76	43.00	31.55

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.043
Based on State Max Demands	1.066

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: 31-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	1001	0.0	24.5	-24.5
2	HVDC	PUSAULI B/B	-	0	49	0.0	1.2	-1.2
3	765 kV	GAYA-VARANASI	2	505	372	1.2	0.0	1.2
4	765 kV	SASARAM-FATEHPUR	1	141	329	0.0	3.2	-3.2
5	765 kV	GAYA-BALIA	1	140	400	0.0	4.0	-4.0
6	400 kV	PUSAULI-VARANASI	1	5	68	0.0	0.5	-0.5
7	400 kV	PUSAULI -ALLAHABAD	1	12	63	0.0	0.5	-0.5
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	816	0.0	12.6	-12.6
9	400 kV	PATNA-BALIA	2	64	426	0.0	6.4	-6.4
10	400 kV	NAUBATPUR-BALIA	2	105	445	0.0	6.6	-6.6
11	400 kV	BIHARSHARIFF-BALIA	2	309	239	0.0	1.2	-1.2
12	400 kV	MOTIHARI-GORAKHPUR	2	32	412	0.0	6.2	-6.2
13	400 kV	BIHARSHARIFF-VARANASI	2	295	200	0.0	0.5	-0.5
14	220 kV	SAHUPURI-KARAMNASA	1	0	179	0.0	2.2	-2.2
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	25	0	0.4	0.0	0.4
17	132 kV	KARMANASA-SAHUPURI	1	0	53	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	1.6	69.6	-68.1
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	629	0	23.2	0.0	23.2
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	829	629	7.1	0.0	7.1
3	765 kV	JHARSUGUDA-DURG	2	0	314	0.0	2.8	-2.8
4	400 kV	JHARSUGUDA-RAIGARH	4	0	312	0.0	1.2	-1.2
5	400 kV	RANCHI-SIPAT	2	221	218	0.6	0.0	0.6
6	220 kV	BUDHIPADAR-RAIGARH	1	32	84	0.0	0.8	-0.8
7	220 kV	BUDHIPADAR-KORBA	2	131	13	1.3	0.0	1.3
					ER-WR	32.1	4.8	27.3
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	655	0.0	15.0	-15.0
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1990	0.0	48.1	-48.1
3	765 kV	ANGUL-SRIKAKULAM	2	0	2585	0.0	45.3	-45.3
4	400 kV	TALCHER-I/C	2	0	496	0.0	5.8	-5.8
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
					ER-SR	0.0	108.4	-108.4
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	1	293	0.0	3.5	-3.5
2	400 kV	ALIPURDUAR-BONGAIGAON	2	147	289	0.0	1.4	-1.4
3	220 kV	ALIPURDUAR-SALAKATI	2	11	67	0.0	0.8	-0.8
					ER-NER	0.0	5.7	-5.7
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	704	0.0	17.0	-17.0
					NER-NR	0.0	17.0	-17.0
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	325	0.0	7.5	-7.5
2	HVDC	VINDHYACHAL B/B	-	443	0	12.2	0.0	12.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	0	0.0	0.0	0.0
4	765 kV	GWALIOR-AGRA	2	245	1136	0.4	15.4	-15.1
5	765 kV	GWALIOR-PHAGI	2	1135	884	6.0	9.9	-3.9
6	765 kV	JABALPUR-ORAI	2	138	565	0.0	10.5	-10.5
7	765 kV	GWALIOR-ORAI	1	633	0	9.1	0.0	9.1
8	765 kV	SATNA-ORAI	1	0	834	0.0	15.9	-15.9
9	765 kV	BANASKANTHA-CHITORGARH	2	1323	0	13.0	0.0	13.0
10	765 kV	VINDHYACHAL-VARANASI	2	0	2507	0.0	45.4	-45.4
11	400 kV	ZERDA-KANKROLI	1	303	0	4.3	0.0	4.3
12	400 kV	ZERDA -BHINMAL	1	718	0	10.8	0.0	10.8
13	400 kV	VINDHYACHAL -RIHAND	1	956	0	21.4	0.0	21.4
14	400 kV	RAPP-SHUJALPUR	2	667	186	5.2	0.7	4.5
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.2	-2.2
17	220 kV	MEHGAON-AURAIYA	1	124	0	1.2	0.0	1.2
18	220 kV	MALANPUR-AURAIYA	1	89	0	1.9	0.0	1.9
19	132 kV	GWALIOR-SAWAI MADHOPUR	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	85.3	107.6	-22.3
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	787	512	12.6	0.8	11.8
2	HVDC	RAIGARH-PUGALUR	2	0	2007	0.0	42.9	-42.9
3	765 kV	SOLAPUR-RAICHUR	2	467	1564	1.4	10.9	-9.5
4	765 kV	WARDHA-NIZAMABAD	2	0	3101	0.0	45.5	-45.5
5	400 kV	KOLHAPUR-KUDGI	2	1451	0	26.1	0.0	26.1
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	110	2.1	0.0	2.1
					WR-SR	42.0	100.1	-58.0

INTERNATIONAL EXCHANGES

Import(+ve)/Export(-ve)

State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange (MU)
BHUTAN	ER	400kV MANGDECHHU-ALIPURDUAR 1,2&3 i.e. ALIPURDUAR RECEIPT (from MANGDECHU HEP 4*180MW)	625	0	586	14.1
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1008	995	997	23.9
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	189	0	158	3.8
	NER	132kV GELEPHU-SALAKATI	15	0	7	0.2
	NER	132kV MOTANGA-RANGIA	43	22	32	0.8
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-26	0	-2	-0.1
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.0
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	429	328	366	8.8
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-911	-857	-885	-21.2
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-159	0	-154	-3.7