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, कुतुब इन्स्टीट्यूशनल एरिया, कटवारिया सराये, न्यू दिल्ली-110016

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 26th 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 25.07.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 25-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 25th 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:** **26-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)	59760	50369	41667	25494	3092	180382
Peak Shortage (MW)	0	0	0	407	0	407
Energy Met (MU)	1371	1129	975	528	58	4061
Hydro Gen (MU)	351	102	155	128	34	770
Wind Gen (MU)	14	161	98	-	-	273
Solar Gen (MU)*	88.98	29.22	98.24	4.50	0.50	221
Energy Shortage (MU)	0.55	0.00	0.00	4.28	0.00	4.83
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	63784	50378	46928	25671	3120	181928
Time Of Maximum Demand Met (From NLDC SCADA)	22:37	19:44	10:51	19:39	19:00	19:55

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	0.028	0.00	0.03	2.41	2.44	72.39	25.17

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	12179	0	260.4	171.1	-1.3	110	0.00
	Haryana	9778	0	202.1	127.3	1.8	305	0.00
	Rajasthan	9682	0	215.9	50.4	-0.5	330	0.00
	Delhi	5770	0	119.9	109.7	-1.8	111	0.00
	UP	21200	0	442.6	201.7	0.5	582	0.00
	Uttarakhand	2225	0	46.0	22.1	0.4	204	0.25
	HP	1547	54	31.2	-7.9	-1.0	38	0.30
	J&K(UT) & Ladakh(UT)	1940	0	46.1	27.1	-6.5	168	0.00
	Chandigarh	340	0	6.9	7.1	-0.2	17	0.00
WR	Chhattisgarh	4090	0	97.1	52.7	-0.1	330	0.00
	Gujarat	14646	0	324.2	156.1	-4.1	659	0.00
	MP	9079	0	201.4	76.7	0.0	687	0.00
	Maharashtra	20814	0	450.0	156.7	-0.4	849	0.00
	Goa	589	0	11.9	12.0	-0.1	50	0.00
	DNHDDPDCL	1129	0	25.9	25.8	0.1	49	0.00
	AMNSIL	856	0	18.1	11.0	0.5	278	0.00
SR	Andhra Pradesh	9352	0	195.2	65.7	3.6	974	0.00
	Telangana	10889	0	194.7	84.3	2.3	673	0.00
	Karnataka	10106	0	188.5	59.0	0.1	568	0.00
	Kerala	3615	0	71.9	36.6	0.3	313	0.00
	Tamil Nadu	14776	0	315.7	144.9	1.0	1056	0.00
	Puducherry	403	0	9.2	8.7	-0.2	59	0.00
ER	Bihar	6670	0	125.0	120.6	-0.9	582	2.73
	DVC	3473	0	75.2	-38.9	-0.3	300	0.00
	Jharkhand	1525	329	31.1	24.5	-2.0	211	1.55
	Odisha	5886	0	124.1	64.9	-2.0	342	0.00
	West Bengal	8635	0	171.2	51.2	0.6	421	0.00
	Sikkim	101	0	1.5	1.5	0.0	25	0.00
NER	Arunachal Pradesh	130	0	2.6	2.2	0.0	53	0.00
	Assam	2031	0	37.7	30.6	-0.1	125	0.00
	Manipur	171	0	2.4	2.6	-0.1	20	0.00
	Meghalaya	331	0	5.9	0.2	0.1	78	0.00
	Mizoram	98	0	1.4	0.8	-0.3	10	0.00
	Nagaland	149	0	2.7	2.2	0.2	24	0.00
	Tripura	285	0	5.1	5.3	-0.2	29	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	38.4	6.8	-24.9
Day Peak (MW)	1802.0	302.0	-1075.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	233.6	-162.5	45.6	-103.2	-13.6	0.0
Actual(MU)	209.9	-168.2	70.1	-102.3	-13.0	-3.5
O/D/U/D(MU)	-23.7	-5.7	24.4	0.9	0.5	-3.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4483	17581	6888	2625	309	31885	44
State Sector	7885	18894	11250	2340	99	40467	56
Total	12368	36474	18138	4965	408	72352	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	699	959	427	540	14	2639	62
Lignite	27	9	67	0	0	103	2
Hydro	353	102	155	128	34	773	18
Nuclear	27	40	46	0	0	113	3
Gas, Naptha & Diesel	18	17	9	0	29	74	2
RES (Wind, Solar, Biomass & Others)	124	191	240	5	1	560	13
Total	1250	1318	944	672	78	4262	100

Share of RES in total generation (%)	9.92	14.50	25.44	0.67	0.64	13.15
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	40.39	25.29	46.73	19.67	44.42	33.93

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.044
Based on State Max Demands	1.069

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: 26-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	752	0.0	18.2	-18.2
2	HVDC	PUSAULI B/B	-	0	49	0.0	1.3	-1.3
3	765 kV	GAYA-VARANASI	2	540	329	1.4	0.0	1.4
4	765 kV	SASARAM-FATEHPUR	1	137	244	0.0	2.0	-2.0
5	765 kV	GAYA-BALIA	1	0	618	0.0	9.6	-9.6
6	400 kV	PUSAULI-VARANASI	1	10	88	0.0	0.8	-0.8
7	400 kV	PUSAULI -ALLAHABAD	1	29	68	0.0	0.3	-0.3
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	832	0.0	13.8	-13.8
9	400 kV	PATNA-BALIA	2	0	610	0.0	11.4	-11.4
10	400 kV	NAUBATPUR-BALIA	2	0	654	0.0	11.4	-11.4
11	400 kV	BIHARSHARIFF-BALIA	2	0	490	0.0	6.9	-6.9
12	400 kV	MOTIHARI-GORAKHPUR	2	0	454	0.0	7.2	-7.2
13	400 kV	BIHARSHARIFF-VARANASI	2	215	196	0.0	0.4	-0.4
14	220 kV	SAHUPURI-KARAMNASA	1	0	125	0.0	1.5	-1.5
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.1	0.0	0.1
16	132 kV	GARWAH-RIHAND	1	25	0	0.3	0.0	0.3
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	1.7	84.8	-83.0
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	629	0	8.6	0.0	8.6
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	924	632	8.9	0.0	8.9
3	765 kV	JHARSUGUDA-DURG	2	0	314	0.0	2.3	-2.3
4	400 kV	JHARSUGUDA-RAIGARH	4	0	312	0.0	1.0	-1.0
5	400 kV	RANCHI-SIPAT	2	207	195	1.6	0.0	1.6
6	220 kV	BUDHIPADAR-RAIGARH	1	15	93	0.0	1.0	-1.0
7	220 kV	BUDHIPADAR-KORBA	2	93	47	0.6	0.0	0.6
					ER-WR	19.7	4.4	15.3
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	587	0	14.5	0.0	14.5
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	2000	0.0	41.4	-41.4
3	765 kV	ANGUL-SRIKAKULAM	2	0	3144	0.0	50.1	-50.1
4	400 kV	TALCHER-I/C	2	271	173	3.5	0.0	3.5
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
					ER-SR	14.5	91.6	-77.1
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	96	214	0.2	2.0	-1.8
2	400 kV	ALIPURDUAR-BONGAIGAON	2	255	162	0.0	0.0	0.0
3	220 kV	ALIPURDUAR-SALAKATI	2	31	55	0.0	0.5	-0.5
					ER-NER	0.2	2.6	-2.4
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	704	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	2018	0.0	36.4	-36.4
2	HVDC	VINDHYACHAL B/B	-	442	0	8.3	0.0	8.3
3	HVDC	MUNDRA-MOHINDERGARH	2	0	610	0.0	7.3	-7.3
4	765 kV	GWALIOR-AGRA	2	260	1652	0.2	21.0	-20.8
5	765 kV	GWALIOR-PHAGI	2	739	1286	2.2	12.0	-9.8
6	765 kV	JABALPUR-ORAI	2	57	757	0.0	18.0	-18.0
7	765 kV	GWALIOR-ORAI	1	474	0	6.8	0.0	6.8
8	765 kV	SATNA-ORAI	1	0	970	0.0	17.5	-17.5
9	765 kV	BANASKANTHA-CHITORGARH	2	571	276	3.2	0.0	3.2
10	765 kV	VINDHYACHAL-VARANASI	2	0	2793	0.0	48.1	-48.1
11	400 kV	ZERDA-KANKROLI	1	185	43	1.8	0.0	1.8
12	400 kV	ZERDA -BHINMAL	1	478	37	4.8	0.0	4.8
13	400 kV	VINDHYACHAL -RIHAND	1	962	0	21.5	0.0	21.5
14	400 kV	RAPP-SHUJALPUR	2	418	388	2.8	2.8	0.0
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.8	-1.8
17	220 kV	MEHGAON-AURAIYA	1	111	0	1.3	0.0	1.3
18	220 kV	MALANPUR-AURAIYA	1	77	0	0.7	0.0	0.7
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	53.6	165.0	-111.4
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	984	0	15.6	0.0	15.6
2	HVDC	RAIGARH-PUGALUR	2	572	2499	0.0	24.8	-24.8
3	765 kV	SOLAPUR-RAICHUR	2	458	2105	0.5	12.0	-11.5
4	765 kV	WARDHA-NIZAMABAD	2	0	3297	0.0	47.9	-47.9
5	400 kV	KOLHAPUR-KUDGI	2	1472	0	24.7	0.0	24.7
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	1.9	0.0	1.9
					WR-SR	42.7	84.7	-42.0

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)	570	0	513	12.3
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1103	907	1059	25.4
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	113	0	84	2.0
	NER	132kV GELEPHU-SALAKATI	-22	-3	-20	-0.5
	NER	132kV MOTANGA-RANGIA	-46	-27	-38	-0.9
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-72	0	-33	-0.8
	ER	NEPAL IMPORT (FROM BIHAR)	-21	-2	-15	-0.4
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	395	217	330	7.9
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-915	-866	-890	-21.4
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-160	0	-148	-3.6