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: 16th 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 15.07.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 15-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 15th 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:** **16-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)	62654	48930	41071	24347	3314	180316
Peak Shortage (MW)	0	0	0	534	0	534
Energy Met (MU)	1423	1098	931	550	67	4068
Hydro Gen (MU)	362	47	131	116	31	688
Wind Gen (MU)	32	102	266	-	-	400
Solar Gen (MU)*	73.57	32.21	87.88	4.57	0.72	199
Energy Shortage (MU)	1.64	0.00	0.00	7.67	0.00	9.31
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	68011	48930	44311	25048	3315	181148
Time Of Maximum Demand Met (From NLDC SCADA)	23:01	20:00	09:50	23:30	19:49	20:07

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	0.068	0.50	3.33	11.19	15.02	70.96	14.01

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	10332	0	229.4	155.4	-4.9	68	0.00
	Haryana	9776	0	203.6	152.2	1.1	270	0.01
	Rajasthan	10094	0	217.7	50.6	-5.0	120	0.31
	Delhi	6773	0	129.4	124.1	-6.8	316	0.00
	UP	25951	0	508.8	233.8	0.8	790	0.12
	Uttarakhand	2259	0	49.4	27.1	0.6	116	1.20
	HP	1583	0	30.8	-5.7	-0.5	139	0.00
	J&K(UT) & Ladakh(UT)	1451	0	47.0	27.4	-5.9	125	0.00
	Chandigarh	353	0	6.8	6.9	-0.1	65	0.00
WR	Chhattisgarh	3843	0	91.1	34.6	-1.7	238	0.00
	Gujarat	14168	0	321.9	200.5	-9.1	512	0.00
	MP	9408	0	210.0	107.1	0.0	509	0.00
	Maharashtra	19387	0	420.2	115.7	-1.8	1014	0.00
	Goa	536	0	11.6	11.8	-0.3	82	0.00
	DNHDDPDCL	1104	0	25.3	25.5	-0.2	95	0.00
	AMNSIL	801	0	17.4	11.3	-0.8	180	0.00
SR	Andhra Pradesh	8576	0	183.2	12.9	0.1	709	0.00
	Telangana	8809	0	162.3	66.9	0.6	746	0.00
	Karnataka	8414	0	160.3	16.0	-2.2	786	0.00
	Kerala	3386	0	67.0	34.4	-0.2	276	0.00
	Tamil Nadu	15929	0	348.9	130.7	1.3	1723	0.00
	Puducherry	398	0	8.8	8.6	-0.5	37	0.00
ER	Bihar	6138	1106	131.6	120.0	-0.4	290	7.20
	DVC	3598	0	76.5	-32.5	-0.5	326	0.00
	Jharkhand	1544	0	32.0	24.7	-0.6	245	0.47
	Odisha	5491	0	117.0	51.7	-0.3	597	0.00
	West Bengal	9221	0	191.6	78.1	-0.2	408	0.00
	Sikkim	90	0	1.5	1.4	0.1	24	0.00
NER	Arunachal Pradesh	146	0	2.9	2.7	-0.1	24	0.00
	Assam	2202	0	45.5	37.3	0.5	88	0.00
	Manipur	208	0	2.9	2.9	0.0	15	0.00
	Meghalaya	322	0	6.0	0.5	-0.1	40	0.00
	Mizoram	100	0	1.7	0.8	0.3	17	0.00
	Nagaland	155	0	3.1	2.6	0.0	8	0.00
	Tripura	297	0	5.4	6.2	0.4	48	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	31.5	5.3	-21.6
Day Peak (MW)	1572.0	270.9	-966.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	289.6	-141.3	-68.4	-74.8	-5.0	0.0
Actual(MU)	265.8	-139.2	-72.8	-55.3	-2.2	-3.7
O/D/U/D(MU)	-23.7	2.1	-4.4	19.5	2.8	-3.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4015	15266	6848	3625	372	30126	41
State Sector	9150	17584	12625	3100	251	42709	59
Total	13165	32849	19473	6725	623	72834	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	698	1061	385	525	14	2682	63
Lignite	27	6	59	0	0	91	2
Hydro	365	47	131	116	31	691	16
Nuclear	29	20	61	0	0	111	3
Gas, Naptha & Diesel	15	3	9	0	29	55	1
RES (Wind, Solar, Biomass & Others)	123	135	395	5	1	659	15
Total	1257	1271	1039	646	75	4289	100

Share of RES in total generation (%)	9.81	10.60	38.03	0.71	0.96	15.36
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	41.15	15.88	56.54	18.70	42.87	34.04

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.047
Based on State Max Demands	1.065

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: 16-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	1701	0.0	35.9	-35.9
2	HVDC	PUSAULI B/B	-	0	49	0.0	1.2	-1.2
3	765 kV	GAYA-VARANASI	2	749	13	8.0	0.0	8.0
4	765 kV	SASARAM-FATEHPUR	1	173	188	0.0	0.9	-0.9
5	765 kV	GAYA-BALIA	1	0	680	0.0	11.2	-11.2
6	400 kV	PUSAULI-VARANASI	1	0	68	0.0	0.8	-0.8
7	400 kV	PUSAULI -ALLAHABAD	1	10	54	0.0	0.4	-0.4
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	576	0.0	8.1	-8.1
9	400 kV	PATNA-BALIA	2	0	534	0.0	9.3	-9.3
10	400 kV	NAUBATPUR-BALIA	2	0	563	0.0	9.8	-9.8
11	400 kV	BIHARSHARIFF-BALIA	2	29	348	0.0	4.8	-4.8
12	400 kV	MOTIHARI-GORAKHPUR	2	18	373	0.0	4.8	-4.8
13	400 kV	BIHARSHARIFF-VARANASI	2	253	94	0.9	0.0	0.9
14	220 kV	SAHUPURI-KARAMNASA	1	28	148	0.0	1.9	-1.9
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	25	0	0.3	0.0	0.3
17	132 kV	KARMANASA-SAHUPURI	1	0	0	0.5	0.0	0.5
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	9.7	88.9	-79.3
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	629	0	21.4	0.0	21.4
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1829	0	28.2	0.0	28.2
3	765 kV	JHARSUGUDA-DURG	2	0	314	0.0	1.3	-1.3
4	400 kV	JHARSUGUDA-RAIGARH	4	0	312	1.5	0.0	1.5
5	400 kV	RANCHI-SIPAT	2	410	50	4.6	0.0	4.6
6	220 kV	BUDHIPADAR-RAIGARH	1	72	70	0.0	0.1	-0.1
7	220 kV	BUDHIPADAR-KORBA	2	208	0	2.8	0.0	2.8
					ER-WR	58.5	1.5	57.0
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	726	0	16.0	0.0	16.0
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	2479	0.0	35.7	-35.7
3	765 kV	ANGUL-SRIKAKULAM	2	0	2803	0.0	44.3	-44.3
4	400 kV	TALCHER-I/C	2	915	644	8.9	0.0	8.9
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
					ER-SR	16.0	80.0	-64.0
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	514	0.0	8.2	-8.2
2	400 kV	ALIPURDUAR-BONGAIGAON	2	80	385	0.0	3.8	-3.8
3	220 kV	ALIPURDUAR-SALAKATI	2	0	112	0.0	1.7	-1.7
					ER-NER	0.0	13.7	-13.7
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	852	0.0	17.1	-17.1
					NER-NR	0.0	17.1	-17.1
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	4528	0.0	66.2	-66.2
2	HVDC	VINDHYACHAL B/B	-	445	0	12.2	0.0	12.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1818	0.0	16.4	-16.4
4	765 kV	GWALIOR-AGRA	2	156	1966	0.0	26.7	-26.7
5	765 kV	GWALIOR-PHAGI	2	182	1188	0.0	16.3	-16.3
6	765 kV	JABALPUR-ORAI	2	0	881	0.0	26.2	-26.2
7	765 kV	GWALIOR-ORAI	1	442	0	7.8	0.0	7.8
8	765 kV	SATNA-ORAI	1	0	998	0.0	19.9	-19.9
9	765 kV	BANASKANTHA-CHITORGARH	2	1216	45	16.9	0.0	16.9
10	765 kV	VINDHYACHAL-VARANASI	2	0	3779	0.0	73.5	-73.5
11	400 kV	ZERDA-KANKROLI	1	330	0	4.9	0.0	4.9
12	400 kV	ZERDA -BHINMAL	1	668	0	9.7	0.0	9.7
13	400 kV	VINDHYACHAL -RIHAND	1	965	0	22.0	0.0	22.0
14	400 kV	RAPP-SHUJALPUR	2	462	349	0.1	0.0	0.1
15	220 kV	BHANPURA-RANPUR	1	0	1	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.0	-2.0
17	220 kV	MEHGAON-AURAIYA	1	113	1	0.5	0.0	0.5
18	220 kV	MALANPUR-AURAIYA	1	74	19	1.2	0.0	1.2
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	75.1	247.1	-172.0
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	984	0	24.0	0.0	24.0
2	HVDC	RAIGARH-PUGALUR	2	2877	0	65.2	0.0	65.2
3	765 kV	SOLAPUR-RAICHUR	2	1501	1842	2.6	0.0	2.6
4	765 kV	WARDHA-NIZAMABAD	2	0	2826	0.0	34.2	-34.2
5	400 kV	KOLHAPUR-KUDGI	2	1883	0	30.4	0.0	30.4
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	1	108	1.8	0.0	1.8
					WR-SR	124.0	34.2	89.8

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)	513	0	463	11.1
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	913	0	743	17.8
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	201	110	153	3.7
	NER	132kV GELEPHU-SALAKATI	-13	-2	-8	-0.2
	NER	132kV MOTANGA-RANGIA	-50	-31	-38	-0.9
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-70	0	-40	-1.0
	ER	NEPAL IMPORT (FROM BIHAR)	-27	0	-6	-0.2
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	368	127	268	6.4
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-884	-763	-819	-19.7
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-82	0	-79	-1.9