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: 17th 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 16.07.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 16-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 16th 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:** **17-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)	59898	50294	39942	24075	3277	177486
Peak Shortage (MW)	0	0	0	1448	0	1448
Energy Met (MU)	1457	1117	945	570	66	4155
Hydro Gen (MU)	365	62	140	103	30	699
Wind Gen (MU)	27	141	239	-	-	408
Solar Gen (MU)*	91.05	39.76	84.51	4.41	0.78	221
Energy Shortage (MU)	1.85	0.00	0.00	10.34	0.00	12.19
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	66355	50305	44428	25354	3365	180324
Time Of Maximum Demand Met (From NLDC SCADA)	00:01	19:51	08:57	22:55	20:39	20:29

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	0.040	0.00	2.25	4.32	6.56	76.32	17.12

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	12068	0	256.0	172.5	-3.4	45	0.00
	Haryana	10169	0	208.6	151.8	-0.5	336	0.00
	Rajasthan	10039	0	219.8	51.5	-2.9	726	0.25
	Delhi	6681	0	124.5	114.7	-2.3	221	0.00
	UP	24886	0	506.2	226.9	-0.9	542	0.00
	Uttarakhand	2334	0	51.0	28.7	0.7	140	1.41
	HP	1617	0	33.9	-5.8	-0.3	55	0.00
	J&K(UT) & Ladakh(UT)	2145	0	50.2	27.8	-3.0	248	0.19
	Chandigarh	339	0	6.7	6.8	-0.1	18	0.00
WR	Chhattisgarh	3924	0	95.2	40.9	0.8	244	0.00
	Gujarat	14641	0	322.1	152.7	-6.7	556	0.00
	MP	10019	0	218.2	106.2	0.0	604	0.00
	Maharashtra	19863	0	430.4	127.1	0.8	769	0.00
	Goa	573	0	11.1	11.6	-0.5	47	0.00
	DNHDDPDCL	1094	0	25.3	25.3	0.0	72	0.00
	AMNSIL	863	0	14.7	9.7	-1.8	76	0.00
SR	Andhra Pradesh	8984	0	191.3	31.9	-1.1	864	0.00
	Telangana	9614	0	174.6	80.3	1.5	887	0.00
	Karnataka	8646	0	159.3	21.9	1.9	1447	0.00
	Kerala	3305	0	68.3	35.5	-0.3	323	0.00
	Tamil Nadu	15120	0	341.1	129.1	0.3	1113	0.00
	Puducherry	427	0	10.0	9.3	0.0	32	0.00
ER	Bihar	6311	1698	136.4	122.8	2.5	412	9.09
	DVC	3432	0	77.6	-39.5	0.0	283	0.00
	Jharkhand	1661	0	33.0	25.6	0.2	297	1.25
	Odisha	5704	0	129.1	64.5	-0.3	405	0.00
	West Bengal	9004	0	192.9	78.5	0.2	536	0.00
	Sikkim	82	0	1.5	1.4	0.1	18	0.00
NER	Arunachal Pradesh	153	0	2.8	2.7	-0.2	28	0.00
	Assam	2231	0	44.2	37.2	0.3	123	0.00
	Manipur	206	0	2.9	2.9	0.0	20	0.00
	Meghalaya	317	0	5.9	0.8	0.0	39	0.00
	Mizoram	100	0	1.8	0.9	0.0	49	0.00
	Nagaland	158	0	3.0	2.7	-0.1	8	0.00
	Tripura	308	0	5.7	6.3	0.2	56	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	26.5	6.7	-23.5
Day Peak (MW)	1297.0	291.1	-1015.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	280.8	-185.8	-45.1	-46.7	-3.3	0.0
Actual(MU)	263.2	-195.9	-34.6	-32.6	-1.0	-0.9
O/D/U/D(MU)	-17.6	-10.1	10.5	14.0	2.3	-0.9

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3675	16036	7348	3625	309	30992	41
State Sector	8340	18404	13375	3710	251	44079	59
Total	12015	34439	20723	7335	560	75071	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	710	1062	389	532	14	2707	62
Lignite	27	8	59	0	0	94	2
Hydro	367	62	140	103	30	702	16
Nuclear	29	20	58	0	0	108	2
Gas, Naptha & Diesel	15	3	8	0	28	54	1
RES (Wind, Solar, Biomass & Others)	137	181	362	4	1	685	16
Total	1287	1336	1015	639	72	4350	100

Share of RES in total generation (%)	10.66	13.57	35.63	0.69	1.08	15.76
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	41.50	19.73	55.11	16.77	42.36	34.37

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.053
Based on State Max Demands	1.093

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: 17-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	27.3	-27.3
2	HVDC	PUSAULI B/B	-	0	245	0.0	1.3	-1.3
3	765 kV	GAYA-VARANASI	2	960	0	10.9	0.0	10.9
4	765 kV	SASARAM-FATEHPUR	1	242	144	0.5	0.0	0.5
5	765 kV	GAYA-BALIA	1	0	662	0.0	10.9	-10.9
6	400 kV	PUSAULI-VARANASI	1	0	168	0.0	1.1	-1.1
7	400 kV	PUSAULI -ALLAHABAD	1	24	90	0.0	0.1	-0.1
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	50	686	0.0	8.7	-8.7
9	400 kV	PATNA-BALIA	2	0	518	0.0	8.4	-8.4
10	400 kV	NAUBATPUR-BALIA	2	0	545	0.0	8.5	-8.5
11	400 kV	BIHARSHARIFF-BALIA	2	132	363	0.0	3.6	-3.6
12	400 kV	MOTIHARI-GORAKHPUR	2	47	409	0.0	4.8	-4.8
13	400 kV	BIHARSHARIFF-VARANASI	2	314	115	1.9	0.0	1.9
14	220 kV	SAHUPURI-KARAMNASA	1	17	162	0.0	1.8	-1.8
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.1	0.0	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	13.8	76.4	-62.5
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	629	0	31.3	0.0	31.3
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1692	0	27.3	0.0	27.3
3	765 kV	JHARSUGUDA-DURG	2	0	314	0.5	0.0	0.5
4	400 kV	JHARSUGUDA-RAIGARH	4	0	312	3.7	0.0	3.7
5	400 kV	RANCHI-SIPAT	2	424	0	5.7	0.0	5.7
6	220 kV	BUDHIPADAR-RAIGARH	1	48	85	0.0	0.4	-0.4
7	220 kV	BUDHIPADAR-KORBA	2	196	0	2.7	0.0	2.7
					ER-WR	71.2	0.4	70.8
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	726	0	15.2	0.0	15.2
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	2479	0.0	36.8	-36.8
3	765 kV	ANGUL-SRIKAKULAM	2	0	2882	0.0	49.1	-49.1
4	400 kV	TALCHER-I/C	2	729	628	8.2	0.0	8.2
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
					ER-SR	15.2	85.9	-70.8
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	497	0.0	7.9	-7.9
2	400 kV	ALIPURDUAR-BONGAIGAON	2	183	515	0.0	5.4	-5.4
3	220 kV	ALIPURDUAR-SALAKATI	2	0	119	0.0	2.0	-2.0
					ER-NER	0.0	15.3	-15.3
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	854	0.0	17.7	-17.7
					NER-NR	0.0	17.7	-17.7
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	4527	0.0	68.4	-68.4
2	HVDC	VINDHYACHAL B/B	-	443	0	12.1	0.0	12.1
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1819	0.0	21.7	-21.7
4	765 kV	GWALIOR-AGRA	2	0	1511	0.0	24.7	-24.7
5	765 kV	GWALIOR-PHAGI	2	532	1038	0.0	9.9	-9.9
6	765 kV	JABALPUR-ORAI	2	0	741	0.0	23.3	-23.3
7	765 kV	GWALIOR-ORAI	1	517	0	7.3	0.0	7.3
8	765 kV	SATNA-ORAI	1	0	917	0.0	19.0	-19.0
9	765 kV	BANASKANTHA-CHITORGARH	2	746	203	8.3	0.0	8.3
10	765 kV	VINDHYACHAL-VARANASI	2	0	3804	0.0	74.8	-74.8
11	400 kV	ZERDA-KANKROLI	1	203	0	3.2	0.0	3.2
12	400 kV	ZERDA -BHINMAL	1	396	0	6.8	0.0	6.8
13	400 kV	VINDHYACHAL -RIHAND	1	954	0	21.7	0.0	21.7
14	400 kV	RAPP-SHUJALPUR	2	295	268	0.9	0.0	0.9
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.5	-2.5
17	220 kV	MEHGAON-AURAIYA	1	85	0	0.5	0.0	0.5
18	220 kV	MALANPUR-AURAIYA	1	57	11	1.0	0.0	1.0
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	61.7	244.3	-182.6
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	984	0	24.0	0.0	24.0
2	HVDC	RAIGARH-PUGALUR	2	2875	0	57.6	0.0	57.6
3	765 kV	SOLAPUR-RAICHUR	2	635	1645	0.0	8.2	-8.2
4	765 kV	WARDHA-NIZAMABAD	2	0	2838	0.0	45.5	-45.5
5	400 kV	KOLHAPUR-KUDGI	2	1476	0	27.6	0.0	27.6
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	114	1.9	0.0	1.9
					WR-SR	111.1	53.7	57.4

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)	414	0	366	8.8
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	659	0	511	12.3
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	198	0	165	4.0
	NER	132kV GELEPHU-SALAKATI	-14	-1	-8	-0.2
	NER	132kV MOTANGA-RANGIA	-49	-21	-39	-0.9
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-78	0	-55	-1.3
	ER	NEPAL IMPORT (FROM BIHAR)	-20	0	-7	-0.2
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	389	187	341	8.2
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-935	-880	-907	-21.8
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-80	0	-71	-1.7