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: 05th 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 04.07.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 04-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 04th 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: 05-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)	65101	52006	42220	24544	3101	186972
Peak Shortage (MW)	1510	0	0	839	67	2416
Energy Met (MU)	1511	1209	967	539	60	4285
Hydro Gen (MU)	359	24	71	122	32	608
Wind Gen (MU)	8	76	235	-	-	319
Solar Gen (MU)*	87.04	36.68	80.93	5.29	0.64	211
Energy Shortage (MU)	11.28	0.00	0.00	4.49	1.00	16.77
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	69724	53256	45801	25015	3261	188563
Time Of Maximum Demand Met (From NLDC SCADA)	23:36	11:23	10:52	20:33	19:09	19:44

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	0.099	1.44	6.91	12.23	20.58	69.54	9.88

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	13153	0	293.5	181.5	-1.7	41	0.00
	Haryana	11198	0	227.2	156.1	1.4	326	1.11
	Rajasthan	10915	9	238.0	62.8	0.4	459	2.46
	Delhi	6580	0	130.2	118.5	-0.1	335	0.00
	UP	23066	1224	481.9	225.6	0.8	499	7.02
	Uttarakhand	2342	0	49.0	26.6	1.1	154	0.69
	HP	1556	0	32.9	-3.9	-0.5	38	0.00
	J&K(UT) & Ladakh(UT)	2160	0	51.2	30.9	-3.9	242	0.00
	Chandigarh	379	0	7.4	7.2	0.2	40	0.00
WR	Chhattisgarh	4207	0	97.0	41.6	-1.6	236	0.00
	Gujarat	16466	0	355.6	201.6	0.4	1045	0.00
	MP	9551	0	209.3	101.1	0.0	419	0.00
	Maharashtra	22540	0	488.3	165.1	-2.1	866	0.00
	Goa	579	0	11.9	11.9	0.0	30	0.00
	DNHDDPDCL	1193	0	27.4	27.1	0.3	61	0.00
	AMNSIL	888	0	19.3	10.4	-0.1	284	0.00
SR	Andhra Pradesh	9008	0	192.8	20.8	0.4	711	0.00
	Telangana	8469	0	164.7	76.9	2.5	728	0.00
	Karnataka	10402	0	194.6	56.7	-0.8	542	0.00
	Kerala	3328	0	64.5	40.3	-0.3	173	0.00
	Tamil Nadu	15972	0	340.7	119.8	-2.3	677	0.00
	Puducherry	469	0	9.5	9.3	0.1	78	0.00
ER	Bihar	6031	0	126.8	112.5	2.8	347	3.57
	DVC	3449	0	75.0	-45.5	-0.2	278	0.00
	Jharkhand	1631	0	32.8	25.2	-0.7	166	0.92
	Odisha	5377	0	114.3	52.1	1.0	385	0.00
	West Bengal	9304	0	188.2	63.8	0.5	308	0.00
	Sikkim	91	0	1.4	1.5	-0.1	17	0.00
NER	Arunachal Pradesh	137	0	2.4	2.1	-0.1	42	0.00
	Assam	2071	0	39.9	31.0	0.2	180	0.12
	Manipur	175	0	2.6	2.6	-0.1	28	0.00
	Meghalaya	276	52	5.4	0.1	0.3	61	0.86
	Mizoram	98	0	1.5	1.4	-0.3	12	0.00
	Nagaland	145	0	2.6	2.2	-0.1	11	0.00
	Tripura	315	0	5.6	5.8	0.4	139	0.02

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	39.2	7.3	-24.9
Day Peak (MW)	1887.0	379.6	-1078.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	283.6	-127.3	-15.4	-139.7	-5.1	-3.9
Actual(MU)	296.5	-114.7	-50.5	-132.3	-5.9	-6.9
O/D/U/D(MU)	12.9	12.6	-35.2	7.4	-0.8	-3.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3715	13926	7558	2305	822	28325	44
State Sector	8265	16406	8780	2122	211	35783	56
Total	11980	30331	16338	4427	1033	64109	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	734	1161	486	582	17	2979	67
Lignite	28	11	58	0	0	97	2
Hydro	361	24	71	122	32	611	14
Nuclear	29	33	67	0	0	129	3
Gas, Naptha & Diesel	17	6	9	0	24	56	1
RES (Wind, Solar, Biomass & Others)	111	113	355	5	1	584	13
Total	1279	1349	1046	710	73	4456	100

Share of RES in total generation (%)	8.66	8.37	33.93	0.75	0.87	13.11
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	39.17	12.60	47.15	18.00	44.42	29.71

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.045
Based on State Max Demands	1.079

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: 05-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	1.3	-1.3
3	765 kV	GAYA-VARANASI	2	140	405	0.0	3.1	-3.1
4	765 kV	SASARAM-FATEHPUR	1	0	369	0.0	6.5	-6.5
5	765 kV	GAYA-BALIA	1	0	757	0.0	12.8	-12.8
6	400 kV	PUSAULI-VARANASI	1	44	44	0.1	0.0	0.1
7	400 kV	PUSAULI -ALLAHABAD	1	0	103	0.0	1.2	-1.2
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	867	0.0	16.8	-16.8
9	400 kV	PATNA-BALIA	2	0	600	0.0	12.5	-12.5
10	400 kV	NAUBATPUR-BALIA	2	0	636	0.0	13.0	-13.0
11	400 kV	BIHARSHARIFF-BALIA	2	336	582	0.0	8.0	-8.0
12	400 kV	MOTIHARI-GORAKHPUR	2	0	482	0.0	8.7	-8.7
13	400 kV	BIHARSHARIFF-VARANASI	2	0	290	0.0	3.9	-3.9
14	220 kV	SAHUPURI-KARAMNASA	1	0	154	0.0	2.7	-2.7
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	0	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	0.4	115.0	-114.5
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	629	0	13.8	0.0	13.8
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1451	114	20.9	0.0	20.9
3	765 kV	JHARSUGUDA-DURG	2	0	314	0.0	1.0	-1.0
4	400 kV	JHARSUGUDA-RAIGARH	4	0	312	0.0	2.6	-2.6
5	400 kV	RANCHI-SIPAT	2	273	132	2.4	0.0	2.4
6	220 kV	BUDHIPADAR-RAIGARH	1	0	94	0.0	1.1	-1.1
7	220 kV	BUDHIPADAR-KORBA	2	133	0	1.9	0.0	1.9
					ER-WR	39.1	4.8	34.3
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	500	392	3.6	0.0	3.6
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1996	0.0	38.4	-38.4
3	765 kV	ANGUL-SRIKAKULAM	2	0	2802	0.0	45.2	-45.2
4	400 kV	TALCHER-I/C	2	722	168	6.4	0.0	6.4
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
					ER-SR	3.6	83.7	-80.0
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	494	0.0	7.5	-7.5
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	549	0.0	7.2	-7.2
3	220 kV	ALIPURDUAR-SALAKATI	2	0	143	0.0	2.2	-2.2
					ER-NER	0.0	17.0	-17.0
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	1006	0.0	24.1	-24.1
					NER-NR	0.0	24.1	-24.1
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2539	0.0	39.3	-39.3
2	HVDC	VINDHYACHAL B/B	-	270	0	7.3	0.0	7.3
3	HVDC	MUNDRA-MOHINDERGARH	2	0	713	0.0	14.6	-14.6
4	765 kV	GWALIOR-AGRA	2	60	2421	0.0	34.2	-34.2
5	765 kV	GWALIOR-PHAGI	2	0	1789	0.0	27.1	-27.1
6	765 kV	JABALPUR-ORAI	2	0	1143	0.0	30.4	-30.4
7	765 kV	GWALIOR-ORAI	1	703	0	12.2	0.0	12.2
8	765 kV	SATNA-ORAI	1	0	1198	0.0	21.8	-21.8
9	765 kV	BANASKANTHA-CHITORGARH	2	1626	72	19.3	0.1	19.2
10	765 kV	VINDHYACHAL-VARANASI	2	0	3534	0.0	61.7	-61.7
11	400 kV	ZERDA-KANKROLI	1	335	57	3.7	0.0	3.7
12	400 kV	ZERDA -BHINMAL	1	523	130	5.7	0.0	5.7
13	400 kV	VINDHYACHAL -RIHAND	1	955	0	21.9	0.0	21.9
14	400 kV	RAPP-SHUJALPUR	2	0	435	0.0	0.6	-0.6
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	108	0	0.4	0.0	0.4
18	220 kV	MALANPUR-AURAIYA	1	76	21	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	71.5	232.2	-160.6
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	987	0	24.0	0.0	24.0
2	HVDC	RAIGARH-PUGALUR	2	2872	0	60.2	0.0	60.2
3	765 kV	SOLAPUR-RAICHUR	2	986	1831	7.6	4.7	2.9
4	765 kV	WARDHA-NIZAMABAD	2	0	3045	0.0	37.2	-37.2
5	400 kV	KOLHAPUR-KUDGI	2	1553	0	28.6	0.0	28.6
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	110	2.0	0.0	2.0
					WR-SR	122.4	41.9	80.5

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)	580	0	540	13.0
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1106	0	969	23.3
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	198	0	177	4.3
	NER	132kV GELEPHU-SALAKATI	23	0	18	0.4
	NER	132kV MOTANGA-RANGIA	48	0	35	0.8
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-69	0	-40	-1.0
	ER	NEPAL IMPORT (FROM BIHAR)	23	3	-7	-0.2
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	426	235	350	8.4
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-911	-872	-884	-21.2
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-167	0	-155	-3.7