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: 28th Apr 2021

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 27.04.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 27-अप्रैल-2021 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 27th April 2021, 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:** **28-Apr-2021**

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)	49428	50329	43829	23902	2861	170349
Peak Shortage (MW)	350	0	0	0	57	407
Energy Met (MU)	1053	1287	1063	514	53	3970
Hydro Gen (MU)	141	41	69	45	9	306
Wind Gen (MU)	6	45	40	-	-	91
Solar Gen (MU)*	51.68	39.22	104.83	5.93	0.22	202
Energy Shortage (MU)	6.85	0.00	0.00	0.00	1.06	7.91
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	51097	58466	49784	24651	3097	173488
Time Of Maximum Demand Met (From NLDC SCADA)	22:18	14:59	15:20	22:47	18:29	11:34

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	0.032	0.00	0.00	4.87	4.87	78.38	16.75

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	6022	0	130.7	62.4	0.1	131	0.00
	Haryana	7469	50	145.0	110.7	0.8	268	0.42
	Rajasthan	10938	0	221.6	60.4	0.0	198	0.00
	Delhi	3587	0	70.8	55.6	-1.5	32	0.03
	UP	19501	0	364.1	145.5	-3.1	456	0.00
	Uttarakhand	1757	0	37.7	18.9	0.9	178	0.00
	HP	1401	0	28.8	12.7	-0.5	204	0.00
	J&K(UT) & Ladakh(UT)	2657	350	50.8	40.4	-0.4	249	6.40
	Chandigarh	193	0	3.8	3.8	0.1	22	0.00
WR	Chhattisgarh	4225	0	101.4	38.8	-0.3	260	0.00
	Gujarat	18252	0	384.4	117.2	4.3	1383	0.00
	MP	10396	0	229.7	141.5	-1.6	442	0.00
	Maharashtra	24005	0	517.7	170.5	-3.6	550	0.00
	Goa	568	0	12.1	11.9	-0.3	41	0.00
	DD	305	0	6.8	6.8	0.0	20	0.00
	DNH	739	0	17.3	17.5	-0.2	35	0.00
	AMNSIL	786	0	18.0	1.2	0.2	270	0.00
SR	Andhra Pradesh	10085	0	204.9	97.2	1.0	549	0.00
	Telangana	9136	0	182.7	56.5	0.2	386	0.00
	Karnataka	11184	0	223.1	62.4	-0.1	866	0.00
	Kerala	3863	0	81.9	60.9	0.5	277	0.00
	Tamil Nadu	15878	0	360.9	243.8	-0.7	424	0.00
	Puducherry	433	0	9.2	9.3	-0.1	30	0.00
ER	Bihar	5720	0	116.4	102.7	3.6	396	0.00
	DVC	3168	0	67.6	-46.3	1.7	451	0.00
	Jharkhand	1652	0	30.1	27.2	-2.3	156	0.00
	Odisha	5461	0	108.0	38.8	0.0	393	0.00
	West Bengal	9316	0	190.9	51.4	0.7	468	0.00
	Sikkim	69	0	1.0	1.6	-0.6	240	0.00
NER	Arunachal Pradesh	139	2	2.0	2.2	-0.3	24	0.01
	Assam	1825	0	34.0	29.9	0.4	133	0.00
	Manipur	208	3	2.6	2.5	0.1	26	0.01
	Meghalaya	264	50	4.5	3.7	0.1	61	1.02
	Mizoram	110	2	1.7	1.7	0.0	18	0.01
	Nagaland	152	4	2.4	2.3	0.1	28	0.01
	Tripura	300	0	5.6	6.1	0.8	126	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	8.0	-18.1	-20.9
Day Peak (MW)	415.0	-856.7	-910.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	217.6	-305.7	145.6	-71.0	13.5	0.0
Actual(MU)	204.4	-309.0	151.1	-67.1	16.2	-4.4
O/D/U/D(MU)	-13.2	-3.3	5.5	4.0	2.7	-4.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5087	14193	7772	548	968	28568	43
State Sector	11750	13613	6765	6095	11	38234	57
Total	16837	27806	14537	6643	979	66802	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	555	1397	571	566	13	3102	76
Lignite	20	12	46	0	0	77	2
Hydro	141	41	69	45	9	306	8
Nuclear	31	32	59	0	0	122	3
Gas, Naptha & Diesel	36	53	11	0	20	120	3
RES (Wind, Solar, Biomass & Others)	85	84	173	6	0	348	9
Total	868	1618	928	618	43	4075	100

Share of RES in total generation (%)	9.79	5.19	18.67	0.95	0.51	8.55
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	29.57	9.71	32.43	8.30	22.52	19.04

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.078
Based on State Max Demands	1.105

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: 28-Apr-2021

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	0	0.0	0.0	0.0
2	HVDC	PUSAULI B/B	-	0	247	0.0	5.7	-5.7
3	765 kV	GAYA-VARANASI	2	0	549	0.0	7.1	-7.1
4	765 kV	SASARAM-FATEHPUR	1	67	162	0.0	0.8	-0.8
5	765 kV	GAYA-BALIA	1	0	456	0.0	7.1	-7.1
6	400 kV	PUSAULI-VARANASI	1	0	251	0.0	5.0	-5.0
7	400 kV	PUSAULI -ALLAHABAD	1	0	65	0.0	0.6	-0.6
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	255	372	0.0	3.2	-3.2
9	400 kV	PATNA-BALIA	4	0	812	0.0	12.8	-12.8
10	400 kV	BIHARSHARIFF-BALIA	2	135	173	0.0	0.6	-0.6
11	400 kV	MOTIHARI-GORAKHPUR	2	42	320	0.0	3.9	-3.9
12	400 kV	BIHARSHARIFF-VARANASI	2	87	184	0.0	1.4	-1.4
13	220 kV	PUSAULI-SAHUPURI	1	34	100	0.0	1.2	-1.2
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	20	0	0.4	0.0	0.4
16	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0
17	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	0.4	49.4	-49.0
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1176	0	15.6	0.0	15.6
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1472	0	23.7	0.0	23.7
3	765 kV	JHARSUGUDA-DURG	2	161	144	0.1	0.0	0.1
4	400 kV	JHARSUGUDA-RAIGARH	4	262	108	1.6	0.0	1.6
5	400 kV	RANCHI-SIPAT	2	405	0	5.7	0.0	5.7
6	220 kV	BUDHIPADAR-RAIGARH	1	0	128	0.0	2.1	-2.1
7	220 kV	BUDHIPADAR-KORBA	2	152	0	2.4	0.0	2.4
					ER-WR	49.2	2.1	47.1
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	527	0.0	11.3	-11.3
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1982	0.0	47.9	-47.9
3	765 kV	ANGUL-SRIKAKULAM	2	0	2647	0.0	50.2	-50.2
4	400 kV	TALCHER-I/C	2	0	292	0.0	4.4	-4.4
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	109.4	-109.4
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	67	244	0.0	1.8	-1.8
2	400 kV	ALIPURDUAR-BONGAIGAON	2	106	348	0.0	2.7	-2.7
3	220 kV	ALIPURDUAR-SALAKATI	2	14	67	0.0	0.7	-0.7
					ER-NER	0.0	5.1	-5.1
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	492	0	11.7	0.0	11.7
					NER-NR	11.7	0.0	11.7
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	0	0.0	41.5	-41.5
2	HVDC	VINDHYACHAL B/B	-	167	256	3.0	0.0	3.0
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1920	0.0	37.9	-37.9
4	765 kV	GWALIOR-AGRA	2	0	2894	0.0	53.8	-53.8
5	765 kV	PHAGI-GWALIOR	2	0	1750	0.0	32.0	-32.0
6	765 kV	JABALPUR-ORAI	2	0	1005	0.0	37.2	-37.2
7	765 kV	GWALIOR-ORAI	1	744	0	13.8	0.0	13.8
8	765 kV	SATNA-ORAI	1	0	1537	0.0	32.4	-32.4
9	765 kV	CHITORGARH-BANASKANTHA	2	1371	4	18.0	0.0	18.0
10	400 kV	ZERDA-KANKROLI	1	330	0	4.1	0.0	4.1
11	400 kV	ZERDA -BHINMAL	1	453	86	4.3	0.0	4.3
12	400 kV	VINDHYACHAL -RIHAND	1	975	0	22.7	0.0	22.7
13	400 kV	RAPP-SHUJALPUR	2	45	414	0.0	5.1	-5.1
14	220 kV	BHANPURA-RANPUR	1	0	96	0.0	1.3	-1.3
15	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.0	-1.0
16	220 kV	MEHGAON-AURAIYA	1	72	21	0.2	0.4	-0.2
17	220 kV	MALANPUR-AURAIYA	1	40	40	0.4	0.1	0.4
18	132 kV	GWALIOR-SAWAI MADHOPUR	1	0	0	0.0	0.0	0.0
19	132 kV	RAJGHAT-LALITPUR	2	0	0	0.0	0.0	0.0
					WR-NR	66.5	242.5	-175.9
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	715	0.0	17.0	-17.0
2	HVDC	RAIGARH-PUGALUR	2	0	2505	0.0	40.1	-40.1
3	765 kV	SOLAPUR-RAICHUR	2	715	1570	1.6	16.1	-14.4
4	765 kV	WARDHA-NIZAMABAD	2	117	1678	0.1	21.9	-21.8
5	400 kV	KOLHAPUR-KUDGI	2	648	139	6.1	0.2	6.0
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	89	1.8	0.0	1.8
					WR-SR	9.6	95.2	-85.6

INTERNATIONAL EXCHANGES

State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange (MU)
BHUTAN	ER	400kV MANGDECHHU-ALIPURDUAR 1&2 i.e. ALIPURDUAR RECEIPT (from MANGDECHU HEP 4*180MW)	265	193	195	4.7
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	135	104	120	2.9
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	27	0	19	0.5
	NER	132KV-GEYLEGPHU - SALAKATI	-35	-3	20	0.5
	NER	132kV Motanga-Rangia	24	1	-12	-0.3
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-79	0	-71	-1.7
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-420	-316	-370	-8.9
	ER	132KV-BIHAR - NEPAL	-358	-274	-315	-7.6
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-744	-644	-720	-17.3
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	83	0	-75	-1.8
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	83	0	-75	-1.8