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: 14th 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 13.04.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 13-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 13th 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:** **14-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)	51786	52456	43707	23065	2475	173489
Peak Shortage (MW)	350	0	0	0	49	399
Energy Met (MU)	1049	1326	1117	508	47	4047
Hydro Gen (MU)	105	37	63	39	7	251
Wind Gen (MU)	10	47	24	-	-	81
Solar Gen (MU)*	48.09	37.32	95.01	5.31	0.19	186
Energy Shortage (MU)	9.99	0.00	0.00	0.00	0.78	10.77
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	52459	58141	52208	23707	2764	176751
Time Of Maximum Demand Met (From NLDC SCADA)	19:40	11:22	11:49	22:46	18:38	10:52

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	0.024	0.00	0.00	3.59	3.59	82.25	14.17

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	6103	0	125.6	55.9	-0.5	210	0.00
	Haryana	7255	0	137.6	89.5	0.9	254	1.11
	Rajasthan	10554	0	222.8	50.5	1.6	354	0.25
	Delhi	4064	0	85.8	70.6	-1.6	71	0.00
	UP	19646	0	354.5	118.3	-0.2	705	0.00
	Uttarakhand	1917	0	36.1	25.9	0.7	181	2.23
	HP	1498	0	29.9	21.9	1.0	137	0.00
	J&K(UT) & Ladakh(UT)	2482	350	52.7	43.8	1.7	273	6.40
	Chandigarh	187	0	3.8	3.8	0.0	32	0.00
WR	Chhattisgarh	4649	0	111.2	49.4	-0.4	183	0.00
	Gujarat	19007	0	402.9	117.0	0.6	959	0.00
	MP	11050	0	238.7	148.1	-0.9	378	0.00
	Maharashtra	23766	0	519.4	176.0	-5.2	832	0.00
	Goa	498	0	11.3	11.4	-0.6	36	0.00
	DD	337	0	7.5	7.3	0.2	21	0.00
	DNH	822	0	19.1	19.2	-0.1	33	0.00
	AMNSIL	800	0	15.9	1.2	0.0	232	0.00
SR	Andhra Pradesh	10286	0	210.9	103.7	0.5	654	0.00
	Telangana	10815	0	219.9	97.3	0.5	557	0.00
	Karnataka	12487	0	242.6	79.8	-0.8	529	0.00
	Kerala	3688	0	78.4	55.8	0.6	564	0.00
	Tamil Nadu	15828	0	355.9	227.5	-0.4	545	0.00
	Puducherry	423	0	9.3	9.3	0.0	32	0.00
ER	Bihar	5760	0	111.7	101.1	2.3	244	0.00
	DVC	3287	0	69.9	-43.1	2.0	458	0.00
	Jharkhand	1701	0	30.9	24.6	-1.8	118	0.00
	Odisha	4837	0	99.2	35.3	-0.8	268	0.00
	West Bengal	9222	0	195.4	54.5	1.0	308	0.00
	Sikkim	69	0	0.9	1.6	-0.6	9	0.00
NER	Arunachal Pradesh	127	2	2.0	2.0	0.0	45	0.01
	Assam	1530	21	29.5	24.4	0.9	196	0.00
	Manipur	184	2	2.3	2.4	-0.2	25	0.01
	Meghalaya	281	48	4.7	3.8	-0.1	112	0.74
	Mizoram	107	5	1.7	1.6	-0.1	17	0.01
	Nagaland	124	2	1.9	2.1	-0.2	24	0.01
	Tripura	298	2	5.1	4.1	0.5	124	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	4.2	-17.1	-23.2
Day Peak (MW)	243.0	-820.0	-1031.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	174.9	-302.6	176.0	-61.4	13.0	0.0
Actual(MU)	161.7	-309.1	174.8	-53.0	15.1	-10.5
O/D/U/D(MU)	-13.2	-6.5	-1.1	8.4	2.1	-10.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4237	12518	6302	1673	1460	26190	44
State Sector	12542	12129	4775	4373	11	33830	56
Total	16779	24647	11077	6046	1471	60020	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	629	1445	653	551	15	3293	80
Lignite	23	9	36	0	0	68	2
Hydro	105	37	63	39	7	251	6
Nuclear	31	23	43	0	0	97	2
Gas, Naptha & Diesel	32	48	12	0	15	107	3
RES (Wind, Solar, Biomass & Others)	78	85	152	5	0	321	8
Total	898	1648	957	595	38	4136	100

Share of RES in total generation (%)	8.74	5.16	15.84	0.90	0.49	7.75
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	23.86	8.81	26.83	7.46	19.93	16.15

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.071
Based on State Max Demands	1.107

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: 14-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	248	0.0	6.0	-6.0
3	765 kV	GAYA-VARANASI	2	58	284	0.0	3.4	-3.4
4	765 kV	SASARAM-FATEHPUR	1	130	128	0.0	0.2	-0.2
5	765 kV	GAYA-BALIA	1	0	333	0.0	5.4	-5.4
6	400 kV	PUSAULI-VARANASI	1	0	249	0.0	5.3	-5.3
7	400 kV	PUSAULI -ALLAHABAD	1	0	48	0.0	0.4	-0.4
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	318	283	0.0	1.8	-1.8
9	400 kV	PATNA-BALIA	4	0	690	0.0	11.7	-11.7
10	400 kV	BIHARSHARIFF-BALIA	2	164	161	0.0	0.1	-0.1
11	400 kV	MOTIHARI-GORAKHPUR	2	75	241	0.0	3.1	-3.1
12	400 kV	BIHARSHARIFF-VARANASI	2	125	95	0.0	0.0	0.0
13	220 kV	PUSAULI-SAHUPURI	1	35	89	0.0	1.0	-1.0
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	38.3	-37.9
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1428	0	25.0	0.0	25.0
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1269	0	16.3	0.0	16.3
3	765 kV	JHARSUGUDA-DURG	2	192	57	0.5	0.0	0.5
4	400 kV	JHARSUGUDA-RAIGARH	4	157	192	0.0	0.3	-0.3
5	400 kV	RANCHI-SIPAT	2	331	11	4.1	0.0	4.1
6	220 kV	BUDHIPADAR-RAIGARH	1	0	142	0.0	2.6	-2.6
7	220 kV	BUDHIPADAR-KORBA	2	164	0	2.9	0.0	2.9
					ER-WR	48.8	2.8	46.0
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	422	0.0	8.8	-8.8
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1987	0.0	43.2	-43.2
3	765 kV	ANGUL-SRIKAKULAM	2	0	2854	0.0	53.3	-53.3
4	400 kV	TALCHER-I/C	2	376	304	0.0	1.4	-1.4
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	105.3	-105.3
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	55	297	0.0	1.5	-1.5
2	400 kV	ALIPURDUAR-BONGAIGAON	2	109	413	0.0	1.9	-1.9
3	220 kV	ALIPURDUAR-SALAKATI	2	31	62	0.0	0.3	-0.3
					ER-NER	0.0	3.7	-3.7
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	498	0	11.8	0.0	11.8
					NER-NR	11.8	0.0	11.8
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1508	0.0	55.6	-55.6
2	HVDC	VINDHYACHAL B/B	-	272	0	5.1	0.0	5.1
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1458	0.0	34.8	-34.8
4	765 kV	GWALIOR-AGRA	2	0	2531	0.0	44.4	-44.4
5	765 kV	PHAGI-GWALIOR	2	0	1608	0.0	28.2	-28.2
6	765 kV	JABALPUR-ORAI	2	312	851	0.0	22.2	-22.2
7	765 kV	GWALIOR-ORAI	1	770	0	13.7	0.0	13.7
8	765 kV	SATNA-ORAI	1	0	1821	0.0	34.4	-34.4
9	765 kV	CHITORGARH-BANASKANTHA	2	1451	0	19.6	0.0	19.6
10	400 kV	ZERDA-KANKROLI	1	340	0	5.1	0.0	5.1
11	400 kV	ZERDA -BHINMAL	1	509	0	6.9	0.0	6.9
12	400 kV	VINDHYACHAL -RIHAND	1	971	0	22.7	0.0	22.7
13	400 kV	RAPP-SHUJALPUR	2	207	212	0.6	2.0	-1.3
14	220 kV	BHANPURA-RANPUR	1	33	48	0.1	0.3	-0.2
15	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.4	-0.4
16	220 kV	MEHGAON-AURAIYA	1	115	0	0.5	0.0	0.5
17	220 kV	MALANPUR-AURAIYA	1	76	5	1.2	0.0	1.2
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	75.6	222.2	-146.6
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1016	0.0	17.4	-17.4
2	HVDC	RAIGARH-PUGALUR	2	0	3018	0.0	36.4	-36.4
3	765 kV	SOLAPUR-RAICHUR	2	58	2489	0.0	33.3	-33.3
4	765 kV	WARDHA-NIZAMABAD	2	0	2909	0.0	45.9	-45.9
5	400 kV	KOLHAPUR-KUDGI	2	1011	0	15.3	0.0	15.3
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	88	1.8	0.0	1.8
					WR-SR	17.1	132.9	-115.9

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)	148	0	135	3.3
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	68	66	68	1.7
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	9	0	-28	-0.7
	NER	132KV-GEYLEGPHU - SALAKATI	25	9	11	0.3
	NER	132kV Motanga-Rangia	-6	-4	-6	-0.1
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-79	0	-71	-1.7
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-394	-294	-350	-8.4
	ER	132KV-BIHAR - NEPAL	-347	-216	-293	-7.0
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-861	-739	-816	-19.6
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	85	0	-76	-1.8
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	85	0	-76	-1.8