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: 12th 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 11.04.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 11-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 11th 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:** **12-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)	47281	51112	44329	21135	2508	166365
Peak Shortage (MW)	370	0	0	0	167	537
Energy Met (MU)	963	1295	1158	486	42	3944
Hydro Gen (MU)	100	38	68	38	9	253
Wind Gen (MU)	15	62	26	-	-	102
Solar Gen (MU)*	50.75	35.66	108.19	5.04	0.18	200
Energy Shortage (MU)	6.40	0.00	0.00	0.00	1.72	8.12
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	48345	57282	53369	22349	2719	170281
Time Of Maximum Demand Met (From NLDC SCADA)	19:56	14:56	11:56	20:57	18:51	09:55

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	0.034	0.03	0.81	2.90	3.75	77.13	19.12

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	5845	0	121.1	55.6	-1.0	201	0.00
	Haryana	6340	0	117.6	73.4	0.2	190	0.00
	Rajasthan	9921	0	208.6	45.8	-1.1	324	0.00
	Delhi	3456	0	75.5	60.9	-1.8	20	0.00
	UP	18482	0	327.5	115.6	-1.2	522	0.00
	Uttarakhand	1740	0	35.7	26.9	-0.6	180	0.00
	HP	1288	0	24.5	17.0	-0.2	82	0.00
	J&K(UT) & Ladakh(UT)	2701	350	49.4	40.0	-0.8	275	6.40
	Chandigarh	167	0	3.2	3.5	-0.3	8	0.00
WR	Chhattisgarh	4542	0	106.6	46.7	-0.3	204	0.00
	Gujarat	17821	0	391.8	112.2	0.2	775	0.00
	MP	10805	0	225.5	128.8	-3.3	469	0.00
	Maharashtra	23080	0	516.6	176.3	-1.7	741	0.00
	Goa	489	0	10.3	10.1	-0.3	40	0.00
	DD	311	0	6.8	6.7	0.1	17	0.00
	DNH	797	0	18.7	18.9	-0.2	30	0.00
	AMNSIL	833	0	18.9	1.2	0.2	288	0.00
SR	Andhra Pradesh	10659	0	213.9	103.5	0.0	552	0.00
	Telangana	11458	0	245.0	114.2	1.0	909	0.00
	Karnataka	13216	0	259.9	97.2	0.2	536	0.00
	Kerala	3914	0	79.5	53.5	0.8	200	0.00
	Tamil Nadu	14963	0	351.5	221.7	-2.4	412	0.00
	Puducherry	396	0	8.5	8.4	0.1	46	0.00
ER	Bihar	5658	0	109.1	101.9	-2.4	396	0.00
	DVC	3263	0	71.3	-53.0	0.0	558	0.00
	Jharkhand	1669	0	29.8	23.7	-2.4	214	0.00
	Odisha	4461	0	96.2	30.1	-0.2	562	0.00
	West Bengal	8483	0	179.0	36.3	-1.0	703	0.00
	Sikkim	59	0	0.8	1.5	-0.7	69	0.00
NER	Arunachal Pradesh	120	2	1.8	2.0	-0.2	33	0.00
	Assam	1593	100	24.6	20.2	0.6	120	0.80
	Manipur	192	3	2.4	2.4	-0.1	62	0.01
	Meghalaya	262	47	4.7	3.2	0.2	78	0.89
	Mizoram	100	4	1.5	1.5	-0.1	18	0.01
	Nagaland	121	3	1.9	1.9	0.0	30	0.01
	Tripura	285	6	5.0	3.5	0.9	119	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	4.7	-16.8	-24.1
Day Peak (MW)	276.0	-785.9	-1025.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	149.5	-263.2	203.1	-100.4	10.9	0.0
Actual(MU)	130.9	-267.7	218.3	-99.4	13.2	-4.7
O/D/U/D(MU)	-18.6	-4.5	15.2	1.0	2.3	-4.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4237	13878	6302	1048	1460	26925	45
State Sector	12352	12271	4795	3703	11	33132	55
Total	16589	26149	11097	4751	1471	60057	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	583	1361	632	561	13	3150	78
Lignite	22	11	36	0	0	69	2
Hydro	100	38	68	38	9	253	6
Nuclear	32	23	43	0	0	97	2
Gas, Naptha & Diesel	30	45	11	0	13	99	2
RES (Wind, Solar, Biomass & Others)	85	98	168	5	0	357	9
Total	852	1576	958	604	35	4025	100

Share of RES in total generation (%)	10.02	6.24	17.58	0.83	0.52	8.88
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	25.45	10.14	29.12	7.11	25.97	17.58

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.081
Based on State Max Demands	1.113

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: 12-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	6.1	-6.1
3	765 kV	GAYA-VARANASI	2	119	393	0.0	3.7	-3.7
4	765 kV	SASARAM-FATEHPUR	1	17	147	0.0	1.0	-1.0
5	765 kV	GAYA-BALIA	1	0	387	0.0	5.2	-5.2
6	400 kV	PUSAULI-VARANASI	1	0	238	0.0	5.2	-5.2
7	400 kV	PUSAULI -ALLAHABAD	1	0	70	0.0	0.8	-0.8
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	278	319	0.0	1.6	-1.6
9	400 kV	PATNA-BALIA	4	0	808	0.0	11.6	-11.6
10	400 kV	BIHARSHARIFF-BALIA	2	141	143	0.0	0.4	-0.4
11	400 kV	MOTIHARI-GORAKHPUR	2	82	304	0.0	3.2	-3.2
12	400 kV	BIHARSHARIFF-VARANASI	2	106	148	0.0	0.5	-0.5
13	220 kV	PUSAULI-SAHUPURI	1	30	107	0.0	1.1	-1.1
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	40.3	-39.9
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1365	0	20.8	0.0	20.8
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1022	347	8.9	0.0	8.9
3	765 kV	JHARSUGUDA-DURG	2	143	311	0.0	2.6	-2.6
4	400 kV	JHARSUGUDA-RAIGARH	4	68	246	0.0	2.3	-2.3
5	400 kV	RANCHI-SIPAT	2	236	138	1.6	0.0	1.6
6	220 kV	BUDHIPADAR-RAIGARH	1	0	136	0.0	2.3	-2.3
7	220 kV	BUDHIPADAR-KORBA	2	161	0	2.8	0.0	2.8
					ER-WR	34.1	7.2	26.9
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	413	0.0	8.9	-8.9
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	2473	0.0	49.8	-49.8
3	765 kV	ANGUL-SRIKAKULAM	2	0	2989	0.0	58.9	-58.9
4	400 kV	TALCHER-I/C	2	0	1613	0.0	22.4	-22.4
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	117.5	-117.5
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	147	333	0.0	1.0	-1.0
2	400 kV	ALIPURDUAR-BONGAIGAON	2	244	476	0.0	1.1	-1.1
3	220 kV	ALIPURDUAR-SALAKATI	2	47	74	0.0	0.1	-0.1
					ER-NER	0.0	2.3	-2.3
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	494	0	10.7	0.0	10.7
					NER-NR	10.7	0.0	10.7
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2505	0.0	41.9	-41.9
2	HVDC	VINDHYACHAL B/B	-	285	206	0.0	0.0	0.0
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1925	0.0	38.4	-38.4
4	765 kV	GWALIOR-AGRA	2	0	2499	0.0	32.3	-32.3
5	765 kV	PHAGI-GWALIOR	2	0	1299	0.0	21.3	-21.3
6	765 kV	JABALPUR-ORAI	2	692	828	0.0	20.3	-20.3
7	765 kV	GWALIOR-ORAI	1	653	0	11.9	0.0	11.9
8	765 kV	SATNA-ORAI	1	0	1448	0.0	26.1	-26.1
9	765 kV	CHITORGARH-BANASKANTHA	2	1615	0	20.0	0.0	20.0
10	400 kV	ZERDA-KANKROLI	1	379	0	5.6	0.0	5.6
11	400 kV	ZERDA -BHINMAL	1	560	0	8.1	0.0	8.1
12	400 kV	VINDHYACHAL -RIHAND	1	980	0	22.5	0.0	22.5
13	400 kV	RAPP-SHUJALPUR	2	267	340	2.3	1.6	0.7
14	220 kV	BHANPURA-RANPUR	1	35	70	0.1	0.6	-0.5
15	220 kV	BHANPURA-MORAK	1	0	30	0.3	0.4	0.0
16	220 kV	MEHGAON-AURAIYA	1	133	0	0.9	0.0	0.9
17	220 kV	MALANPUR-AURAIYA	1	96	13	1.5	0.0	1.5
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	73.2	182.8	-109.6
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1006	0.0	15.7	-15.7
2	HVDC	RAIGARH-PUGALUR	2	0	3023	0.0	54.2	-54.2
3	765 kV	SOLAPUR-RAICHUR	2	0	1965	0.0	29.0	-29.0
4	765 kV	WARDHA-NIZAMABAD	2	0	2897	0.0	46.4	-46.4
5	400 kV	KOLHAPUR-KUDGI	2	902	0	13.7	0.0	13.7
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	88	1.2	0.0	1.2
					WR-SR	14.9	145.4	-130.5

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)	183	118	123	3.0
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	85	73	81	2.0
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	18	0	-11	-0.3
	NER	132KV-GEYLEGPHU - SALAKATI	-26	0	3	0.1
	NER	132kV Motanga-Rangia	16	0	-5	-0.1
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-82	0	-70	-1.7
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-352	-216	-327	-7.9
	ER	132KV-BIHAR - NEPAL	-352	-243	-304	-7.3
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-860	0	-855	-20.5
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	82	0	-75	-1.8
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	83	0	-75	-1.8