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: 10th 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 09.04.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 09-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 9th 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: 10-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)	49599	53589	48780	22464	2662	177094
Peak Shortage (MW)	450	0	0	0	52	502
Energy Met (MU)	1001	1370	1218	487	46	4122
Hydro Gen (MU)	110	54	84	32	9	289
Wind Gen (MU)	8	60	29	-	-	96
Solar Gen (MU)*	50.45	36.74	108.22	4.90	0.15	200
Energy Shortage (MU)	8.71	0.00	0.03	0.00	1.25	9.99
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	50488	59576	57574	22664	2945	178383
Time Of Maximum Demand Met (From NLDC SCADA)	19:33	15:23	14:56	21:26	19:04	19:17

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	0.031	0.00	0.00	3.49	3.49	72.16	24.35

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	5945	100	122.4	56.6	-1.1	181	1.38
	Haryana	6701	0	130.0	90.2	-2.3	135	0.00
	Rajasthan	10346	0	214.5	55.4	-0.5	335	0.13
	Delhi	3860	0	79.5	65.2	-2.0	83	0.01
	UP	18411	0	331.8	119.9	-1.5	438	0.00
	Uttarakhand	1877	0	38.7	23.5	0.4	246	0.79
	HP	1519	0	29.1	20.8	0.0	207	0.00
	J&K(UT) & Ladakh(UT)	2521	350	51.9	40.1	1.9	227	6.40
	Chandigarh	177	0	3.4	3.5	-0.1	12	0.00
WR	Chhattisgarh	4496	0	108.5	53.0	-0.5	282	0.00
	Gujarat	18953	0	409.5	101.6	2.2	557	0.00
	MP	11174	0	238.1	114.5	-1.9	425	0.00
	Maharashtra	24908	0	556.0	175.9	-2.2	730	0.00
	Goa	570	0	12.5	12.3	-0.3	92	0.00
	DD	344	0	7.7	7.6	0.1	21	0.00
	DNH	834	0	19.4	19.4	0.0	43	0.00
	AMNSIL	866	0	18.2	1.2	0.4	300	0.00
SR	Andhra Pradesh	10520	0	217.8	103.8	0.6	387	0.00
	Telangana	12332	0	258.4	131.1	-0.1	580	0.00
	Karnataka	14070	0	271.9	93.4	4.7	733	0.00
	Kerala	4250	0	87.9	55.1	1.3	287	0.03
	Tamil Nadu	16588	0	372.7	232.0	0.1	500	0.00
	Puducherry	448	0	9.5	9.5	0.0	36	0.00
ER	Bihar	5649	0	109.3	100.1	0.2	315	0.00
	DVC	3262	0	71.6	-59.5	0.5	280	0.00
	Jharkhand	1436	0	28.1	22.4	-2.6	133	0.00
	Odisha	4692	0	93.8	28.5	-0.8	294	0.00
	West Bengal	8817	0	183.2	34.9	0.4	488	0.00
	Sikkim	68	0	0.9	1.6	-0.7	37	0.00
NER	Arunachal Pradesh	131	1	2.1	2.0	0.1	38	0.00
	Assam	1741	25	27.6	23.9	0.0	109	1.20
	Manipur	204	3	2.5	2.5	0.1	32	0.01
	Meghalaya	325	3	5.4	3.9	0.1	35	0.00
	Mizoram	107	0	1.6	1.4	0.1	27	0.01
	Nagaland	129	1	2.0	1.8	0.2	31	0.02
	Tripura	281	8	4.3	3.0	0.2	59	0.01

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	3.6	-18.0	-21.6
Day Peak (MW)	201.0	-749.7	-1008.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	184.2	-309.0	214.7	-102.4	12.5	0.0
Actual(MU)	162.6	-304.0	224.2	-104.1	13.6	-7.6
O/D/U/D(MU)	-21.6	5.0	9.5	-1.7	1.1	-7.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5447	14778	6342	1048	1460	29075	49
State Sector	13197	9979	5005	2293	11	30485	51
Total	18644	24757	11347	3341	1471	59560	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	583	1428	659	569	16	3256	77
Lignite	19	9	45	0	0	73	2
Hydro	110	54	84	32	9	289	7
Nuclear	32	34	43	0	0	108	3
Gas, Naptha & Diesel	35	73	13	0	13	133	3
RES (Wind, Solar, Biomass & Others)	79	97	170	5	0	352	8
Total	859	1695	1014	606	38	4211	100

Share of RES in total generation (%)	9.23	5.72	16.81	0.81	0.40	8.35
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	25.78	10.91	29.28	6.13	23.30	17.79

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.083
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: 10-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	0	500	0.0	7.1	-7.1
4	765 kV	SASARAM-FATEHPUR	1	77	100	0.0	0.2	-0.2
5	765 kV	GAYA-BALIA	1	0	394	0.0	6.8	-6.8
6	400 kV	PUSAULI-VARANASI	1	0	219	0.0	4.6	-4.6
7	400 kV	PUSAULI -ALLAHABAD	1	0	82	0.0	1.2	-1.2
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	240	276	0.0	2.1	-2.1
9	400 kV	PATNA-BALIA	4	0	712	0.0	12.1	-12.1
10	400 kV	BIHARSHARIFF-BALIA	2	115	133	0.0	0.9	-0.9
11	400 kV	MOTIHARI-GORAKHPUR	2	29	254	0.0	3.4	-3.4
12	400 kV	BIHARSHARIFF-VARANASI	2	23	139	0.0	1.8	-1.8
13	220 kV	PUSAULI-SAHUPURI	1	43	119	0.0	0.7	-0.7
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	20	0	0.2	0.0	0.2
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	0.2	47.0	-46.8
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1281	0	21.0	0.0	21.0
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1199	132	12.0	0.0	12.0
3	765 kV	JHARSUGUDA-DURG	2	190	248	0.0	1.3	-1.3
4	400 kV	JHARSUGUDA-RAIGARH	4	117	326	0.0	3.4	-3.4
5	400 kV	RANCHI-SIPAT	2	271	104	0.7	0.0	0.7
6	220 kV	BUDHIPADAR-RAIGARH	1	0	148	0.0	2.4	-2.4
7	220 kV	BUDHIPADAR-KORBA	2	144	0	2.3	0.0	2.3
					ER-WR	35.8	7.1	28.7
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	362	0.0	8.9	-8.9
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	2475	0.0	48.2	-48.2
3	765 kV	ANGUL-SRIKAKULAM	2	0	3235	0.0	60.9	-60.9
4	400 kV	TALCHER-I/C	2	0	1154	0.0	19.5	-19.5
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	118.0	-118.0
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	129	236	0.0	1.2	-1.2
2	400 kV	ALIPURDUAR-BONGAIGAON	2	235	288	0.0	1.1	-1.1
3	220 kV	ALIPURDUAR-SALAKATI	2	38	61	0.0	0.3	-0.3
					ER-NER	0.0	2.5	-2.5
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	469	0	11.0	0.0	11.0
					NER-NR	11.0	0.0	11.0
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1501	0.0	29.0	-29.0
2	HVDC	VINDHYACHAL B/B	-	313	30	6.8	0.0	6.8
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1923	0.0	46.0	-46.0
4	765 kV	GWALIOR-AGRA	2	0	2517	0.0	39.3	-39.3
5	765 kV	PHAGI-GWALIOR	2	0	1196	0.0	20.0	-20.0
6	765 kV	JABALPUR-ORAI	2	0	856	0.0	24.5	-24.5
7	765 kV	GWALIOR-ORAI	1	630	0	11.3	0.0	11.3
8	765 kV	SATNA-ORAI	1	0	1397	0.0	26.2	-26.2
9	765 kV	CHITORGARH-BANASKANTHA	2	1295	35	0.0	13.5	-13.5
10	400 kV	ZERDA-KANKROLI	1	344	0	4.3	0.0	4.3
11	400 kV	ZERDA -BHINMAL	1	506	30	5.3	0.0	5.3
12	400 kV	VINDHYACHAL -RIHAND	1	483	0	11.1	0.0	11.1
13	400 kV	RAPP-SHUJALPUR	2	186	404	0.5	2.8	-2.3
14	220 kV	BHANPURA-RANPUR	1	0	113	0.0	1.1	-1.1
15	220 kV	BHANPURA-MORAK	1	0	30	0.1	0.8	-0.7
16	220 kV	MEHGAON-AURAIYA	1	125	0	0.7	0.0	0.7
17	220 kV	MALANPUR-AURAIYA	1	88	8	1.4	0.0	1.4
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	41.4	203.2	-161.8
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1019	0.0	18.1	-18.1
2	HVDC	RAIGARH-PUGALUR	2	0	3024	0.0	49.3	-49.3
3	765 kV	SOLAPUR-RAICHUR	2	0	2066	0.0	32.4	-32.4
4	765 kV	WARDHA-NIZAMABAD	2	0	2933	0.0	53.7	-53.7
5	400 kV	KOLHAPUR-KUDGI	2	834	0	11.8	0.0	11.8
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	86	1.8	0.0	1.8
					WR-SR	13.6	153.4	-139.8

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)	77	0	51	1.2
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	132	102	103	2.5
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	18	0	-13	-0.3
	NER	132KV-GEYLEGPHU - SALAKATI	-6	6	0	0.0
	NER	132kV Motanga-Rangia	-20	1	-10	-0.2
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-81	0	-73	-1.8
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-333	-292	-333	-8.2
	ER	132KV-BIHAR - NEPAL	-336	-251	-336	-8.1
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-853	-658	-768	-18.4
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	78	0	-66	-1.6
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	77	0	-66	-1.6