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: 8th 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 07.04.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 07-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 7th 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: 08-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)	50103	55904	48946	23588	2659	181200
Peak Shortage (MW)	420	0	0	0	8	428
Energy Met (MU)	973	1377	1217	505	47	4120
Hydro Gen (MU)	113	72	94	40	6	325
Wind Gen (MU)	15	61	25	-	-	100
Solar Gen (MU)*	48.61	38.39	107.09	5.01	0.18	199
Energy Shortage (MU)	10.53	0.00	0.00	0.00	0.82	11.35
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	50406	59456	57415	24456	3040	181058
Time Of Maximum Demand Met (From NLDC SCADA)	19:54	15:03	15:33	19:51	18:22	19:39

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	0.057	0.00	1.54	14.84	16.38	71.45	12.17

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	5800	0	107.8	49.5	-0.5	208	1.08
	Haryana	6607	0	119.6	87.6	0.4	570	0.58
	Rajasthan	10395	0	214.8	45.6	0.6	482	0.17
	Delhi	3945	0	81.7	67.0	-2.3	23	0.00
	UP	19097	0	336.1	122.7	0.0	408	1.46
	Uttarakhand	1792	0	36.4	24.9	0.1	247	0.65
	HP	1318	0	25.0	16.9	0.3	145	0.19
	J&K(UT) & Ladakh(UT)	2505	350	48.1	36.9	0.6	270	6.40
	Chandigarh	182	0	3.2	3.4	-0.2	15	0.00
WR	Chhattisgarh	4787	0	115.7	55.3	0.6	208	0.00
	Gujarat	18691	0	403.1	93.9	0.8	590	0.00
	MP	11174	0	240.2	108.2	-0.8	618	0.00
	Maharashtra	25506	0	559.6	169.3	0.6	1157	0.00
	Goa	579	0	11.8	11.3	0.0	38	0.00
	DD	341	0	7.8	7.5	0.3	25	0.00
	DNH	843	0	19.5	19.3	0.2	44	0.00
	AMNSIL	884	0	19.5	1.7	0.3	338	0.00
SR	Andhra Pradesh	10950	0	221.5	99.5	0.3	609	0.00
	Telangana	12936	0	268.9	131.8	0.6	502	0.00
	Karnataka	13969	0	277.7	94.0	3.5	963	0.00
	Kerala	3968	0	87.3	57.1	0.2	210	0.00
	Tamil Nadu	16250	0	353.3	221.4	-0.5	631	0.00
	Puducherry	417	0	8.7	8.9	-0.2	31	0.00
ER	Bihar	5849	0	106.8	94.6	1.7	621	0.00
	DVC	3397	0	72.5	-48.1	-0.7	299	0.00
	Jharkhand	1498	0	28.9	21.5	-1.4	187	0.00
	Odisha	5264	0	113.4	54.6	0.6	363	0.00
	West Bengal	9046	0	182.5	47.8	0.3	441	0.00
	Sikkim	80	0	1.1	1.6	-0.5	1	0.00
NER	Arunachal Pradesh	132	2	2.2	1.9	0.3	55	0.01
	Assam	1794	21	29.3	24.8	0.8	349	0.00
	Manipur	203	3	2.5	2.4	0.1	31	0.02
	Meghalaya	275	0	4.6	2.9	0.4	92	0.76
	Mizoram	109	1	1.7	1.6	0.1	16	0.01
	Nagaland	129	1	1.9	1.7	0.2	39	0.02
	Tripura	284	1	4.6	3.8	0.2	82	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	3.4	-16.5	-23.6
Day Peak (MW)	345.0	-805.4	-1014.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	165.0	-314.9	190.2	-48.0	7.7	0.0
Actual(MU)	140.8	-308.9	195.2	-41.3	10.3	-4.0
O/D/U/D(MU)	-24.2	6.0	5.0	6.7	2.6	-4.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5447	16235	6142	1958	1247	31029	48
State Sector	14802	10056	5395	3963	11	34227	52
Total	20249	26291	11537	5921	1258	65255	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	570	1425	681	533	17	3226	77
Lignite	22	9	41	0	0	72	2
Hydro	113	72	94	40	6	325	8
Nuclear	28	29	46	0	0	103	2
Gas, Naptha & Diesel	33	72	13	0	21	138	3
RES (Wind, Solar, Biomass & Others)	84	99	162	5	0	350	8
Total	850	1705	1038	579	43	4215	100

Share of RES in total generation (%)	9.87	5.81	15.64	0.87	0.42	8.32
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	26.40	11.72	29.15	7.83	13.52	18.46

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.076
Based on State Max Demands	1.110

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: 08-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	45	392	0.0	4.1	-4.1
4	765 kV	SASARAM-FATEHPUR	1	187	137	0.3	0.0	0.3
5	765 kV	GAYA-BALIA	1	0	411	0.0	6.3	-6.3
6	400 kV	PUSAULI-VARANASI	1	0	225	0.0	4.8	-4.8
7	400 kV	PUSAULI -ALLAHABAD	1	0	79	0.0	1.0	-1.0
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	282	277	0.0	1.4	-1.4
9	400 kV	PATNA-BALIA	4	0	745	0.0	9.9	-9.9
10	400 kV	BIHARSHARIFF-BALIA	2	96	179	0.0	1.5	-1.5
11	400 kV	MOTIHARI-GORAKHPUR	2	120	214	0.0	1.9	-1.9
12	400 kV	BIHARSHARIFF-VARANASI	2	84	124	0.0	0.6	-0.6
13	220 kV	PUSAULI-SAHUPURI	1	33	106	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	0.7	38.8	-38.1
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1658	0	31.8	0.0	31.8
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1465	77	17.0	0.0	17.0
3	765 kV	JHARSUGUDA-DURG	2	357	14	4.0	0.0	4.0
4	400 kV	JHARSUGUDA-RAIGARH	4	174	141	1.2	0.0	1.2
5	400 kV	RANCHI-SIPAT	2	349	82	3.0	0.0	3.0
6	220 kV	BUDHIPADAR-RAIGARH	1	0	151	0.0	2.9	-2.9
7	220 kV	BUDHIPADAR-KORBA	2	151	0	2.8	0.0	2.8
					ER-WR	59.7	2.9	56.9
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	1085	462	0.0	8.8	-8.8
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	2480	0.0	50.6	-50.6
3	765 kV	ANGUL-SRIKAKULAM	2	0	2831	0.0	53.3	-53.3
4	400 kV	TALCHER-I/C	2	246	641	0.0	5.8	-5.8
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	112.8	-112.8
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	151	170	0.9	0.6	0.3
2	400 kV	ALIPURDUAR-BONGAIGAON	2	247	193	1.4	0.0	1.4
3	220 kV	ALIPURDUAR-SALAKATI	2	41	37	0.2	0.0	0.2
					ER-NER	2.5	0.6	1.9
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	469	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	27.6	-27.6
2	HVDC	VINDHYACHAL B/B	-	301	0	7.3	0.0	7.3
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1920	0.0	40.8	-40.8
4	765 kV	GWALIOR-AGRA	2	0	2591	0.0	42.3	-42.3
5	765 kV	PHAGI-GWALIOR	2	0	1065	0.0	18.2	-18.2
6	765 kV	JABALPUR-ORAI	2	793	882	0.0	26.1	-26.1
7	765 kV	GWALIOR-ORAI	1	590	0	10.8	0.0	10.8
8	765 kV	SATNA-ORAI	1	0	1327	0.0	27.3	-27.3
9	765 kV	CHITORGARH-BANASKANTHA	2	1228	7	0.0	13.5	-13.5
10	400 kV	ZERDA-KANKROLI	1	330	0	4.4	0.0	4.4
11	400 kV	ZERDA -BHINMAL	1	516	0	6.3	0.0	6.3
12	400 kV	VINDHYACHAL -RIHAND	1	992	0	19.5	0.0	19.5
13	400 kV	RAPP-SHUJALPUR	2	183	320	0.0	3.2	-3.2
14	220 kV	BHANPURA-RANPUR	1	11	64	0.0	0.7	-0.7
15	220 kV	BHANPURA-MORAK	1	0	30	0.1	0.4	-0.3
16	220 kV	MEHGAON-AURAIYA	1	116	0	0.6	0.0	0.6
17	220 kV	MALANPUR-AURAIYA	1	80	4	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	50.0	200.1	-150.1
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1016	0.0	20.1	-20.1
2	HVDC	RAIGARH-PUGALUR	2	0	3008	0.0	65.6	-65.6
3	765 kV	SOLAPUR-RAICHUR	2	0	1814	0.0	23.5	-23.5
4	765 kV	WARDHA-NIZAMABAD	2	0	2586	0.0	35.1	-35.1
5	400 kV	KOLHAPUR-KUDGI	2	869	0	14.0	0.0	14.0
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	116	2.2	0.0	2.2
					WR-SR	16.2	144.3	-128.1

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)	100	0	61	1.5
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	142	0	70	1.7
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	63	0	10	0.3
	NER	132KV-GEYLEGPHU - SALAKATI	7	1	1	0.0
	NER	132kV Motanga-Rangia	33	2	-14	-0.3
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-73	0	-62	-1.5
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-377	-237	-321	-7.7
	ER	132KV-BIHAR - NEPAL	-355	-278	-306	-7.3

BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-850	-845	-847	-20.3
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	82	0	-68	-1.6
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	82	0	-68	-1.6