



National Load Despatch Centre
राष्ट्रीय भार प्रेषण केंद्र
POWER SYSTEM OPERATION CORPORATION LIMITED
पावर 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: 04th Mar 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., डोंगतेह, 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 03.03.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 03-मार्च-2021 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा०भा०प्रे०के० की वेबसाइट पर उपलब्ध 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 03rd March 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: 04-Mar-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 19:00 hrs; from RLDCs)	49097	54703	45136	20306	2504	171746
Peak Shortage (MW)	500	0	0	0	33	533
Energy Met (MU)	1036	1316	1128	419	42	3941
Hydro Gen (MU)	116	47	74	33	9	279
Wind Gen (MU)	3	37	47	-	-	87
Solar Gen (MU)*	49.58	40.40	112.32	4.88	0.19	207
Energy Shortage (MU)	10.62	0.00	0.00	0.00	1.09	11.71
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	50966	59974	54319	20458	2615	182139
Time Of Maximum Demand Met (From NLDC SCADA)	09:27	11:22	10:46	18:30	18:10	09:36

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	2.88	2.88	70.91	26.21

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	7001	0	142.9	66.4	-0.6	120	0.00
	Haryana	6626	0	137.9	85.1	1.0	187	0.00
	Rajasthan	13901	0	264.8	89.2	3.4	389	0.31
	Delhi	3494	0	62.8	46.7	-1.6	113	0.01
	UP	16916	0	304.3	93.5	0.1	437	0.10
	Uttarakhand	2068	0	38.4	21.2	0.8	131	0.00
	HP	1793	0	31.9	26.3	0.6	176	0.00
	J&K(UT) & Ladakh(UT)	2451	500	50.2	44.9	-0.3	147	10.20
WR	Chhattisgarh	4569	0	105.7	59.0	1.2	260	0.00
	Gujarat	17089	0	369.1	130.0	1.9	817	0.00
	MP	13001	0	260.0	147.0	-2.0	345	0.00
	Maharashtra	24268	0	526.5	163.4	-3.3	527	0.00
	Goa	542	0	11.6	11.3	-0.2	44	0.00
	DD	349	0	7.8	7.5	0.3	28	0.00
	DNH	879	0	20.3	19.9	0.4	40	0.00
	AMNSIL	666	0	14.6	1.2	0.3	239	0.00
SR	Andhra Pradesh	10696	0	204.7	72.3	-0.2	487	0.00
	Telangana	13237	0	264.0	145.6	0.3	700	0.00
	Karnataka	13077	0	247.3	93.0	-1.2	653	0.00
	Kerala	3974	0	81.6	56.3	0.2	285	0.00
	Tamil Nadu	14871	0	322.6	197.0	-3.1	522	0.00
	Puducherry	368	0	7.6	7.9	-0.2	21	0.00
ER	Bihar	4539	0	84.5	72.2	-0.4	327	0.00
	DVC	3224	0	68.3	-50.6	-0.7	212	0.00
	Jharkhand	1293	0	26.9	19.5	-0.8	122	0.00
	Odisha	4353	0	85.4	19.2	-1.6	317	0.00
	West Bengal	7627	0	153.2	27.1	-1.1	469	0.00
NER	Sikkim	86	0	1.2	1.7	-0.5	4	0.00
	Arunachal Pradesh	135	4	2.1	2.3	-0.2	38	0.00
	Assam	1528	20	24.9	19.9	0.4	167	0.60
	Manipur	210	6	2.5	2.8	-0.3	19	0.03
	Meghalaya	301	0	5.4	4.0	0.1	59	0.44
	Mizoram	101	3	1.6	1.3	0.0	18	0.01
	Nagaland	139	5	2.0	2.1	-0.2	14	0.01
	Tripura	248	0	3.9	4.4	-0.1	65	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	4.9	-12.1	-20.2
Day Peak (MW)	492.0	-564.0	-883.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	195.4	-222.1	175.7	-146.6	-2.4	0.0
Actual(MU)	194.6	-223.1	163.0	-146.9	-0.9	-13.3
O/D/U/D(MU)	-0.8	-1.0	-12.7	-0.3	1.4	-13.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5900	16318	5832	948	559	29557	44
State Sector	11877	13760	8104	3807	11	37559	56
Total	17777	30078	13936	4755	570	67115	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	596	1350	611	566	12	3134	78
Lignite	25	11	33	0	0	68	2
Hydro	116	47	74	33	9	279	7
Nuclear	23	21	47	0	0	91	2
Gas, Naptha & Diesel	31	37	16	0	28	112	3
RES (Wind, Solar, Biomass & Others)	79	79	194	5	0	357	9
Total	869	1545	975	604	49	4041	100

Share of RES in total generation (%)	9.10	5.09	19.95	0.80	0.39	8.84
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	25.05	9.52	32.29	6.25	18.86	17.98

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.034
Based on State Max Demands	1.075

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: 04-Mar-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	249	0.0	6.2	-6.2	
3	765 kV	GAYA-VARANASI	2	0	787	0.0	12.2	-12.2	
4	765 kV	SASARAM-FATEHPUR	1	0	382	0.0	6.5	-6.5	
5	765 kV	GAYA-BALIA	1	0	417	0.0	7.1	-7.1	
6	400 kV	PUSAULI-VARANASI	1	0	182	0.0	3.7	-3.7	
7	400 kV	PUSAULI-ALLAHABAD	1	0	126	0.0	2.3	-2.3	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	763	0.0	12.7	-12.7	
9	400 kV	PATNA-BALIA	4	0	1129	0.0	19.3	-19.3	
10	400 kV	BIHARSHARIFF-BALIA	2	0	437	0.0	7.9	-7.9	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	338	0.0	6.5	-6.5	
12	400 kV	BIHARSHARIFF-VARANASI	2	0	312	0.0	4.3	-4.3	
13	220 kV	PUSAULI-SAHUPURI	1	22	81	0.0	0.8	-0.8	
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0	
15	132 kV	GARWAH-RIHAND	1	20	0	0.7	0.0	0.7	
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	89.3	-88.7
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	435	300	2.3	0.0	2.3	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	167	647	0.0	3.7	-3.7	
3	765 kV	JHARSUGUDA-DURG	2	0	388	0.0	6.6	-6.6	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	563	0.0	9.7	-9.7	
5	400 kV	RANCHI-SIPAT	2	0	257	0.0	2.6	-2.6	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	160	0.0	2.8	-2.8	
7	220 kV	BUDHIPADAR-KORBA	2	51	38	0.0	0.0	0.0	
						ER-WR	2.3	25.5	-23.2
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	640	0.0	12.0	-12.0	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1239	0.0	25.1	-25.1	
3	765 kV	ANGUL-SRIKAKULAM	2	0	3007	0.0	61.5	-61.5	
4	400 kV	TALCHER-I/C	2	929	0	20.0	0.0	20.0	
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0	
						ER-SR	0.0	98.6	-98.6
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	315	0	4.1	0.0	4.1	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	501	0	6.9	0.0	6.9	
3	220 kV	ALIPURDUAR-SALAKATI	2	43	0	0.6	0.0	0.6	
						ER-NER	11.6	0.0	11.6
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	468	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	1005	0.0	38.6	-38.6	
2	HVDC	VINDHYACHAL B/B	-	241	0	6.0	0.0	6.0	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	983	0.0	21.6	-21.6	
4	765 kV	GWALIOR-AGRA	2	0	1890	0.0	30.7	-30.7	
5	765 kV	PHAGI-GWALIOR	2	0	1311	0.0	23.0	-23.0	
6	765 kV	JABALPUR-ORAI	2	0	791	0.0	28.4	-28.4	
7	765 kV	GWALIOR-ORAI	1	677	0	12.3	0.0	12.3	
8	765 kV	SATNA-ORAI	1	0	1178	0.0	24.4	-24.4	
9	765 kV	CHITORGARH-BANASKANTHA	2	599	333	1.2	0.0	1.2	
10	400 kV	ZERDA-KANKROLI	1	186	79	1.6	0.0	1.6	
11	400 kV	ZERDA -BHINMAL	1	191	315	0.0	0.6	-0.6	
12	400 kV	VINDHYACHAL -RIHAND	2	982	0	22.2	0.0	22.2	
13	400 kV	RAPP-SHUJALPUR	2	53	342	0.0	3.0	-2.9	
14	220 kV	BHANPURA-RANPUR	1	0	134	0.0	0.0	0.0	
15	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.0	0.0	
16	220 kV	MEHGAON-AURAIYA	1	128	0	1.7	2.1	-0.5	
17	220 kV	MALANPUR-AURAIYA	1	79	0	1.3	0.0	1.3	
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	1.1	-1.1	
						WR-NR	46.3	173.5	-127.1
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	522	0.0	12.4	-12.4	
2	HVDC	RAIGARH-PUGALUR	2	0	1503	0.0	38.1	-38.1	
3	765 kV	SOLAPUR-RAICHUR	2	0	1902	0.0	28.6	-28.6	
4	765 kV	WARDHA-NIZAMABAD	2	0	3051	0.0	53.8	-53.8	
5	400 kV	KOLHAPUR-KUDGI	2	1191	0	19.3	0.0	19.3	
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	1.7	0.0	1.7	
						WR-SR	21.0	132.9	-111.9

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 MANGDECHHU HEP 4*180MW)	238	0	122	2.9
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	147	53	104	2.5
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	60	0	-22	-0.5
	NER	132KV-GEYLEGPHU - SALAKATI	35	11	24	0.6
	NER	132KV Motanga-Rangia	13	-3	6	0.1
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	0	0	0	0.0
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-330	-276	-329	-7.9
	ER	132KV-BIHAR - NEPAL	-234	-112	-174	-4.2
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-733	-730	-730	-17.5
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	75	0	-56	-1.3
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	75	0	-55	-1.3