



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: 17th Mar 2020

To,

- कार्यकारी निदेशक, पू.क्षे.भा.प्रे.के., 14, गोल्फ क्लब रोड, कोलकाता - 700033
Executive Director, ERLDC, 14 Golf Club Road, Tollygunge, Kolkata, 700033
- 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
- 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
- कार्यकारी निदेशक, ऊ.पू.क्षे.भा.प्रे.के., डोंगतिह, लोअर नोंग्रह, लापलंग, शिलोंग - 793006
Executive Director, NERLDC, Dongteih, Lower Nongrah, Lapalang, Shillong - 793006, Meghalaya
- 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 16.03.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 16-मार्च-2020 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 16th Mar 2020, 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 17-Mar-2020

A. Power Supply Position at All India and Regional level

	NR	WR	SR	ER	NER	Total
Demand Met during Evening Peak hrs(MW) (at 1900 hrs; from RLDCs)	38399	49175	45255	19367	2415	154611
Peak Shortage (MW)	515	0	0	0	5	520
Energy Met (MU)	802	1156	1127	369	41	3494
Hydro Gen (MU)	141	61	91	36	4	332
Wind Gen (MU)	11	80	41	-	-	132
Solar Gen (MU)*	42.30	27.10	92.85	1.75	0.04	164
Energy Shortage (MU)	10.0	0.0	0.0	0.0	0.5	11
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	40619 19:16	54336 11:16	52332 10:25	19080 18:56	2384 19:02	162783 09:31

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	0.044	0.00	0.00	9.28	9.28	70.06	20.66

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	4904	0	95.3	66.9	-0.3	167	0.0
	Haryana	5652	0	105.7	88.1	0.7	249	0.0
	Rajasthan	11777	0	205.6	58.9	-0.6	209	0.0
	Delhi	3433	0	59.2	47.7	-1.1	137	0.0
	UP	12791	0	232.8	112.2	0.4	1169	0.0
	Uttarakhand	1758	0	33.2	11.3	0.0	156	0.0
	HP	1558	0	24.6	18.1	-0.7	192	0.0
	J&K(UT) and Ladakh(UT)	2061	515	42.6	39.8	-5.2	88	10.0
	Chandigarh	202	0	3.3	3.3	-0.1	29	0.0
WR	Chhattisgarh	3821	0	85.1	31.7	-0.5	306	0.0
	Gujarat	15714	0	338.0	77.2	4.3	670	0.0
	MP	10359	0	202.7	103.6	-1.9	408	0.0
	Maharashtra	23607	0	490.5	155.4	0.2	626	0.0
	Goa	495	0	10.4	10.0	-0.1	48	0.0
	DD	318	0	7.1	6.9	0.2	35	0.0
	DNH	809	0	18.7	18.8	-0.1	45	0.0
	Essar steel	723	0	3.7	3.8	-0.1	257	0.0
	SR	Andhra Pradesh	9967	0	201.2	99.2	1.2	715
Telangana		11929	0	241.2	132.4	0.1	572	0.0
Karnataka		13258	0	255.6	85.6	0.3	530	0.0
Kerala		4087	0	83.0	62.3	1.4	225	0.0
Tamil Nadu		15565	0	337.6	188.5	-1.0	481	0.0
Puducherry		392	0	8.0	8.3	-0.3	28	0.0
ER	Bihar	3870	0	71.7	66.2	1.4	315	0.0
	DVC	3068	0	63.6	-42.6	0.1	258	0.0
	Jharkhand	1303	0	23.7	16.1	-1.4	183	0.0
	Odisha	4044	0	79.4	0.6	-0.6	256	0.0
	West Bengal	7250	0	129.0	35.5	0.8	859	0.0
	Sikkim	128	0	1.4	1.7	-0.3	58	0.0
NER	Arunachal Pradesh	120	1	2.1	2.1	-0.2	20	0.0
	Assam	1460	10	23.4	19.9	0.0	96	0.4
	Manipur	166	2	2.3	2.3	0.0	19	0.0
	Meghalaya	321	0	5.4	3.9	0.3	232	0.1
	Mizoram	100	1	1.6	1.4	0.1	22	0.0
	Nagaland	136	1	2.1	2.0	0.0	26	0.0
	Tripura	251	0	3.9	2.5	0.0	28	0.0

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	2.5	-11.7	-17.0
Day peak (MW)	356.3	-495.4	-1079.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	193.4	-259.0	183.6	-123.6	5.5	-0.2
Actual(MU)	179.8	-257.1	202.3	-134.1	7.5	-1.7
O/D/U/D(MU)	-13.6	1.9	18.7	-10.5	1.9	-1.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	5730	15427	4302	1585	727	27772
State Sector	19530	17427	9035	4850	11	50853
Total	25260	32854	13337	6435	738	78624

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	347	1113	534	495	12	2501
Lignite	21	14	50	0	0	86
Hydro	141	61	91	36	4	332
Nuclear	24	37	60	0	0	121
Gas, Naptha & Diesel	31	75	18	0	23	146
RES (Wind, Solar, Biomass & Others)	81	122	173	2	0	377
Total	644	1422	925	533	39	3563

Share of RES in total generation (%)	12.51	8.59	18.66	0.35	0.10	10.59
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	38.08	15.44	35.00	7.08	11.29	23.31

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.037
Based on State Max Demands	1.090

Diversity factor = Sum of regional or state-wise maximum demands / All India maximum demand

*Source: RLDCs for solar connected to ISTS; SLDCs for embedded solar. Limited visibility of embedded solar data.

INTER-REGIONAL EXCHANGES

Import=(+ve) /Export =(-ve) for NET (MU)

Date of Reporting: 17-Mar-2020

Sl No	Voltage Level	Line Details	Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)	
Import/Export of ER (With NR)									
1	HVDC	ALIPURDUAR-AGRA	-	0	0	0.0	0.0	0.0	
2	HVDC	PUSAULI B/B	S/C	0	249	0.0	5.9	-5.9	
3	765 kV	GAYA-VARANASI	D/C	0	933	0.0	10.3	-10.3	
4	765 kV	SASARAM-FATEHPUR	S/C	17	449	0.0	5.0	-5.0	
5	765 kV	GAYA-BALIA	S/C	0	527	0.0	8.3	-8.3	
6	400 kV	PUSAULI-VARANASI	S/C	0	201	0.0	3.9	-3.9	
7	400 kV	PUSAULI-ALLAHABAD	S/C	0	145	0.0	2.0	-2.0	
8	400 kV	MUZAFFARPUR-GORAKHPUR	D/C	0	677	0.0	10.1	-10.1	
9	400 kV	PATNA-BALIA	Q/C	0	1001	0.0	17.0	-17.0	
10	400 kV	BIHARSHARIFF-BALIA	D/C	0	356	0.0	5.0	-5.0	
11	400 kV	MOTIHARI-GORAKHPUR	D/C	0	354	0.0	6.8	-6.8	
12	400 kV	BIHARSHARIFF-VARANASI	D/C	73	325	0.0	2.5	-2.5	
13	220 kV	PUSAULI-SAHUPURI	S/C	0	159	0.0	2.9	-2.9	
14	132 kV	SONE NAGAR-RHAND	S/C	0	0	0.0	0.0	0.0	
15	132 kV	GARWAH-RHAND	S/C	30	0	0.5	0.0	0.5	
16	132 kV	KARMANASA-SAHUPURI	S/C	0	0	0.0	0.0	0.0	
17	132 kV	KARMANASA-CHANDAULI	S/C	0	0	0.0	0.0	0.0	
						ER-NR	0.5	79.7	-79.3
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1206	0	22.2	0.0	22.2	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	531	148	4.8	0.0	4.8	
3	765 kV	JHARSUGUDA-DURG	D/C	19	194	0.0	2.4	-2.4	
4	400 kV	JHARSUGUDA-RAIGARH	Q/C	92	261	0.0	2.7	-2.7	
5	400 kV	RANCHI-SIPAT	D/C	178	71	1.1	0.0	1.1	
6	220 kV	BUDHIPADAR-RAIGARH	S/C	13	88	0.0	1.1	-1.1	
7	220 kV	BUDHIPADAR-KORBA	D/C	113	0	1.3	0.0	1.3	
						ER-WR	29.4	6.2	23.2
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0	688	0.0	15.9	-15.9	
2	HVDC	TALCHER-KOLAR BIPOLE	D/C	0	2460	0.0	48.8	-48.8	
3	765 kV	ANGUL-SRIKAKULAM	D/C	0	3116	0.0	64.7	-64.7	
4	400 kV	TALCHER-IC	D/C	0	908	0.0	7.1	-7.1	
5	220 kV	BALIMELA-UPPER-SILERRU	S/C	1	0	0.0	0.0	0.0	
						ER-SR	0.0	129.4	-129.4
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	D/C	157	110	0.9	0.0	0.9	
2	400 kV	ALIPURDUAR-BONGAIGAON	D/C	253	118	1.8	0.0	1.8	
3	220 kV	ALIPURDUAR-SALAKATI	D/C	46	31	0.4	0.0	0.4	
						ER-NER	3.2	0.0	3.2
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	-	469	0	11.6	0.0	11.6	
						NER-NR	11.6	0.0	11.6
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	D/C	0	459	0.0	8.7	-8.7	
2	HVDC	V'CHAL B/B	D/C	449	101	5.4	0.0	5.4	
3	HVDC	APL -MHG	D/C	0	1081	0.0	26.7	-26.7	
4	765 kV	GWALIOR-AGRA	D/C	0	2117	0.0	39.9	-39.9	
5	765 kV	PHAGI-GWALIOR	D/C	0	1485	0.0	21.7	-21.7	
6	765 kV	JABALPUR-ORAI	D/C	0	791	0.0	27.1	-27.1	
7	765 kV	GWALIOR-ORAI	S/C	582	0	10.6	0.0	10.6	
8	765 kV	SATNA-ORAI	S/C	0	1222	0.0	25.9	-25.9	
9	765 kV	CHITORGARH-BANASKANTHA	D/C	261	958	0.0	4.0	-4.0	
10	400 kV	ZERDA-KANKROLI	S/C	127	126	0.8	0.0	0.8	
11	400 kV	ZERDA -BHINMAL	S/C	224	285	0.0	0.0	0.0	
12	400 kV	V'CHAL -RIHAND	S/C	974	0	22.5	0.0	22.5	
13	400 kV	RAPP-SHUJALPUR	D/C	61	388	0.0	1.2	-1.2	
14	220 kV	BHANPURA-RANPUR	S/C	23	80	0.1	0.9	-0.9	
15	220 kV	BHANPURA-MORAK	S/C	0	183	0.0	1.7	-1.7	
16	220 kV	MEHGAON-AURAIYA	S/C	93	0	1.2	0.0	1.2	
17	220 kV	MALANPUR-AURAIYA	S/C	51	16	0.4	0.0	0.4	
18	132 kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
						WR-NR	40.9	157.9	-116.9
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	1002	0.0	24.0	-24.0	
2	HVDC	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0	
3	765 kV	SOLAPUR-RAICHUR	D/C	0	2579	0.0	43.5	-43.5	
4	765 kV	WARDHA-NIZAMABAD	D/C	0	3326	0.0	60.5	-60.5	
5	400 kV	KOLHAPUR-KUDGI	D/C	774	49	8.6	0.0	8.6	
6	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0	
7	220 kV	PONDA-AMBEWADI	S/C	0	65	0.0	1.3	-1.3	
8	220 kV	XELDEM-AMBEWADI	S/C	0	94	1.8	0.0	1.8	
						WR-SR	10.5	129.3	-118.8

INTERNATIONAL EXCHANGES

State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange (MU)
BHUTAN	ER	DAGACHU (2 * 63)	0	0	0	0.0
	ER	CHUKA (4 * 84) BIRPARA RECEIPT	0	0	-30	-0.7
	ER	MANGDECHHU (4 x 180) ALIPURDUAR RECEIPT	106	94	95	2.3
	ER	TALA (6 * 170) BINAGURI RECEIPT	139	23	70	1.7
	NER	132KV-SALAKATI - GELEPHU	16	0	-15	-0.4
NEPAL	NER	132KV-RANGIA - DEOTHANG	26	0	-15	-0.4
	NR	132KV-Tanakpur(NH) - Mahendranagar(PG)	0	0	0	-1.3
	ER	132KV-BIHAR - NEPAL	-223	6	-191	-4.6
BANGLADESH	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-272	-210	-243	-5.8
	ER	Bheramara HVDC(Bangladesh)	-936	-242	-588	-14.1
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	71	0	-60	-1.4
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	72	0	-60	-1.4