



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: 13th 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 12.03.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 12-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 12th 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 13-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)	37453	47493	45354	15831	2403	148534
Peak Shortage (MW)	522	0	0	0	42	564
Energy Met (MU)	748	1130	1123	349	41	3391
Hydro Gen (MU)	135	54	91	30	7	317
Wind Gen (MU)	35	61	23	-	-	119
Solar Gen (MU)*	33.56	30.60	87.34	1.47	0.04	153
Energy Shortage (MU)	8.6	0.0	0.0	0.0	0.5	9
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	40554 09:22	53335 11:25	53110 09:26	18474 18:40	2415 18:07	157715 10:39

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	0.035	0.00	0.15	5.71	5.86	75.51	18.63

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	4603	0	91.1	69.7	-0.6	164	0.0
	Haryana	5155	0	92.6	85.0	1.1	209	0.0
	Rajasthan	10958	0	193.0	50.7	-2.2	439	0.0
	Delhi	3419	0	58.8	47.3	-0.6	192	0.0
	UP	12996	0	214.0	105.4	1.4	1118	0.0
	Uttarakhand	1607	0	30.0	17.0	0.0	160	0.0
	HP	1401	0	24.3	19.1	-2.0	21	0.0
	J&K(UT) and Ladakh(UT)	2149	537	41.4	37.9	-1.8	371	8.6
	Chandigarh	208	0	3.3	3.3	0.0	19	0.0
WR	Chhattisgarh	3721	0	81.3	30.5	-0.2	275	0.0
	Gujarat	15067	0	323.3	92.2	4.9	1260	0.0
	MP	10397	0	202.6	100.6	-2.9	406	0.0
	Maharashtra	23089	0	482.4	148.1	-0.1	560	0.0
	Goa	485	0	10.4	10.2	-0.3	31	0.0
	DD	322	0	7.1	6.8	0.3	42	0.0
	DNH	793	0	17.9	17.8	0.1	60	0.0
	Essar steel	775	0	5.0	5.1	-0.1	219	0.0
	Andhra Pradesh	9694	0	197.4	89.6	1.0	621	0.0
SR	Telangana	11856	0	235.4	142.1	0.0	1242	0.0
	Karnataka	12845	0	257.9	83.2	1.0	749	0.0
	Kerala	4015	0	82.9	62.8	1.4	209	0.0
	Tamil Nadu	15248	0	340.6	183.8	0.2	566	0.0
	Pondy	401	0	8.4	8.4	0.0	36	0.0
	Bihar	4053	0	69.3	63.9	-1.8	200	0.0
ER	DVC	2777	0	56.9	-40.6	0.0	250	0.0
	Jharkhand	1175	0	22.2	17.8	-0.9	125	0.0
	Odisha	3766	0	75.8	4.3	-0.7	240	0.0
	West Bengal	6982	0	123.8	33.7	0.0	425	0.0
	Sikkim	124	0	1.4	1.8	-0.4	20	0.0
	Arunachal Pradesh	118	1	2.0	2.7	-0.7	15	0.0
NER	Assam	1401	21	23.3	18.7	0.1	96	0.3
	Manipur	180	2	2.6	2.5	0.1	19	0.0
	Meghalaya	376	0	5.4	4.2	0.2	55	0.1
	Mizoram	101	0	1.7	1.5	-0.1	9	0.0
	Nagaland	122	2	2.1	2.1	-0.1	11	0.0
	Tripura	234	1	3.8	2.4	-0.1	31	0.0

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	3.0	-8.5	-17.1
Day peak (MW)	317.0	-535.0	-1077.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	174.6	-260.4	196.7	-120.6	9.1	-0.7
Actual(MU)	153.1	-260.8	216.5	-129.7	9.5	-11.5
O/D/U/D(MU)	-21.5	-0.4	19.8	-9.0	0.4	-10.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	5876	13952	6212	1170	790	28000
State Sector	21175	16047	7915	5262	11	50410
Total	27051	29998	14127	6432	802	78410

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	315	1134	562	479	11	2501
Lignite	19	14	51	0	0	84
Hydro	135	54	91	30	7	317
Nuclear	24	37	45	0	0	105
Gas, Naptha & Diesel	23	46	18	0	18	105
RES (Wind, Solar, Biomass & Others)	95	106	148	2	0	350
Total	611	1390	914	510	37	3463

Share of RES in total generation (%)	15.56	7.61	16.14	0.30	0.11	10.11
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	41.56	14.13	30.97	6.12	19.65	22.30

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.065
Based on State Max Demands	1.094

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: 13-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	501	0.0	5.5	-5.5	
2	HVDC	PUSAULI B/B	S/C	0	249	0.0	6.3	-6.3	
3	765 kV	GAYA-VARANASI	D/C	75	636	0.0	8.2	-8.2	
4	765 kV	SASARAM-FATEHPUR	S/C	95	325	0.0	3.8	-3.8	
5	765 kV	GAYA-BALIA	S/C	0	379	0.0	6.0	-6.0	
6	400 kV	PUSAULI-VARANASI	S/C	0	212	0.0	4.4	-4.4	
7	400 kV	PUSAULI-ALLAHABAD	S/C	0	108	0.0	1.7	-1.7	
8	400 kV	MUZAFFARPUR-GORAKHPUR	D/C	111	435	0.0	5.0	-5.0	
9	400 kV	PATNA-BALIA	Q/C	0	828	0.0	13.5	-13.5	
10	400 kV	BIHARSHARIFF-BALIA	D/C	12	256	0.0	3.5	-3.5	
11	400 kV	MOTIHARI-GORAKHPUR	D/C	0	340	0.0	5.9	-5.9	
12	400 kV	BIHARSHARIFF-VARANASI	D/C	204	193	0.0	0.4	-0.4	
13	220 kV	PUSAULI-SAHUPURI	S/C	0	131	0.0	2.1	-2.1	
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	0.3	0.0	0.3	
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	0.3	66.4	-66.0
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1778	0	32.7	0.0	32.7	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	380	523	0.0	0.2	-0.2	
3	765 kV	JHARSUGUDA-DURG	D/C	12	209	0.0	1.9	-1.9	
4	400 kV	JHARSUGUDA-RAIGARH	Q/C	152	246	0.0	2.2	-2.2	
5	400 kV	RANCHI-SIPAT	D/C	191	153	0.8	0.0	0.8	
6	220 kV	BUDHIPADAR-RAIGARH	S/C	1	105	0.0	1.3	-1.3	
7	220 kV	BUDHIPADAR-KORBA	D/C	97	0	1.3	0.0	1.3	
						ER-WR	34.8	5.6	29.2
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0	683	0.0	15.9	-15.9	
2	HVDC	TALCHER-KOLAR BIPOLE	D/C	0	2475	0.0	51.3	-51.3	
3	765 kV	ANGUL-SRIKAKULAM	D/C	0	3335	0.0	67.4	-67.4	
4	400 kV	TALCHER-IC	D/C	0	1049	0.0	12.9	-12.9	
5	220 kV	BALIMELA-UPPER-SILERRU	S/C	1	0	0.0	0.0	0.0	
						ER-SR	0.0	134.6	-134.6
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	D/C	136	346	0.5	2.7	-2.2	
2	400 kV	ALIPURDUAR-BONGAIGAON	D/C	227	316	0.5	1.3	-0.8	
3	220 kV	ALIPURDUAR-SALAKATI	D/C	40	77	0.0	0.5	-0.5	
						ER-NER	1.0	4.5	-3.5
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	-	469	0	6.5	0.0	6.5	
						NER-NR	6.5	0.0	6.5
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	D/C	0	472	0.0	8.9	-8.9	
2	HVDC	V'CHAL B/B	D/C	448	0	11.6	0.0	11.6	
3	HVDC	APL -MHG	D/C	0	1270	0.0	26.7	-26.7	
4	765 kV	GWALIOR-AGRA	D/C	0	2207	0.0	34.6	-34.6	
5	765 kV	PHAGI-GWALIOR	D/C	0	1440	0.0	23.5	-23.5	
6	765 kV	JABALPUR-ORAI	D/C	0	740	0.0	21.4	-21.4	
7	765 kV	GWALIOR-ORAI	S/C	662	0	7.6	0.0	7.6	
8	765 kV	SATNA-ORAI	S/C	0	1286	0.0	25.1	-25.1	
9	765 kV	CHITORGARH-BANASKANTHA	D/C	41	881	0.0	7.2	-7.2	
10	400 kV	ZERDA-KANKROLI	S/C	159	70	1.4	0.0	1.4	
11	400 kV	ZERDA -BHINMAL	S/C	421	96	4.1	0.0	4.1	
12	400 kV	V'CHAL -RIHAND	S/C	974	0	21.0	0.0	21.0	
13	400 kV	RAPP-SHUJALPUR	D/C	183	295	0.8	0.0	0.8	
14	220 kV	BHANPURA-RANPUR	S/C	40	68	0.1	1.3	-1.2	
15	220 kV	BHANPURA-MORAK	S/C	5	126	0.0	1.8	-1.8	
16	220 kV	MEHGAON-AURAIYA	S/C	102	4	1.1	0.0	1.1	
17	220 kV	MALANPUR-AURAIYA	S/C	68	24	0.5	0.0	0.4	
18	132 kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
						WR-NR	48.1	150.3	-102.1
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	1012	0.0	20.8	-20.8	
2	HVDC	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0	
3	765 kV	SOLAPUR-RAICHUR	D/C	0	2576	0.0	44.8	-44.8	
4	765 kV	WARDHA-NIZAMABAD	D/C	0	3452	0.0	68.3	-68.3	
5	400 kV	KOLHAPUR-KUDGI	D/C	748	0	11.0	0.0	11.0	
6	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0	
7	220 kV	PONDA-AMBEWADI	S/C	0	67	0.0	1.3	-1.3	
8	220 kV	XELDEM-AMBEWADI	S/C	0	96	1.8	0.0	1.8	
						WR-SR	12.8	135.2	-122.4

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	-25	-0.6
	ER	MANGDECHHU (4 x 180) ALIPURDUAR RECEIPT	103	102	100	2.4
	ER	TALA (6 * 170) BINAGURI RECEIPT	98	68	71	1.7
	NER	132KV-SALAKATI - GELEPHU	27	0	-13	-0.3
	NER	132KV-RANGIA - DEOTHANG	23	0	-10	-0.3
NEPAL	NR	132KV-Tanakpur(NH) - Mahendranagar(PG)	0	0	0	-1.0
	ER	132KV-BIHAR - NEPAL	-215	-1	-72	-1.7
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-268	-200	-244	-5.9
BANGLADESH	ER	Bheramara HVDC(Bangladesh)	-944	-262	-601	-14.4
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	67	0	-55	-1.3
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	66	0	-55	-1.3