



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: 16th 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., डोंगतेह, 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 15.03.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 15-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 15th 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 16-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)	36072	45868	41756	18198	2364	144258
Peak Shortage (MW)	529	0	0	26	35	590
Energy Met (MU)	763	1108	1064	340	40	3316
Hydro Gen (MU)	143	41	67	31	5	287
Wind Gen (MU)	17	72	45	-	-	134
Solar Gen (MU)*	34.08	27.70	94.26	1.72	0.03	158
Energy Shortage (MU)	10.9	0.0	0.0	0.1	1.2	12
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	38341 19:24	51426 11:04	48424 09:29	17785 18:57	2428 18:33	153058 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	0.037	0.00	0.19	3.37	3.55	73.75	22.70

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	4551	0	89.2	60.1	-0.4	116	0.0	
	Haryana	4959	0	95.8	83.0	1.1	151	0.0	
	Rajasthan	11874	0	205.8	52.2	-1.2	732	0.0	
	Delhi	3322	0	54.9	44.9	-1.3	140	0.0	
	UP	12406	0	214.4	102.9	2.3	847	0.0	
	Uttarakhand	1687	0	31.3	8.8	0.6	193	0.0	
	HP	1421	0	22.7	16.3	-1.0	90	0.0	
	J&K(UT) and Ladakh(UT)	2424	606	46.2	39.1	-1.5	263	10.9	
	Chandigarh	187	0	3.0	3.1	-0.1	22	0.0	
	WR	Chhattisgarh	3529	0	80.5	29.8	-1.1	263	0.0
Gujarat		14737	0	321.0	86.5	2.4	589	0.0	
MP		10323	0	200.1	100.4	-1.6	462	0.0	
Maharashtra		21923	0	466.7	143.4	0.3	436	0.0	
Goa		433	0	9.6	8.9	0.0	43	0.0	
DD		296	0	6.8	6.5	0.3	32	0.0	
DNH		776	0	18.4	18.4	0.0	38	0.0	
Essar steel		739	0	5.3	5.3	0.0	239	0.0	
SR		Andhra Pradesh	9527	0	196.1	80.6	0.6	745	0.0
		Telangana	11714	0	234.4	127.7	0.8	1034	0.0
	Karnataka	11623	0	239.0	84.0	1.1	563	0.0	
	Kerala	3869	0	75.6	63.5	1.5	218	0.0	
	Tamil Nadu	13300	0	311.7	175.5	-7.2	595	0.0	
	Puducherry	345	0	7.6	7.5	0.1	35	0.0	
	ER	Bihar	3955	0	66.8	65.3	-1.5	268	0.0
DVC		2983	0	62.2	-38.2	1.1	357	0.0	
Jharkhand		1097	0	21.0	14.9	-1.5	172	0.1	
Odisha		3921	0	75.4	4.0	0.2	306	0.0	
West Bengal		6363	0	113.1	31.3	-0.1	251	0.0	
Sikkim		124	0	1.2	1.6	-0.3	27	0.0	
NER	Arunachal Pradesh	123	1	2.2	2.3	-0.2	11	0.0	
	Assam	1372	14	22.3	18.6	0.1	103	1.0	
	Manipur	180	2	2.4	2.4	0.0	21	0.0	
	Meghalaya	322	0	5.8	4.2	0.3	70	0.1	
	Mizoram	107	1	1.7	1.2	0.3	16	0.0	
	Nagaland	126	1	2.1	2.0	0.0	16	0.0	
	Tripura	240	0	3.9	2.7	0.1	34	0.0	

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	3.7	-9.5	-16.8
Day peak (MW)	394.7	-544.9	-1085.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	153.2	-226.9	171.7	-102.7	4.8	0.0
Actual(MU)	153.4	-215.0	179.1	-125.8	7.4	-0.9
O/D/U/D(MU)	0.2	11.9	7.4	-23.1	2.7	-0.9

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	5807	16048	4552	460	727	27595
State Sector	19955	16713	8845	4802	11	50326
Total	25762	32761	13397	5262	738	77920

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	337	1064	520	468	10	2399
Lignite	22	15	47	0	0	84
Hydro	143	41	67	31	5	287
Nuclear	24	37	57	0	0	118
Gas, Naptha & Diesel	30	65	18	0	23	135
RES (Wind, Solar, Biomass & Others)	77	110	179	2	0	367
Total	634	1331	887	501	38	3391

Share of RES in total generation (%)	12.12	8.25	20.15	0.35	0.08	10.83
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	38.53	14.13	34.10	6.54	12.39	22.77

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.035
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: 16-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	251	0.0	6.2	-6.2	
3	765 kV	GAYA-VARANASI	D/C	0	745	0.0	9.2	-9.2	
4	765 kV	SASARAM-FATEHPUR	S/C	0	448	0.0	4.5	-4.5	
5	765 kV	GAYA-BALIA	S/C	0	492	0.0	8.0	-8.0	
6	400 kV	PUSAULI-VARANASI	S/C	0	206	0.0	4.2	-4.2	
7	400 kV	PUSAULI-ALLAHABAD	S/C	0	132	0.0	1.8	-1.8	
8	400 kV	MUZAFFARPUR-GORAKHPUR	D/C	0	677	0.0	8.5	-8.5	
9	400 kV	PATNA-BALIA	Q/C	0	930	0.0	16.1	-16.1	
10	400 kV	BIHARSHARIFF-BALIA	D/C	0	333	0.0	4.7	-4.7	
11	400 kV	MOTIHARI-GORAKHPUR	D/C	0	337	0.0	5.8	-5.8	
12	400 kV	BIHARSHARIFF-VARANASI	D/C	84	272	0.0	1.6	-1.6	
13	220 kV	PUSAULI-SAHUPURI	S/C	0	154	0.0	2.7	-2.7	
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	73.4	-73.1
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1173	0	20.7	0.0	20.7	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	568	307	1.7	0.0	1.7	
3	765 kV	JHARSUGUDA-DURG	D/C	0	212	0.0	3.4	-3.4	
4	400 kV	JHARSUGUDA-RAIGARH	Q/C	72	243	0.0	2.1	-2.1	
5	400 kV	RANCHI-SIPAT	D/C	192	111	0.8	0.0	0.8	
6	220 kV	BUDHIPADAR-RAIGARH	S/C	7	82	0.0	0.9	-0.9	
7	220 kV	BUDHIPADAR-KORBA	D/C	89	0	1.4	0.0	1.4	
						ER-WR	24.6	6.4	18.3
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0	687	0.0	15.9	-15.9	
2	HVDC	TALCHER-KOLAR BIPOLE	D/C	0	2470	0.0	46.7	-46.7	
3	765 kV	ANGUL-SRIKAKULAM	D/C	0	3229	0.0	60.7	-60.7	
4	400 kV	TALCHER-IC	D/C	514	680	0.0	4.9	-4.9	
5	220 kV	BALIMELA-UPPER-SILERRU	S/C	1	0	0.0	0.0	0.0	
						ER-SR	0.0	123.3	-123.3
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	D/C	155	109	1.4	0.0	1.4	
2	400 kV	ALIPURDUAR-BONGAIGAON	D/C	246	134	2.1	0.0	2.1	
3	220 kV	ALIPURDUAR-SALAKATI	D/C	54	27	0.5	0.0	0.5	
						ER-NER	3.9	0.0	3.9
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	-	468	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	151	0.0	7.2	-7.2	
2	HVDC	V'CHAL B/B	D/C	448	0	8.3	0.0	8.3	
3	HVDC	APL -MHG	D/C	0	1081	0.0	26.7	-26.7	
4	765 kV	GWALIOR-AGRA	D/C	0	1963	0.0	34.1	-34.1	
5	765 kV	PHAGI-GWALIOR	D/C	0	1360	0.0	18.8	-18.8	
6	765 kV	JABALPUR-ORAI	D/C	0	780	0.0	21.8	-21.8	
7	765 kV	GWALIOR-ORAI	S/C	473	0	8.9	0.0	8.9	
8	765 kV	SATNA-ORAI	S/C	0	1185	0.0	24.0	-24.0	
9	765 kV	CHITORGARH-BANASKANTHA	D/C	214	576	0.0	2.9	-2.9	
10	400 kV	ZERDA-KANKROLI	S/C	146	42	1.3	0.0	1.3	
11	400 kV	ZERDA -BHINMAL	S/C	251	94	1.8	0.0	1.8	
12	400 kV	V'CHAL -RIHAND	S/C	972	0	22.4	0.0	22.4	
13	400 kV	RAPP-SHUJALPUR	D/C	103	274	0.0	0.8	-0.8	
14	220 kV	BHANPURA-RANPUR	S/C	8	67	0.1	0.9	-0.8	
15	220 kV	BHANPURA-MORAK	S/C	0	142	0.0	1.5	-1.5	
16	220 kV	MEHGAON-AURAIYA	S/C	102	0	1.3	0.0	1.3	
17	220 kV	MALANPUR-AURAIYA	S/C	63	9	0.6	0.0	0.5	
18	132 kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
						WR-NR	44.5	138.7	-94.1
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	1006	0.0	23.8	-23.8	
2	HVDC	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0	
3	765 kV	SOLAPUR-RAICHUR	D/C	0	2515	0.0	36.1	-36.1	
4	765 kV	WARDHA-NIZAMABAD	D/C	0	3017	0.0	54.2	-54.2	
5	400 kV	KOLHAPUR-KUDGI	D/C	838	0	11.5	0.0	11.5	
6	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0	
7	220 kV	PONDA-AMBEWADI	S/C	1	56	0.0	0.8	-0.8	
8	220 kV	XELDEM-AMBEWADI	S/C	0	94	1.7	0.0	1.7	
						WR-SR	13.2	114.8	-101.6

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	-29	-0.7
	ER	MANGDECHHU (4 x 180) ALIPURDUAR RECEIPT	171	113	126	3.0
	ER	TALA (6 * 170) BINAGURI RECEIPT	104	66	74	1.8
	NER	132KV-SALAKATI - GELEPHU	16	0	-13	-0.3
NEPAL	NER	132KV-RANGIA - DEOTHANG	15	0	-6	-0.1
	NR	132KV-Tanakpur(NH) - Mahendranagar(PG)	0	0	0	-1.2
	ER	132KV-BIHAR - NEPAL	-205	3	-102	-2.4
BANGLADESH	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-280	-220	-245	-5.9
	ER	Bheramara HVDC(Bangladesh)	-932	-248	-588	-14.1
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	76	0	-57	-1.4
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	77	0	-57	-1.4