



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: 09th Mar 2020

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 08.03.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 08-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 08th Mar 2020, is available at the NLDC website.

धन्यवाद,

पावर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड
राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली

Report for previous day

Date of Reporting 09-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)	36208	46894	40918	15250	2267	141537
Peak Shortage (MW)	551	0	0	0	70	621
Energy Met (MU)	790	1150	1037	332	39	3349
Hydro Gen (MU)	135	42	74	30	5	287
Wind Gen (MU)	13	36	19	-	-	68
Solar Gen (MU)*	45.07	28.30	76.68	1.62	0.03	152
Energy Shortage (MU)	11.2	0.1	0.0	0.0	1.7	13
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	39242 09:22	53362 11:25	47277 09:26	17153 18:40	2256 18:07	153458 08:29

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	0.036	0.00	0.00	4.73	4.73	72.35	22.92

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	4846	0	93.8	64.7	-0.7	213	0.0
	Haryana	4703	0	93.2	68.6	0.7	282	0.0
	Rajasthan	11159	0	201.1	51.2	-2.3	239	0.0
	Delhi	3427	0	58.2	45.3	-0.2	237	0.0
	UP	12961	0	232.1	112.8	-0.4	880	0.0
	Uttarakhand	1892	0	33.8	17.8	1.2	252	0.0
	HP	1612	0	27.5	20.1	0.2	143	0.0
	J&K(UT) and Ladakh(UT)	2289	572	47.4	42.5	-1.4	221	11.2
	Chandigarh	190	0	3.1	3.1	0.0	18	0.0
WR	Chhattisgarh	3619	0	81.2	43.7	-0.7	772	0.0
	Gujarat	15557	0	335.6	113.3	4.0	814	0.0
	MP	11427	0	221.0	108.3	-2.9	636	0.0
	Maharashtra	22251	0	471.5	150.7	-2.6	997	0.0
	Goa	441	0	9.2	9.0	-0.3	128	0.1
	DD	324	0	7.4	6.9	0.5	44	0.0
	DNH	805	0	19.0	19.0	0.0	38	0.0
	Essar steel	799	0	5.4	5.3	0.1	266	0.0
	SR	Andhra Pradesh	8760	0	182.4	83.0	-0.2	339
Telangana		11301	0	226.7	126.4	-0.3	577	0.0
Karnataka		11923	0	237.4	80.5	0.4	714	0.0
Kerala		3694	0	73.9	60.2	1.2	215	0.0
Tamil Nadu		13183	0	309.7	172.1	-0.8	430	0.0
Pondy		331	0	7.4	7.7	-0.3	36	0.0
ER	Bihar	3814	0	71.0	63.8	-1.0	605	0.0
	DVC	2892	0	60.8	-33.7	0.5	422	0.0
	Jharkhand	1253	0	22.5	15.1	-1.3	119	0.0
	Odisha	3677	0	71.4	7.9	0.2	411	0.0
	West Bengal	5884	0	104.9	23.8	-0.6	320	0.0
	Sikkim	99	0	1.3	1.5	-0.2	16	0.0
NER	Arunachal Pradesh	125	1	2.3	2.3	-0.2	15	0.0
	Assam	1276	36	21.0	17.2	0.3	71	1.5
	Manipur	178	1	2.7	2.6	0.0	17	0.0
	Meghalaya	326	0	5.7	3.8	0.2	76	0.1
	Mizoram	105	1	1.7	1.5	0.0	16	0.0
	Nagaland	128	1	2.2	2.0	0.1	10	0.0
Tripura	220	0	3.4	1.6	-0.2	26	0.0	

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	0.8	-9.2	-16.6
Day peak (MW)	321.3	-505.5	-1024.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	157.4	-237.8	166.3	-97.1	11.4	0.1
Actual(MU)	140.7	-242.4	193.2	-111.1	13.8	-5.8
O/D/U/D(MU)	-16.7	-4.6	26.9	-14.1	2.5	-6.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	5739	12795	5462	1395	1090	26481
State Sector	17895	13548	7735	5752	11	44941
Total	23634	26342	13197	7147	1101	71421

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	380	1170	536	446	9	2541
Lignite	17	17	46	0	0	79
Hydro	135	42	74	30	5	287
Nuclear	24	37	45	0	0	106
Gas, Naptha & Diesel	27	62	17	0	15	123
RES (Wind, Solar, Biomass & Others)	84	74	134	2	0	292
Total	668	1401	851	477	30	3428

Share of RES in total generation (%)	12.62	5.14	15.75	0.34	0.10	8.52
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	36.50	10.77	29.71	6.57	17.68	19.96

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.038
Based on State Max Demands	1.091

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: 09-Mar-20

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	6.2	-6.2	
3	765 kV	GAYA-VARANASI	D/C	158	436	0.0	3.5	-3.5	
4	765 kV	SASARAM-FATEHPUR	S/C	134	246	0.0	1.2	-1.2	
5	765 kV	GAYA-BALIA	S/C	0	280	0.0	4.7	-4.7	
6	400 kV	PUSAULI-VARANASI	S/C	0	225	0.0	4.7	-4.7	
7	400 kV	PUSAULI-ALLAHABAD	S/C	0	97	0.0	1.3	-1.3	
8	400 kV	MUZAFFARPUR-GORAKHPUR	D/C	269	252	0.0	0.9	-0.9	
9	400 kV	PATNA-BALIA	Q/C	0	661	0.0	9.5	-9.5	
10	400 kV	BIHARSHARIFF-BALIA	D/C	61	228	0.0	2.5	-2.5	
11	400 kV	MOTIHARI-GORAKHPUR	D/C	0	278	0.0	4.9	-4.9	
12	400 kV	BIHARSHARIFF-VARANASI	D/C	236	145	1.1	0.0	1.1	
13	220 kV	PUSAULI-SAHUPURI	S/C	0	158	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	0.2	0.0	0.2	
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	1.2	42.3	-41.1
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1663	0	31.2	0.0	31.2	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	648	233	3.6	0.0	3.6	
3	765 kV	JHARSUGUDA-DURG	D/C	173	220	0.0	1.9	-1.9	
4	400 kV	JHARSUGUDA-RAIGARH	Q/C	133	287	0.0	1.8	-1.8	
5	400 kV	RANCHI-SIPAT	D/C	257	79	1.4	0.0	1.4	
6	220 kV	BUDHIPADAR-RAIGARH	S/C	17	77	0.0	0.7	-0.7	
7	220 kV	BUDHIPADAR-KORBA	D/C	110	0	1.3	0.0	1.3	
						ER-WR	37.5	4.4	33.2
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0	690	0.0	15.6	-15.6	
2	HVDC	TALCHER-KOLAR BIPOLE	D/C	0	2475	0.0	49.8	-49.8	
3	765 kV	ANGUL-SRIKAKULAM	D/C	0	3067	0.0	61.4	-61.4	
4	400 kV	TALCHER-IC	D/C	580	932	0.0	6.5	-6.5	
5	220 kV	BALIMELA-UPPER-SILERRU	S/C	1	0	0.0	0.0	0.0	
						ER-SR	0.0	126.7	-126.7
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	D/C	0	523	0.0	9.1	-9.1	
2	400 kV	ALIPURDUAR-BONGAIGAON	D/C	0	771	0.0	14.7	-14.7	
3	220 kV	ALIPURDUAR-SALAKATI	D/C	0	145	0.0	2.5	-2.5	
						ER-NER	0.0	26.3	-26.3
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	-	0	503	0.0	12.1	-12.1	
						NER-NR	0.0	12.1	-12.1
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	D/C	0	303	0.0	0.3	-0.3	
2	HVDC	V'CHAL B/B	D/C	449	0	12.1	0.0	12.1	
3	HVDC	APL -MHG	D/C	0	1455	0.0	28.6	-28.6	
4	765 kV	GWALIOR-AGRA	D/C	0	2390	0.0	38.8	-38.8	
5	765 kV	PHAGI-GWALIOR	D/C	0	1293	0.0	19.5	-19.5	
6	765 kV	JABALPUR-ORAI	D/C	0	837	0.0	24.3	-24.3	
7	765 kV	GWALIOR-ORAI	S/C	521	0	9.4	0.0	9.4	
8	765 kV	SATNA-ORAI	S/C	0	1406	0.0	28.1	-28.1	
9	765 kV	CHITORGARH-BANASKANTHA	D/C	353	567	2.5	2.2	0.3	
10	400 kV	ZERDA-KANKROLI	S/C	191	37	1.9	0.0	1.9	
11	400 kV	ZERDA -BHINMAL	S/C	305	179	1.0	0.0	1.0	
12	400 kV	V'CHAL -RIHAND	S/C	971	0	22.6	0.0	22.6	
13	400 kV	RAPP-SHUJALPUR	D/C	205	341	0.0	0.2	-0.2	
14	220 kV	BHANPURA-RANPUR	S/C	12	74	0.0	1.2	-1.2	
15	220 kV	BHANPURA-MORAK	S/C	0	147	0.0	2.0	-2.0	
16	220 kV	MEHGAON-AURAIYA	S/C	87	20	0.7	0.0	0.7	
17	220 kV	MALANPUR-AURAIYA	S/C	59	38	0.3	0.1	0.2	
18	132 kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
						WR-NR	50.5	145.3	-94.8
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	1006	0.0	21.4	-21.4	
2	HVDC	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0	
3	765 kV	SOLAPUR-RAICHUR	D/C	0	2728	0.0	43.7	-43.7	
4	765 kV	WARDHA-NIZAMABAD	D/C	2944	3123	0.0	58.5	-58.5	
5	400 kV	KOLHAPUR-KUDGI	D/C	903	0	10.8	0.0	10.8	
6	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0	
7	220 kV	PONDA-AMBEWADI	S/C	2	56	0.0	0.7	-0.7	
8	220 kV	XELDEM-AMBEWADI	S/C	0	93	1.7	0.0	1.7	
						WR-SR	12.5	124.3	-111.8

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	-52	-1.2
	ER	MANGDECHHU (4 x 180) ALIPURDUAR RECEIPT	104	93	99	2.4
	ER	TALA (6 * 170) BINAGURI RECEIPT	109	0	2	0.1
	NER	132KV-SALAKATI - GELEPHU	16	0	-8	-0.2
NEPAL	NER	132KV-RANGIA - DEOTHANG	21	0	-7	-0.2
	NR	132KV-Tanakpur(NH) - Mahendranagar(PG)	0	0	0	-1.2
	ER	132KV-BIHAR - NEPAL	-178	-4	-87	-2.1
BANGLADESH	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-269	-201	-246	-5.9
	ER	Bheramara HVDC(Bangladesh)	-902	-266	-595	-14.3
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	61	0	-47	-1.1
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	61	0	-47	-1.1