



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: 05th 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 04.03.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 04-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 04th Mar 2020, is available at the NLDC website.

धन्यवाद,

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)	40876	49707	45593	16024	2395	154595
Peak Shortage (MW)	561	0	0	0	55	616
Energy Met (MU)	880	1208	1125	338	39	3591
Hydro Gen (MU)	141	33	110	28	6	317
Wind Gen (MU)	16	66	33	0	0	115
Solar Gen (MU)*	38.90	29.20	88.10	1.50	0.04	158
Energy Shortage (MU)	9.0	0.0	0.0	0.0	1.0	10.0
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	45268 09:22	56260 11:25	52108 09:26	17124 18:40	2424 18:07	168894 09:25

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	5426	0	114.0	72.0	-1.7	40	0.0
	Haryana	5853	0	114.0	84.2	-0.8	282	0.0
	Rajasthan	13381	0	225.9	62.6	-2.6	259	0.0
	Delhi	3457	0	63.9	48.4	0.4	173	0.1
	UP	12770	0	250.0	122.1	-0.9	480	0.0
	Uttarakhand	1860	0	35.1	15.7	0.6	152	0.0
	HP	1639	0	28.2	21.0	-0.1	159	0.0
	J&K(UT) and Ladakh(UT)	2407	602	45.4	38.2	-0.4	537	8.9
Chandigarh	212	0	3.4	3.3	0.1	22	0.0	
WR	Chhattisgarh	3758	0	84.3	38.6	-0.8	166	0.0
	Gujarat	15860	0	356.5	103.8	4.4	501	0.0
	MP	12111	0	232.1	111.8	-2.7	322	0.0
	Maharashtra	23251	0	490.1	155.2	-2.1	579	0.0
	Goa	524	0	11.0	10.8	-0.3	33	0.0
	DD	339	0	7.7	7.4	0.3	33	0.0
	DNH	819	0	19.2	19.2	0.0	37	0.0
	Essar steel	772	0	7.5	6.9	0.6	280	0.0
SR	Andhra Pradesh	10005	0	201.2	75.6	0.3	600	0.0
	Telangana	12658	0	254.1	134.8	0.2	893	0.0
	Karnataka	12230	0	244.5	70.6	-0.1	604	0.0
	Kerala	3860	0	80.0	60.4	1.8	202	0.0
	Tamil Nadu	15502	0	337.3	190.4	1.8	605	0.0
	Pondy	395	0	8.1	8.3	-0.1	38	0.0
ER	Bihar	4018	0	73.5	68.4	0.3	330	0.0
	DVC	2955	0	59.7	-35.0	0.4	315	0.0
	Jharkhand	1120	0	21.7	14.5	-1.9	125	0.0
	Odisha	3518	0	69.9	-1.0	-0.4	320	0.0
	West Bengal	6283	0	111.4	27.6	-0.6	255	0.0
	Sikkim	154	0	1.7	1.8	-0.1	33	0.0
NER	Arunachal Pradesh	119	1	2.1	2.4	-0.3	27	0.0
	Assam	1348	33	21.3	17.6	0.0	80	0.9
	Manipur	200	1	2.8	2.6	0.1	25	0.0
	Meghalaya	359	0	5.5	3.5	0.3	55	0.1
	Mizoram	101	1	1.7	1.5	0.0	22	0.0
	Nagaland	124	3	2.2	1.9	0.2	20	0.0
Tripura	231	0	3.5	1.9	-0.1	93	0.0	

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	2.2	-10.3	-16.0
Day peak (MW)	389.0	-523.3	-1021.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	186.4	-270.9	182.1	-108.3	10.6	-0.1
Actual(MU)	179.9	-274.7	201.9	-120.7	12.8	-0.8
O/D/U/D(MU)	-6.5	-3.8	19.8	-12.4	2.2	-0.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	5949	11580	6472	800	1090	25891
State Sector	15955	13331	7945	5332	11	42574
Total	21904	24910	14417	6132	1101	68464

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	426	1221	559	464	10	2679
Lignite	19	16	44	0	0	79
Hydro	141	33	110	28	6	317
Nuclear	24	37	45	0	0	105
Gas, Naptha & Diesel	33	70	17	0	15	136
RES (Wind, Solar, Biomass & Others)	81	110	159	2	0	351
Total	723	1486	933	493	31	3667

Share of RES in total generation (%)	11.20	7.39	17.03	0.30	0.13	9.58
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	33.95	12.05	33.57	6.02	18.00	21.08

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.025
Based on State Max Demands	1.064

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: 05-Mar-2020

SI 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	500	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	10	689	0.0	6.6	-6.6
4	765 kV	SASARAM-FATEHPUR	S/C	113	271	0.0	1.6	-1.6
5	765 kV	GAYA-BALIA	S/C	0	357	0.0	5.6	-5.6
6	400 kV	PUSAULI-VARANASI	S/C	0	250	0.0	4.7	-4.7
7	400 kV	PUSAULI-ALLAHABAD	S/C	0	104	0.0	1.3	-1.3
8	400 kV	MUZAFFARPUR-GORAKHPUR	D/C	217	451	0.0	1.0	-1.0
9	400 kV	PATNA-BALIA	Q/C	0	810	0.0	8.0	-8.0
10	400 kV	BIHARSHARIFF-BALIA	D/C	66	296	0.0	2.2	-2.2
11	400 kV	MOTIHARI-GORAKHPUR	D/C	0	552	0.0	9.5	-9.5
12	400 kV	BIHARSHARIFF-VARANASI	D/C	198	242	0.5	0.0	0.5
13	220 kV	PUSAULI-SAHUPURI	S/C	0	159	0.0	2.9	-2.9
14	132 kV	SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	S/C	30	0	0.4	0.0	0.4
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						0.9	49.6	-48.7
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1549	0	29.5	0.0	29.5
2	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	524	165	5.9	0.0	5.9
3	765 kV	JHARSUGUDA-DURG	D/C	138	167	0.0	0.3	-0.3
4	400 kV	JHARSUGUDA-RAIGARH	Q/C	98	287	0.0	2.7	-2.7
5	400 kV	RANCHI-SIPAT	D/C	204	72	1.8	0.0	1.8
6	220 kV	BUDHIPADAR-RAIGARH	S/C	17	104	0.0	1.3	-1.3
7	220 kV	BUDHIPADAR-KORBA	D/C	121	0	1.9	0.0	1.9
ER-WR						39.1	4.3	34.8
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0	694	0.0	14.2	-14.2
2	HVDC	TALCHER-KOLAR BIPOLE	D/C	0	2475	0.0	51.6	-51.6
3	765 kV	ANGUL-SRIKAKULAM	D/C	0	3266	0.0	65.5	-65.5
4	400 kV	TALCHER-I/C	D/C	0	983	0.0	8.5	-8.5
5	220 kV	BALIMELA-UPPER-SILERRU	S/C	1	0	0.0	0.0	0.0
ER-SR						0.0	131.3	-131.3
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	D/C	0	601	0.0	8.8	-8.8
2	400 kV	ALIPURDUAR-BONGAIGAON	D/C	0	778	0.0	13.8	-13.8
3	220 kV	ALIPURDUAR-SALAKATI	D/C	0	142	0.0	2.3	-2.3
ER-NER						0.0	24.9	-24.9
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	-	0	502	0.0	11.2	-11.2
NER-NR						0.0	11.2	-11.2
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	D/C	0	650	0.0	7.1	-7.1
2	HVDC	V'CHAL B/B	D/C	451	0	12.1	0.0	12.1
3	HVDC	APL -MHG	D/C	0	1551	0.0	33.7	-33.7
4	765 kV	GWALIOR-AGRA	D/C	0	2282	0.0	42.0	-42.0
5	765 kV	PHAGI-GWALIOR	D/C	0	1415	0.0	20.3	-20.3
6	765 kV	JABALPUR-ORAI	D/C	0	811	0.0	27.7	-27.7
7	765 kV	GWALIOR-ORAI	S/C	554	0	11.7	0.0	11.7
8	765 kV	SATNA-ORAI	S/C	0	1379	0.0	29.8	-29.8
9	765 kV	CHITORGARH-BANASKANTHA	D/C	187	701	0.0	6.7	-6.7
10	400 kV	ZERDA-KANKROLI	S/C	154	89	0.8	0.0	0.8
11	400 kV	ZERDA -BHINMAL	S/C	141	221	0.0	0.8	-0.8
12	400 kV	V'CHAL -RIHAND	S/C	969	0	22.4	0.0	22.4
13	400 kV	RAPP-SHUJALPUR	D/C	184	208	0.0	0.6	-0.6
14	220 kV	BHANPURA-RANPUR	S/C	12	91	0.2	0.7	-0.5
15	220 kV	BHANPURA-MORAK	S/C	0	134	0.0	1.6	-1.6
16	220 kV	MEHGAON-AURAIYA	S/C	84	13	0.7	0.0	0.7
17	220 kV	MALANPUR-AURAIYA	S/C	46	22	0.1	0.1	0.0
18	132 kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0
WR-NR						48.0	171.1	-123.1
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	552	0.0	12.5	-12.5
2	HVDC	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0
3	765 kV	SOLAPUR-RAICHUR	D/C	0	2634	0.0	47.7	-47.7
4	765 kV	WARDHA-NIZAMABAD	D/C	0	3500	0.0	67.3	-67.3
5	400 kV	KOLHAPUR-KUDGI	D/C	838	0	12.4	0.0	12.4
6	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0
7	220 kV	PONDA-AMBEWADI	S/C	1	79	0.0	1.4	-1.4
8	220 kV	XELDEM-AMBEWADI	S/C	0	92	1.7	0.0	1.7
WR-SR						14.1	128.9	-114.8

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	-41	-1.0
	ER	MANGDECHHU (4 x 180) ALIPURDUAR RECEIPT	181	90	91	2.2
	ER	TALA (6 * 170) BINAGURI RECEIPT	102	21	56	1.4
	NER	132KV-SALAKATI - GELEPHU	16	0	-5	-0.1
	NER	132KV-RANGIA - DEOTHANG	20	0	-11	-0.3
NEPAL	NR	132KV-Tanakpur(NH) - Mahendranagar(PG)	0	0	0	-1.2
	ER	132KV-BIHAR - NEPAL	-204	-38	-121	-2.9
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	282	200	-259	-6.2
BANGLADESH	ER	Bheramara HVDC(Bangladesh)	-898	-200	-569	-13.7
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	61	0	-49	-1.2
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	62	0	-49	-1.2