National Load Despatch Centre
राष्ट्रीय भार प्रेषण केंद्र
POWER SYSTEM OPERATION CORPORATION LIMITED
पॉवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड
(Government of India Enterprise/ भारत सरकार का उद्यम)
B-9, QUTUB INSTITUTIONAL AREA, KATWARIA SARAI, NEW DELHI -110016
बी-9, क़ुतुब इन्स्टीट्यूशनल एरिया, कटवारिया सराये, न्यू दिल्ली-110016

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 29th 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., डोंगतिएह, 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 28.03.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 28-मार्च-2020 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा०भा०प्रे०के० की वेबसाइट पर उप्लब्ध 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 28th 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:** **29-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)	25947	31192	35205	16768	2215	111327
Peak Shortage (MW)	501	0	0	0	41	542
Energy Met (MU)	579	781	900	333	36	2629
Hydro Gen (MU)	158	27	73	41	4	304
Wind Gen (MU)	4	34	39	-	-	76
Solar Gen (MU)*	45.34	29.90	98.22	4.59	0.04	178
Energy Shortage (MU)	7.4	0.0	0.0	0.0	0.5	7.8
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	31196	35593	42125	16912	2203	117761
Time Of Maximum Demand Met (From NLDC SCADA)	19:52	07:43	09:42	20:26	18:36	19:47

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	0.051	0.00	0.31	3.52	3.83	65.39	30.78

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	3044	0	56.1	42.7	-1.3	136	0.0
	Haryana	3632	0	64.8	58.2	0.5	127	0.0
	Rajasthan	6704	0	123.5	41.3	-1.8	508	0.0
	Delhi	2294	0	42.4	32.5	-2.0	12	0.0
	UP	13031	0	219.4	98.7	-0.2	1074	0.0
	Uttarakhand	959	0	16.9	3.0	-2.6	105	0.0
	HP	875	0	12.6	1.7	-2.8	67	0.0
	J&K(UT) & Ladakh(UT)	2202	550	40.9	32.7	-1.8	328	7.4
	Chandigarh	141	0	2.2	2.6	-0.4	2	0.0
WR	Chhattisgarh	3156	0	73.6	24.1	-1.5	244	0.0
	Gujarat	9263	0	201.7	64.1	2.1	544	0.0
	MP	7276	0	142.8	92.0	-1.4	683	0.0
	Maharashtra	16197	0	351.0	140.0	-1.1	479	0.0
	Goa	343	0	6.8	6.9	-0.1	33	0.0
	DD	63	0	1.4	1.2	0.2	17	0.0
	DNH	78	0	1.7	1.8	-0.1	18	0.0
	Essar steel	234	0	1.9	1.8	0.1	94	0.0
SR	Andhra Pradesh	8138	0	161.0	77.3	0.7	452	0.0
	Telangana	10211	0	208.6	108.0	0.4	763	0.0
	Karnataka	10660	0	214.6	76.2	0.0	537	0.0
	Kerala	3581	0	67.5	51.7	1.0	204	0.0
	Tamil Nadu	10791	0	244.5	171.5	1.8	540	0.0
	Puducherry	207	0	4.1	4.9	-0.8	18	0.0
ER	Bihar	4236	0	67.3	71.3	-5.5	120	0.0
	DVC	1664	0	32.9	-21.9	0.6	210	0.0
	Jharkhand	1302	0	23.0	14.9	-0.6	105	0.0
	Odisha	3939	0	82.8	2.1	0.8	205	0.0
	West Bengal	6270	0	125.2	36.2	2.6	340	0.0
	Sikkim	104	0	1.3	1.6	-0.3	30	0.0
NER	Arunachal Pradesh	112	1	1.9	1.2	0.6	30	0.0
	Assam	1287	26	21.0	17.8	0.2	68	0.3
	Manipur	183	0	2.4	2.3	0.1	21	0.0
	Meghalaya	249	0	3.7	3.5	-0.2	36	0.1
	Mizoram	93	1	1.5	1.3	-0.2	17	0.0
	Nagaland	109	2	2.0	2.0	-0.1	13	0.0
	Tripura	253	0	3.6	3.4	-0.1	57	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	5.6	-1.0	-13.1
Day Peak (MW)	742.7	-177.6	-847.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	68.4	-164.2	162.2	-72.5	6.4	0.4
Actual(MU)	30.3	-161.0	174.0	-59.5	9.2	-7.0
O/D/U/D(MU)	-38.1	3.2	11.8	13.0	2.8	-7.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	6648	22895	7082	2205	1012	39842
State Sector	21528	25826	14495	8220	11	70080
Total	28176	48721	21577	10425	1023	109922

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	261	733	375	366	7	1742
Lignite	14	13	48	0	0	75
Hydro	158	27	74	41	4	304
Nuclear	23	36	64	0	0	123
Gas, Naptha & Diesel	27	63	19	0	22	130
RES (Wind, Solar, Biomass & Others)	76	74	145	5	0	300
Total	560	946	723	412	32	2674
Share of RES in total generation (%)	13.59	7.87	19.98	1.13	0.13	11.21
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total	46.00	14.49	38.98	11.18	11.77	27.18

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.087
Based on State Max Demands	1.128

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

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

Executive Director-NLDC

INTER-REGIONAL EXCHANGES

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

Date of Reporting: 29-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	248	0.0	6.2	-6.2
3	765 kV	GAYA-VARANASI	D/C	241	132	1.5	0.0	1.5
4	765 kV	SASARAM-FATEHPUR	S/C	237	0	2.5	0.0	2.5
5	765 kV	GAYA-BALIA	S/C	25	272	0.0	2.3	-2.3
6	400 kV	PUSAULI-VARANASI	S/C	0	239	0.0	4.9	-4.9
7	400 kV	PUSAULI -ALLAHABAD	S/C	0	82	0.0	1.0	-1.0
8	400 kV	MUZAFFARPUR-GORAKHPUR	D/C	164	329	0.0	2.8	-2.8
9	400 kV	PATNA-BALIA	O/C	40	400	0.0	6.4	-6.4
10	400 kV	BIHARSHARIFF-BALIA	D/C	52	151	0.0	1.5	-1.5
11	400 kV	MOTIHARI-GORAKHPUR	D/C	0	207	0.0	3.2	-3.2
12	400 kV	BIHARSHARIFF-VARANASI	D/C	271	0	3.2	0.0	3.2
13	220 kV	PUSAULI-SAHUPURI	S/C	0	126	0.0	2.4	-2.4
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	7.5	30.6	-23.0
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1564	0	28.0	0.0	28.0
2	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	685	303	5.2	0.0	5.2
3	765 kV	JHARSUGUDA-DURG	D/C	22	147	0.0	1.4	-1.4
4	400 kV	JHARSUGUDA-RAIGARH	Q/C	75	229	0.0	2.3	-2.3
5	400 kV	RANCHI-SIPAT	D/C	233	125	1.9	0.0	1.9
6	220 kV	BUDHIPADAR-RAIGARH	S/C	0	141	0.0	2.5	-2.5
7	220 kV	BUDHIPADAR-KORBA	D/C	104	17	1.1	0.0	1.1
					ER-WR	36.2	6.1	30.1
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0	690	0.0	16.0	-16.0
2	HVDC	TALCHER-KOLAR BIPOLE	D/C	0	1980	0.0	40.9	-40.9
3	765 kV	ANGUL-SRIKAKULAM	D/C	0	2888	0.0	53.9	-53.9
4	400 kV	TALCHER-I/C	D/C	415	573	0.0	3.3	-3.3
5	220 kV	BALIMELA-UPPER-SILERRU	S/C	1	0	0.0	0.0	0.0
					ER-SR	0.0	110.8	-110.8
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	D/C	147	217	0.5	0.0	0.5
2	400 kV	ALIPURDUAR-BONGAIGAON	D/C	225	292	0.0	0.0	0.0
3	220 kV	ALIPURDUAR-SALAKATI	D/C	43	67	0.0	0.0	0.0
					ER-NER	0.5	0.0	0.5
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	-	0	489	9.8	0.0	9.8
					NER-NR	9.8	0.0	9.8
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	D/C	0	0	0.0	3.8	-3.8
2	HVDC	V'CHAL B/B	D/C	449	0	12.1	0.0	12.1
3	HVDC	APL -MHG	D/C	0	885	0.0	21.8	-21.8
4	765 kV	GWALIOR-AGRA	D/C	0	1721	0.0	23.1	-23.1
5	765 kV	PHAGI-GWALIOR	D/C	0	1003	0.0	13.0	-13.0
6	765 kV	JABALPUR-ORAI	D/C	101	592	0.0	11.5	-11.5
7	765 kV	GWALIOR-ORAI	S/C	519	0	8.5	0.0	8.5
8	765 kV	SATNA-ORAI	S/C	0	1159	0.0	21.4	-21.4
9	765 kV	CHITORGARH-BANASKANTHA	D/C	863	0	11.9	0.0	11.9
10	400 kV	ZERDA-KANKROLI	S/C	295	0	4.9	0.0	4.9
11	400 kV	ZERDA -BHINMAL	S/C	308	26	4.6	0.0	4.6
12	400 kV	V'CHAL -RIHAND	S/C	970	0	22.7	0.0	22.7
13	400 kV	RAPP-SHUJALPUR	D/C	354	187	2.8	0.0	2.8
14	220 kV	BHANPURA-RANPUR	S/C	65	36	0.0	0.0	0.0
15	220 kV	BHANPURA-MORAK	S/C	11	77	0.0	0.6	-0.6
16	220 kV	MEHGAON-AURAIYA	S/C	108	0	1.4	1.4	0.0
17	220 kV	MALANPUR-AURAIYA	S/C	77	0	0.8	0.0	0.8
18	132 kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0
					WR-NR	69.8	96.6	-26.8
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1002	0.0	21.2	-21.2
2	HVDC	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0
3	765 kV	SOLAPUR-RAICHUR	D/C	0	2387	0.0	34.4	-34.4
4	765 kV	WARDHA-NIZAMABAD	D/C	0	2989	0.0	51.8	-51.8
5	400 kV	KOLHAPUR-KUDGI	D/C	615	134	4.5	0.2	4.4
6	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0
7	220 kV	PONDA-AMBEWADI	S/C	0	45	0.0	0.9	-0.9
8	220 kV	XELDEM-AMBEWADI	S/C	0	63	1.2	0.0	1.2
					WR-SR	5.7	108.4	-102.8

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	69	36	-10	-0.3
	ER	MANGDECHHU (4 x 180) ALIPURDUAR RECEIPT	207	168	153	3.7
	ER	TALA (6 * 170) BINAGURI RECEIPT	313	192	93	2.2
	NER	132KV-SALAKATI - GELEPHU	0	0	-6	-0.2
	NER	132KV-RANGIA - DEOTHANG	19	0	5	0.1
NEPAL	NR	132KV-Tanakpur(NH) - Mahendranagar(PG)	0	0	0	-0.2
	ER	132KV-BIHAR - NEPAL	-100	-1	-9	-0.2
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-64	-2	-25	-0.6
BANGLADESH	ER	Bheramara HVDC(Bangladesh)	-706	-256	-431	-10.3
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	71	0	-58	-1.4
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	70	0	-58	-1.4