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: 30th 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 29.03.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 29-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 29th 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:** **30-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)	27479	30855	34504	15697	2097	110632
Peak Shortage (MW)	519	0	0	0	90	609
Energy Met (MU)	598	785	897	325	35	2640
Hydro Gen (MU)	172	33	76	47	5	334
Wind Gen (MU)	6	37	40	-	-	83
Solar Gen (MU)*	44.64	30.40	94.51	4.55	0.04	174
Energy Shortage (MU)	7.8	0.0	0.0	0.0	0.6	8.4
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	32030	36181	42523	15935	2177	120184
Time Of Maximum Demand Met (From NLDC SCADA)	19:31	07:27	09:53	20:30	18:29	09:53

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	0.071	0.00	1.05	6.79	7.85	68.40	23.75

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	3084	0	60.0	44.6	-0.1	171	0.0
	Haryana	3668	0	66.5	59.3	0.8	184	0.0
	Rajasthan	7394	0	131.8	47.8	-3.6	200	0.0
	Delhi	2241	0	41.8	32.2	-2.1	19	0.0
	UP	13385	0	220.4	106.0	-9.0	822	0.0
	Uttarakhand	1004	0	16.8	1.6	-0.9	118	0.0
	HP	825	0	12.7	1.2	-1.9	87	0.0
	J&K(UT) & Ladakh(UT)	2151	538	45.3	32.8	0.0	146	7.8
	Chandigarh	139	0	2.2	2.5	-0.2	20	0.0
WR	Chhattisgarh	3086	0	71.9	24.1	-2.8	166	0.0
	Gujarat	9379	0	203.5	73.3	1.4	476	0.0
	MP	7916	0	150.4	90.7	-2.5	500	0.0
	Maharashtra	16291	0	348.4	130.3	0.2	499	0.0
	Goa	350	0	6.9	6.9	0.0	29	0.0
	DD	60	0	1.3	1.2	0.1	13	0.0
	DNH	74	0	1.6	1.6	0.0	26	0.0
	Essar steel	227	0	1.1	0.9	0.2	120	0.0
SR	Andhra Pradesh	8244	0	160.4	75.9	-0.9	687	0.0
	Telangana	10036	0	206.5	117.8	1.5	1120	0.0
	Karnataka	10500	0	215.7	76.0	0.4	572	0.0
	Kerala	3569	0	67.8	51.8	1.1	193	0.0
	Tamil Nadu	10982	0	242.7	173.7	1.0	456	0.0
	Puducherry	208	0	4.0	4.5	-0.5	44	0.0
ER	Bihar	4050	0	65.3	68.7	-4.9	580	0.0
	DVC	1616	0	30.9	-21.4	-0.2	215	0.0
	Jharkhand	1263	0	21.9	13.3	0.0	110	0.0
	Odisha	3576	0	80.1	1.0	0.9	240	0.0
	West Bengal	6209	0	125.7	36.2	0.5	213	0.0
	Sikkim	86	0	1.1	1.3	-0.3	19	0.0
NER	Arunachal Pradesh	114	1	1.8	1.4	0.3	25	0.0
	Assam	1296	43	20.0	17.2	-0.3	62	0.4
	Manipur	178	2	2.4	2.1	0.3	32	0.0
	Meghalaya	246	0	3.4	3.0	-0.2	34	0.1
	Mizoram	92	0	1.6	1.3	0.1	17	0.0
	Nagaland	117	1	1.9	1.9	0.0	16	0.0
	Tripura	247	2	3.4	3.4	-0.4	56	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	8.4	-1.3	-13.5
Day Peak (MW)	682.9	-264.4	-872.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	70.4	-165.2	161.1	-72.5	6.2	-0.1
Actual(MU)	27.4	-159.5	196.6	-70.3	7.8	2.0
O/D/U/D(MU)	-43.0	5.7	35.5	2.2	1.7	2.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	6528	23245	7082	2375	1375	40606
State Sector	21528	25291	13215	7620	11	67665
Total	28056	48536	20297	9995	1386	108270

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	265	740	353	363	7	1728
Lignite	16	11	48	0	0	75
Hydro	172	33	76	47	5	334
Nuclear	24	36	63	0	0	123
Gas, Naptha & Diesel	27	61	19	0	19	126
RES (Wind, Solar, Biomass & Others)	77	77	140	5	0	299
Total	582	958	699	415	31	2685
Share of RES in total generation (%)	13.26	8.08	19.97	1.12	0.13	11.13
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total	46.97	15.31	39.95	12.53	16.01	28.16

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.072
Based on State Max Demands	1.114

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: 30-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	343	148	1.3	0.0	1.3
4	765 kV	SASARAM-FATEHPUR	S/C	265	5	2.2	0.0	2.2
5	765 kV	GAYA-BALIA	S/C	69	271	0.0	2.4	-2.4
6	400 kV	PUSAULI-VARANASI	S/C	0	254	0.0	4.9	-4.9
7	400 kV	PUSAULI -ALLAHABAD	S/C	0	84	0.0	1.1	-1.1
8	400 kV	MUZAFFARPUR-GORAKHPUR	D/C	290	427	0.0	2.9	-2.9
9	400 kV	PATNA-BALIA	Q/C	168	486	0.0	5.6	-5.6
10	400 kV	BIHARSHARIFF-BALIA	D/C	113	203	0.0	1.4	-1.4
11	400 kV	MOTIHARI-GORAKHPUR	D/C	0	219	0.0	2.6	-2.6
12	400 kV	BIHARSHARIFF-VARANASI	D/C	351	32	3.3	0.0	3.3
13	220 kV	PUSAULI-SAHUPURI	S/C	0	129	0.0	2.2	-2.2
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	0.5	0.0	0.5
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	7.2	29.3	-22.1
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1665	0	30.6	0.0	30.6
2	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	746	424	2.5	0.0	2.5
3	765 kV	JHARSUGUDA-DURG	D/C	54	156	0.0	1.3	-1.3
4	400 kV	JHARSUGUDA-RAIGARH	Q/C	0	279	0.0	3.2	-3.2
5	400 kV	RANCHI-SIPAT	D/C	247	147	0.7	0.0	0.7
6	220 kV	BUDHIPADAR-RAIGARH	S/C	0	136	0.0	1.6	-1.6
7	220 kV	BUDHIPADAR-KORBA	D/C	110	18	1.1	0.0	1.1
					ER-WR	34.9	6.2	28.7
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0	691	0.0	16.0	-16.0
2	HVDC	TALCHER-KOLAR BIPOLE	D/C	0	2470	0.0	47.9	-47.9
3	765 kV	ANGUL-SRIKAKULAM	D/C	0	2926	0.0	56.7	-56.7
4	400 kV	TALCHER-I/C	D/C	398	1231	0.0	11.4	-11.4
5	220 kV	BALIMELA-UPPER-SILERRU	S/C	1	0	0.0	0.0	0.0
					ER-SR	0.0	120.6	-120.6
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	D/C	205	245	0.5	0.0	0.5
2	400 kV	ALIPURDUAR-BONGAIGAON	D/C	255	323	0.1	0.0	0.1
3	220 kV	ALIPURDUAR-SALAKATI	D/C	49	74	0.0	0.0	0.0
					ER-NER	0.7	0.0	0.7
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	-	464	0	8.3	0.0	8.3
					NER-NR	8.3	0.0	8.3
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	884	0.0	21.0	-21.0
4	765 kV	GWALIOR-AGRA	D/C	0	1752	0.0	19.9	-19.9
5	765 kV	PHAGI-GWALIOR	D/C	0	972	0.0	13.3	-13.3
6	765 kV	JABALPUR-ORAI	D/C	162	582	0.0	10.4	-10.4
7	765 kV	GWALIOR-ORAI	S/C	552	0	8.7	0.0	8.7
8	765 kV	SATNA-ORAI	S/C	0	1175	0.0	21.3	-21.3
9	765 kV	CHITORGARH-BANASKANTHA	D/C	1015	0	16.8	0.0	16.8
10	400 kV	ZERDA-KANKROLI	S/C	344	0	5.5	0.0	5.5
11	400 kV	ZERDA -BHINMAL	S/C	344	0	5.0	0.0	5.0
12	400 kV	V'CHAL -RIHAND	S/C	964	0	22.1	0.0	22.1
13	400 kV	RAPP-SHUJALPUR	D/C	369	192	1.2	0.0	1.2
14	220 kV	BHANPURA-RANPUR	S/C	61	27	0.0	0.0	0.0
15	220 kV	BHANPURA-MORAK	S/C	4	112	0.0	1.0	-1.0
16	220 kV	MEHGAON-AURAIYA	S/C	135	0	1.7	0.0	1.7
17	220 kV	MALANPUR-AURAIYA	S/C	98	0	1.1	0.0	1.1
18	132 kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0
					WR-NR	74.3	90.6	-16.3
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1006	0.0	23.4	-23.4
2	HVDC	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0
3	765 kV	SOLAPUR-RAICHUR	D/C	0	2481	0.0	37.2	-37.2
4	765 kV	WARDHA-NIZAMABAD	D/C	0	3181	0.0	56.5	-56.5
5	400 kV	KOLHAPUR-KUDGI	D/C	654	279	3.8	1.1	2.8
6	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0
7	220 kV	PONDA-AMBEWADI	S/C	1	49	0.0	0.9	-0.9
8	220 kV	XELDEM-AMBEWADI	S/C	0	58	1.1	0.0	1.1
					WR-SR	4.9	119.1	-114.2

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	61	5	8	0.2
	ER	MANGDECHHU (4 x 180) ALIPURDUAR RECEIPT	252	144	173	4.2
	ER	TALA (6 * 170) BINAGURI RECEIPT	221	116	163	3.9
	NER	132KV-SALAKATI - GELEPHU	9	0	-4	-0.1
	NER	132KV-RANGIA - DEOTHANG	0	0	10	0.3
NEPAL	NR	132KV-Tanakpur(NH) - Mahendranagar(PG)	0	0	0	-0.2
	ER	132KV-BIHAR - NEPAL	-136	-1	-15	-0.4
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-114	-4	-28	-0.7
BANGLADESH	ER	Bheramara HVDC(Bangladesh)	-740	-262	-444	-10.6
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	66	0	-60	-1.4
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	66	0	-60	-1.4