



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: 01st Apr 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., डोंगतिह, 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 31.03.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 31-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 31st Mar 2020, is available at the NLDC website.

धन्यवाद,

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



Report for previous day

Date of Reporting: 01-Apr-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)	28344	31372	35444	16986	2218	114364
Peak Shortage (MW)	463	0	0	0	28	491
Energy Met (MU)	623	802	910	334	36	2705
Hydro Gen (MU)	154	31	83	49	4	322
Wind Gen (MU)	26	55	36	-	-	118
Solar Gen (MU)*	35.36	28.12	97.67	4.74	0.04	166
Energy Shortage (MU)	9.5	0.0	0.0	0.0	0.8	10.2
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	32267	36473	42849	16827	2249	123088
Time Of Maximum Demand Met (From NLDC SCADA)	19:31	07:30	10:43	19:01	18:20	09:28

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	0.044	0.07	0.83	7.23	8.14	77.07	14.79

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	3131	0	63.6	47.1	-0.7	158	0.0
	Haryana	3793	0	66.7	64.1	0.2	263	0.0
	Rajasthan	8044	0	141.3	39.9	-2.0	556	0.0
	Delhi	2302	0	42.9	32.9	-1.4	32	0.0
	UP	13613	0	234.8	108.0	-0.9	935	0.0
	Uttarakhand	1041	0	17.8	2.6	0.6	112	0.0
	HP	827	0	13.0	-0.6	0.4	188	0.0
	J&K(UT) & Ladakh(UT)	1933	483	40.2	35.1	-4.4	51	9.4
	Chandigarh	140	0	2.3	2.3	0.0	23	0.0
	Chhattisgarh	3160	0	72.6	25.0	-1.3	300	0.0
WR	Gujarat	9882	0	217.1	70.2	-0.1	598	0.0
	MP	8432	0	158.9	95.1	-1.7	342	0.0
	Maharashtra	16245	0	344.3	128.3	-0.4	573	0.0
	Goa	347	0	7.1	7.2	-0.1	35	0.0
	DD	64	0	1.4	1.4	0.0	7	0.0
	DNH	75	0	0.0	1.7	-0.4	18	0.0
	Essar steel	175	0	0.8	0.7	0.1	108	0.0
	Andhra Pradesh	8296	0	164.2	85.4	-1.0	366	0.0
	Telangana	10012	0	204.8	108.8	0.0	530	0.0
	Karnataka	11257	0	221.6	78.5	-0.3	424	0.0
SR	Kerala	3771	0	70.2	54.7	0.3	212	0.0
	Tamil Nadu	11324	0	245.2	176.6	-1.4	373	0.0
	Puducherry	207	0	4.2	4.5	-0.3	65	0.0
	Bihar	4062	0	71.2	69.9	-0.4	495	0.0
	DVC	1685	0	32.4	-22.5	0.1	228	0.0
	Jharkhand	1243	0	23.4	15.0	-0.5	172	0.0
	Odisha	3703	0	77.3	3.1	0.5	257	0.0
	West Bengal	6545	0	128.0	36.5	0.9	339	0.0
	Sikkim	97	0	1.3	1.4	-0.1	18	0.0
	Arunachal Pradesh	110	1	1.5	1.1	0.2	26	0.0
NER	Assam	1318	9	20.9	18.2	-0.3	65	0.6
	Manipur	189	1	2.4	2.2	0.2	22	0.0
	Meghalava	256	0	3.4	3.0	-0.2	36	0.1
	Mizoram	95	2	1.6	1.3	0.0	23	0.0
	Nagaland	123	1	2.0	2.0	-0.1	36	0.0
	Tripura	240	1	3.9	3.2	-0.4	34	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	7.4	-1.8	-14.4
Day Peak (MW)	587.0	-238.8	-1082.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	78.6	-177.7	156.5	-64.2	6.8	0.0
Actual(MU)	54.6	-183.4	179.1	-63.7	7.3	-6.1
OD/UD(MU)	-24.0	-5.7	22.6	0.6	0.5	-6.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	6529	24127	6172	2475	779	40082
State Sector	21403	26746	14888	7720	11	70768
Total	27932	50872	21060	10195	791	110849

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	278	742	375	368	7	1769
Lignite	18	14	53	0	0	85
Hydro	154	31	83	49	4	322
Nuclear	24	37	59	0	0	119
Gas, Naptha & Diesel	24	72	19	0	23	137
RES (Wind, Solar, Biomass & Others)	90	95	141	5	0	331
Total	588	991	729	422	33	2763

Share of RES in total generation (%)	15.33	9.64	19.35	1.12	0.12	12.00
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total	45.64	16.47	38.78	12.83	11.50	27.95

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.062
Based on State Max Demands	1.119

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: 01-Apr-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	2	248	0.0	6.0	-6.0	
3	765 kV	GAYA-VARANASI	D/C	260	253	0.0	2.0	-2.0	
4	765 kV	SASARAM-FATEHPUR	S/C	171	66	0.6	0.0	0.6	
5	765 kV	GAYA-BALIA	S/C	0	300	0.0	4.6	-4.6	
6	400 kV	PUSAULI-VARANASI	S/C	0	220	0.0	3.7	-3.7	
7	400 kV	PUSAULI-ALLAHABAD	S/C	94	102	0.0	1.2	-1.2	
8	400 kV	MUZAFFARPUR-GORAKHPUR	D/C	106	416	0.0	2.9	-2.9	
9	400 kV	PATNA-BALIA	Q/C	51	466	0.0	5.8	-5.8	
10	400 kV	BIHARSHARIFF-BALIA	D/C	52	197	0.0	1.8	-1.8	
11	400 kV	MOTIHARI-GORAKHPUR	D/C	0	220	0.0	3.2	-3.2	
12	400 kV	BIHARSHARIFF-VARANASI	D/C	281	46	2.4	0.0	2.4	
13	220 kV	PUSAULI-SAHUPURI	S/C	0	126	0.0	1.0	-1.0	
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	3.5	32.1	-28.6
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1706	0	25.4	0.0	25.4	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	634	317	3.8	0.0	3.8	
3	765 kV	JHARSUGUDA-DURG	D/C	52	219	0.0	1.7	-1.7	
4	400 kV	JHARSUGUDA-RAIGARH	Q/C	49	220	0.0	1.6	-1.6	
5	400 kV	RANCHI-SIPAT	D/C	243	86	1.6	0.0	1.6	
6	220 kV	BUDHIPADAR-RAIGARH	S/C	0	116	0.0	1.9	-1.9	
7	220 kV	BUDHIPADAR-KORBA	D/C	135	0	1.9	0.0	1.9	
						ER-WR	32.7	5.3	27.4
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0	645	0.0	10.0	-10.0	
2	HVDC	TALCHER-KOLAR BIPOLE	D/C	0	1981	0.0	44.0	-44.0	
3	765 kV	ANGUL-SRIKAKULAM	D/C	0	2876	0.0	55.7	-55.7	
4	400 kV	TALCHER-I/C	D/C	693	974	0.0	6.7	-6.7	
5	220 kV	BALIMELA-UPPER-SILERRU	S/C	1	0	0.0	0.0	0.0	
						ER-SR	0.0	109.6	-109.6
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	D/C	230	191	2.2	0.0	2.2	
2	400 kV	ALIPURDUAR-BONGAIGAON	D/C	221	210	1.5	0.0	1.5	
3	220 kV	ALIPURDUAR-SALAKATI	D/C	51	46	0.4	0.0	0.4	
						ER-NER	4.0	0.0	4.0
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	-	473	0	10.9	0.0	10.9	
						NER-NR	10.9	0.0	10.9
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	API -MHG	D/C	0	497	0.0	12.2	-12.2	
4	765 kV	GWALIOR-AGRA	D/C	0	1890	0.0	33.2	-33.2	
5	765 kV	PHAGI-GWALIOR	D/C	0	1349	0.0	18.0	-18.0	
6	765 kV	JABALPUR-ORAI	D/C	0	636	0.0	17.9	-17.9	
7	765 kV	GWALIOR-ORAI	S/C	653	0	9.7	0.0	9.7	
8	765 kV	SATNA-ORAI	S/C	0	1220	0.0	25.0	-25.0	
9	765 kV	CHITORGARH-BANASKANTHA	D/C	488	20	4.3	0.0	4.3	
10	400 kV	ZERDA-KANKROLI	S/C	246	0	4.0	0.0	4.0	
11	400 kV	ZERDA -BHINMAL	S/C	521	0	6.4	0.0	6.4	
12	400 kV	V'CHAL -RIHAND	S/C	969	0	22.7	0.0	22.7	
13	400 kV	RAPP-SHUJALPUR	D/C	265	250	0.6	0.0	0.6	
14	220 kV	BHANPURA-RANPUR	S/C	64	27	0.0	0.0	0.0	
15	220 kV	BHANPURA-MORAK	S/C	0	124	0.0	1.5	-1.5	
16	220 kV	MEHGAON-AURAIYA	S/C	135	0	1.4	0.0	1.4	
17	220 kV	MALANPUR-AURAIYA	S/C	97	0	0.9	0.0	0.9	
18	132 kV	GWALIOR-SAWAI MADHOPUR	S/C	0	56	0.0	0.0	0.0	
						WR-NR	62.2	111.6	-49.4
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	1006	0.0	23.1	-23.1	
2	HVDC	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0	
3	765 kV	SOLAPUR-RAICHUR	D/C	0	2535	0.0	37.6	-37.6	
4	765 kV	WARDHA-NIZAMABAD	D/C	0	3055	0.0	51.6	-51.6	
5	400 kV	KOLHAPUR-KUDGI	D/C	655	142	4.3	0.3	4.0	
6	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0	
7	220 kV	PONDA-AMBEWADI	S/C	0	51	0.0	1.0	-1.0	
8	220 kV	XELDEM-AMBEWADI	S/C	0	56	1.1	0.0	1.1	
						WR-SR	5.4	113.6	-108.2

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	25	0	-4	-0.1
	ER	MANGDECHHU (4 x 180) ALIPURDUAR RECEIPT	208	148	169	4.1
	ER	TALA (6 * 170) BINAGURI RECEIPT	202	103	134	3.2
	NER	132KV-SALAKATI - GELEPHU	16	0	-8	-0.2
NEPAL	NER	132KV-RANGIA - DEOTHANG	0	0	12	0.3
	NR	132KV-Tanakpur(NH) - Mahendranagar(PG)	0	0	0	0.0
	ER	132KV-BIHAR - NEPAL	-165	-5	-22	-0.5
BANGLADESH	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-72	-40	-54	-1.3
	ER	Bheramara HVDC(Bangladesh)	-946	-258	-487	-11.7
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	68	0	-57	-1.4
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	68	0	-56	-1.4