



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: 20th Apr 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., डोंगतेह, 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 19.04.2020.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 19-अप्रैल-2020 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रांभांप्रेंके 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 19th Apr 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: 20-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 2000 hrs; from RLDCs)	37662	36334	33493	16004	1942	125435
Peak Shortage (MW)	512	0	0	0	177	689
Energy Met (MU)	757	912	838	325	30	2862
Hydro Gen (MU)	187	38	66	70	6	367
Wind Gen (MU)	10	61	31	-	-	101
Solar Gen (MU)*	38.94	26.60	89.76	4.75	0.02	160
Energy Shortage (MU)	11.1	0.0	0.0	0.0	2.1	13.2
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	38918	39417	37973	16165	2074	129467
Time Of Maximum Demand Met (From NLDC SCADA)	20:08	23:46	14:52	19:59	18:44	22:42

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	0.031	0.00	0.00	3.07	3.07	73.18	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	4129	0	77.9	60.8	-1.8	15	0.0
	Haryana	5268	0	86.6	78.8	0.8	221	0.0
	Rajasthan	8522	0	171.8	63.3	-0.1	236	0.0
	Delhi	2969	0	57.8	47.6	-0.8	85	0.0
	UP	15914	0	280.3	114.3	-0.8	409	0.0
	Uttarakhand	1144	0	21.6	6.0	-0.3	85	0.0
	HP	736	0	12.1	-3.6	-1.0	244	0.0
	J&K(UT) & Ladakh(UT)	2159	540	46.6	28.9	1.7	315	11.1
	Chandigarh	136	0	2.5	2.7	-0.2	3	0.0
	Chhattisgarh	3316	0	76.5	22.9	-1.2	175	0.0
WR	Gujarat	11856	0	261.3	78.4	4.0	546	0.0
	MP	8528	0	179.6	99.4	-1.2	317	0.0
	Maharashtra	17139	0	380.5	161.6	-1.4	496	0.0
	Goa	382	0	7.8	7.9	-0.2	53	0.0
	DD	102	0	2.3	2.4	-0.1	20	0.0
	DNH	121	0	2.7	2.7	0.0	31	0.0
	AMNSIL	303	0	0.8	0.8	0.0	119	0.0
SR	Andhra Pradesh	8281	0	168.7	102.0	-0.3	421	0.0
	Telangana	6473	0	143.8	55.8	-1.2	323	0.0
	Karnataka	9723	0	196.4	54.2	1.6	611	0.0
	Kerala	3587	0	69.6	47.1	1.1	255	0.0
	Tamil Nadu	11150	0	253.7	181.9	-0.1	416	0.0
	Puducherry	280	0	5.4	5.6	-0.2	29	0.0
ER	Bihar	4512	0	80.8	80.5	-0.5	477	0.0
	DVC	1529	0	30.5	-23.8	0.9	366	0.0
	Jharkhand	1326	0	24.4	17.9	-1.3	107	0.0
	Odisha	3705	0	69.7	3.0	0.5	293	0.0
	West Bengal	6524	0	118.8	33.5	0.1	441	0.0
NER	Sikkim	75	0	1.0	1.3	-0.4	11	0.0
	Arunachal Pradesh	102	3	1.4	1.2	0.2	31	0.0
	Assam	1160	86	15.8	12.9	0.0	100	1.8
	Manipur	171	4	2.5	2.2	0.3	41	0.0
	Meghalaya	267	0	4.0	3.3	-0.3	31	0.1
	Mizoram	73	1	1.4	1.2	-0.1	14	0.0
	Nagaland	110	3	2.0	1.8	0.0	10	0.0
	Tripura	250	5	3.3	3.1	-0.6	21	0.1

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	15.1	-1.1	-15.7
Day Peak (MW)	918.2	-261.8	-1095.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	123.5	-188.7	157.2	-87.4	-4.7	-0.1
Actual(MU)	105.8	-192.5	171.6	-86.5	-8.5	-10.0
O/D/U/D(MU)	-17.7	-3.7	14.4	0.9	-3.9	-10.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	6838	19482	8482	1530	649	36980
State Sector	18723	26132	13738	6662	11	65266
Total	25561	45613	22220	8192	660	102245

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	332	859	359	373	7	1931
Lignite	21	12	40	0	0	73
Hvdro	187	38	66	70	6	366
Nuclear	24	37	51	0	0	112
Gas, Naptha & Diesel	23	65	20	0	28	136
RES (Wind, Solar, Biomass & Others)	78	99	135	5	0	317
Total	665	1110	672	448	41	2935
Share of RES in total generation (%)	11.79	8.91	20.12	1.06	0.05	10.81
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	43.50	15.60	37.54	16.66	15.41	27.10

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.039
Based on State Max Demands	1.097

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: 20-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	0	251	0.0	6.3	-6.3	
3	765 kV	GAYA-VARANASI	D/C	179	609	0.0	4.0	-4.0	
4	765 kV	SASARAM-FATEHPUR	S/C	115	253	0.0	0.9	-0.9	
5	765 kV	GAYA-BALIA	S/C	0	351	0.0	3.7	-3.7	
6	400 kV	PUSAULI-VARANASI	S/C	0	223	0.0	4.4	-4.4	
7	400 kV	PUSAULI-ALLAHABAD	S/C	0	126	0.0	1.6	-1.6	
8	400 kV	MUZAFFARPUR-GORAKHPUR	D/C	0	900	0.0	10.3	-10.3	
9	400 kV	PATNA-BALIA	Q/C	0	744	0.0	11.0	-11.0	
10	400 kV	BIHARSHARIFF-BALIA	D/C	0	439	0.0	4.1	-4.1	
11	400 kV	MOTHARI-GORAKHPUR	D/C	0	232	0.0	3.5	-3.5	
12	400 kV	BIHARSHARIFF-VARANASI	D/C	170	275	0.0	0.6	-0.6	
13	220 kV	PUSAULI-SAHUPURI	S/C	0	145	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-CHANDALI	S/C	0	0	0.0	0.0	0.0	
						ER-NR	0.4	52.9	-52.5
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1297	0	19.0	0.0	19.0	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	590	376	4.2	0.0	4.2	
3	765 kV	JHARSUGUDA-DURG	D/C	0	247	0.0	2.4	-2.4	
4	400 kV	JHARSUGUDA-RAIGARH	Q/C	33	306	0.0	3.4	-3.4	
5	400 kV	RANCHI-SIPAT	D/C	197	164	1.1	0.0	1.1	
6	220 kV	BUDHIPADAR-RAIGARH	S/C	0	142	0.0	2.3	-2.3	
7	220 kV	BUDHIPADAR-KORBA	D/C	174	0	2.4	0.0	2.4	
						ER-WR	26.7	8.0	18.7
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0	645	0.0	7.3	-7.3	
2	HVDC	TALCHER-KOLAR BIPOLE	D/C	0	1982	0.0	46.5	-46.5	
3	765 kV	ANGUL-SRIKAKULAM	D/C	0	2987	0.0	59.7	-59.7	
4	400 kV	TALCHER-I/C	D/C	174	996	0.0	11.6	-11.6	
5	220 kV	BALIMELA-UPPER-SILERRU	S/C	1	0	0.0	0.0	0.0	
						ER-SR	0.0	113.5	-113.5
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAOON	D/C	514	0	8.6	0.0	8.6	
2	400 kV	ALIPURDUAR-BONGAIGAOON	D/C	609	0	9.5	0.0	9.5	
3	220 kV	ALIPURDUAR-SALAKATI	D/C	123	0	2.0	0.0	2.0	
						ER-NER	20.1	0.0	20.1
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	-	487	0	11.6	0.0	11.6	
						NER-NR	11.6	0.0	11.6
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	D/C	0	0	0.0	3.6	-3.6	
2	HVDC	V'CHAL B/B	D/C	0	101	0.0	2.4	-2.4	
3	HVDC	APL -MHG	D/C	0	694	0.0	17.0	-17.0	
4	765 kV	GWALIOR-AGRA	D/C	0	1877	0.0	29.0	-29.0	
5	765 kV	PHAGI-GWALIOR	D/C	0	887	0.0	13.1	-13.1	
6	765 kV	JABALPUR-ORAI	D/C	0	601	0.0	17.8	-17.8	
7	765 kV	GWALIOR-ORAI	S/C	515	0	9.0	0.0	9.0	
8	765 kV	SAINA-ORAI	S/C	0	1100	0.0	22.0	-22.0	
9	765 kV	CHITORGARH-BANASKANTHA	D/C	532	469	0.0	1.3	-1.3	
10	400 kV	ZERDA-KANKROLI	S/C	185	21	1.8	0.0	1.8	
11	400 kV	ZERDA -BHINMAL	S/C	257	91	1.9	0.0	1.9	
12	400 kV	V'CHAL -RIHAND	S/C	957	0	21.8	0.0	21.8	
13	400 kV	RAPP-SHUJALPUR	D/C	309	112	0.6	0.0	0.6	
14	220 kV	BHANPURA-RANPUR	S/C	44	54	0.0	0.8	-0.8	
15	220 kV	BHANPURA-MORAK	S/C	0	72	0.0	1.3	-1.3	
16	220 kV	MEHGAON-AURAIYA	S/C	114	0	1.5	0.0	1.5	
17	220 kV	MALANPUR-AURAIYA	S/C	81	0	0.9	0.0	0.9	
18	132 kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
						WR-NR	37.5	108.2	-70.7
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	985	0.0	13.5	-13.5	
2	HVDC	BARSUR-L-SILERRU	-	0	0	0.0	0.0	0.0	
3	765 kV	SOLAPUR-RAICHUR	D/C	0	2410	0.0	36.8	-36.8	
4	765 kV	WARDHA-NIZAMABAD	D/C	0	2678	0.0	45.9	-45.9	
5	400 kV	KOLHAPUR-KUDGI	D/C	161	428	0.3	3.9	-3.6	
6	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0	
7	220 kV	PONDA-AMBEWADI	S/C	0	66	0.0	1.3	-1.3	
8	220 kV	XELDEM-AMBEWADI	S/C	1	67	0.8	0.0	0.7	
						WR-SR	1.1	101.4	-100.3
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	99	52	53	1.3			
	ER	MANGDECHHU (4 x 180) ALIPURDUAR RECEIPT	373	284	274	6.6			
	ER	TALA (6 * 170) BINAGURI RECEIPT	308	234	257	6.2			
	NER	132KV-SALAKATI - GELEPHU	17	0	-1	0.0			
	NER	132KV-RANGIA - DEOTHANG	0	0	24	0.6			
NEPAL	NR	132KV-Tanakpur(NH) - Mahendranagar(PG)	0	0	0	0.0			
	ER	132KV-BIHAR - NEPAL	-58	-2	-13	-0.3			
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-204	-4	-33	-0.8			
BANGLADESH	ER	Bheramara HVDC(Bangladesh)	-958	-258	-561	-13.5			
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	69	0	-47	-1.1			
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	68	0	-47	-1.1			