



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: 19th 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 18.04.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.5.5.1 के प्रावधान के अनुसार, दिनांक 18-अप्रैल-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 18th 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: 19-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)	37381	36152	33529	15300	1821	124183
Peak Shortage (MW)	542	0	0	0	261	803
Energy Met (MU)	743	940	865	333	28	2908
Hydro Gen (MU)	181	57	78	48	4	368
Wind Gen (MU)	14	60	29	-	-	102
Solar Gen (MU)*	38.67	25.76	92.73	4.57	0.03	162
Energy Shortage (MU)	10.1	0.0	0.3	0.0	2.3	12.6
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	38255	40991	40249	15461	1821	126730
Time Of Maximum Demand Met (From NLDC SCADA)	20:01	06:58	13:20	21:32	18:27	22:34

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	0.029	0.00	0.21	3.01	3.22	79.02	17.77

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	4041	0	67.8	53.5	-4.1	0	0.0
	Haryana	4838	0	83.5	75.9	1.0	0	0.0
	Rajasthan	8542	0	170.4	59.6	-1.4	0	0.0
	Delhi	3082	0	62.1	51.6	-1.0	0	0.0
	UP	15784	0	280.4	117.5	1.3	0	0.0
	Uttarakhand	1110	0	21.6	6.7	-0.9	0	0.0
	HP	724	0	11.8	-4.1	-0.3	0	0.0
	J&K(UT) & Ladakh(UT)	2167	542	42.4	28.3	-0.1	0	10.1
WR	Chandigarh	125	0	2.6	3.0	-0.4	0	0.0
	Chhattisgarh	3357	0	79.5	22.6	-1.6	126	0.0
	Gujarat	11765	0	263.7	74.1	2.4	474	0.0
	MP	8574	0	182.1	105.8	-1.9	336	0.0
	Maharashtra	18229	0	400.2	154.8	0.7	606	0.0
	Goa	395	0	8.1	8.1	0.0	46	0.0
	DD	109	0	2.5	2.6	-0.1	12	0.0
	AMNSIL	258	0	1.3	1.1	0.2	142	0.0
SR	Andhra Pradesh	8332	0	171.0	102.2	0.7	562	0.0
	Telangana	7274	0	152.7	60.3	-0.3	288	0.0
	Karnataka	10635	0	204.4	56.5	0.6	605	0.0
	Kerala	3645	60	72.1	48.9	1.5	191	0.3
	Tamil Nadu	11332	0	259.0	179.1	0.9	314	0.0
ER	Puducherry	278	0	5.5	5.7	-0.3	25	0.0
	Bihar	4828	0	81.0	79.6	0.8	453	0.0
	DVC	1550	0	31.0	-24.6	0.0	320	0.0
	Jharkhand	1300	0	24.4	15.9	-0.1	137	0.0
	Odisha	3561	0	69.4	3.7	-1.5	310	0.0
NER	West Bengal	6348	0	125.8	34.1	-1.4	420	0.0
	Sikkim	90	0	1.1	1.5	-0.4	27	0.0
	Arunachal Pradesh	91	4	1.4	1.0	0.4	27	0.0
	Assam	1051	104	14.9	12.3	-0.5	124	2.1
	Manipur	147	6	2.0	2.1	-0.1	37	0.0
	Meghalaya	250	0	3.8	3.0	-0.1	32	0.1
	Mizoram	70	23	1.3	1.3	-0.2	15	0.0
Nagaland	104	4	2.0	1.7	0.1	9	0.0	
Tripura	218	70	2.4	3.3	-1.6	48	0.1	

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	9.0	-1.0	-15.5
Day Peak (MW)	844.7	-194.3	-1058.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	125.3	-208.9	156.2	-68.9	-3.6	0.0
Actual(MU)	103.1	-218.2	179.5	-70.8	-7.2	-13.6
O/D/U/D(MU)	-22.1	-9.3	23.3	-1.9	-3.6	-13.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	6777	19772	8482	1725	649	37404
State Sector	18723	25967	13738	7512	11	65951
Total	25500	45738	22220	9237	660	103355

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	326	884	362	380	6	1958
Lignite	20	16	42	0	0	78
Hydro	181	57	78	48	4	368
Nuclear	23	36	47	0	0	106
Gas, Naptha & Diesel	23	77	20	0	28	148
RES (Wind, Solar, Biomass & Others)	82	96	138	5	0	321
Total	656	1166	687	433	38	2979

Share of RES in total generation (%)	12.57	8.25	20.04	1.07	0.08	10.77
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	43.69	16.25	38.23	12.25	9.66	26.69

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.079
Based on State Max Demands	1.139

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: 19-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	249	0.0	6.2	-6.2	
3	765 kV	GAYA-VARANASI	D/C	143	466	0.0	4.2	-4.2	
4	765 kV	SASARAM-FATEHPUR	S/C	159	192	0.3	0.0	0.3	
5	765 kV	GAYA-BALIA	S/C	0	339	0.0	4.3	-4.3	
6	400 kV	PUSAULI-VARANASI	S/C	0	230	0.0	4.6	-4.6	
7	400 kV	PUSAULI-ALLAHABAD	S/C	0	116	0.0	1.4	-1.4	
8	400 kV	MUZAFFARPUR-GORAKHPUR	D/C	58	699	0.0	8.3	-8.3	
9	400 kV	PATNA-BALIA	Q/C	0	699	0.0	9.1	-9.1	
10	400 kV	BIHARSHARIFF-BALIA	D/C	10	331	0.0	3.4	-3.4	
11	400 kV	MOTIHARI-GORAKHPUR	D/C	0	229	0.0	3.6	-3.6	
12	400 kV	BIHARSHARIFF-VARANASI	D/C	194	231	0.3	0.0	0.3	
13	220 kV	PUSAULI-SAHUPURI	S/C	42	182	0.0	3.2	-3.2	
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	0.6	0.0	0.6	
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	1.1	48.1	-47.0
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1355	0	25.9	0.0	25.9	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	723	254	5.5	0.0	5.5	
3	765 kV	JHARSUGUDA-DURG	D/C	58	146	0.0	1.2	-1.2	
4	400 kV	JHARSUGUDA-RAIGARH	Q/C	11	281	0.0	3.8	-3.8	
5	400 kV	RANCHI-SIPAT	D/C	237	109	1.7	0.0	1.7	
6	220 kV	BUDHIPADAR-RAIGARH	S/C	0	135	0.0	2.4	-2.4	
7	220 kV	BUDHIPADAR-KORBA	D/C	170	0	2.6	0.0	2.6	
						ER-WR	35.7	7.3	28.4
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0	532	0.0	7.6	-7.6	
2	HVDC	TALCHER-KOLAR BIPOLE	D/C	0	1980	0.0	39.9	-39.9	
3	765 kV	ANGUL-SRIKAKULAM	D/C	0	3030	0.0	61.1	-61.1	
4	400 kV	TALCHER-I/C	D/C	82	1233	0.0	8.8	-8.8	
5	220 kV	BALIMELA-UPPER-SILERRU	S/C	1	0	0.0	0.0	0.0	
						ER-SR	0.0	108.5	-108.5
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	D/C	396	0	7.3	0.0	7.3	
2	400 kV	ALIPURDUAR-BONGAIGAON	D/C	584	0	9.8	0.0	9.8	
3	220 kV	ALIPURDUAR-SALAKATI	D/C	122	0	2.1	0.0	2.1	
						ER-NER	19.2	0.0	19.2
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	183	101	2.2	1.4	0.8	
3	HVDC	APL -MHG	D/C	0	693	0.0	17.0	-17.0	
4	765 kV	GWALIOR-AGRA	D/C	0	2014	0.0	32.9	-32.9	
5	765 kV	PHAGI-GWALIOR	D/C	0	869	0.0	13.3	-13.3	
6	765 kV	JABALPUR-ORAI	D/C	0	658	0.0	18.6	-18.6	
7	765 kV	GWALIOR-ORAI	S/C	513	0	9.3	0.0	9.3	
8	765 kV	SATNA-ORAI	S/C	0	1144	0.0	24.2	-24.2	
9	765 kV	CHITORGARH-BANASKANTHA	D/C	426	616	2.6	3.6	-0.9	
10	400 kV	ZERDA-KANKROLI	S/C	178	47	2.0	0.0	2.0	
11	400 kV	ZERDA -BHINMAL	S/C	359	75	2.5	0.0	2.5	
12	400 kV	V'CHAL -RIHAND	S/C	959	0	22.2	0.0	22.2	
13	400 kV	RAPP-SHUJALPUR	D/C	280	114	2.3	0.4	2.0	
14	220 kV	BHANPURA-RANPUR	S/C	43	40	0.0	0.7	-0.7	
15	220 kV	BHANPURA-MORAK	S/C	0	77	0.0	1.1	-1.1	
16	220 kV	MEHGAON-AURAIYA	S/C	103	0	1.3	0.0	1.3	
17	220 kV	MALANPUR-AURAIYA	S/C	72	11	0.7	0.0	0.7	
18	132 kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
						WR-NR	45.1	116.7	-71.5
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	979	0.0	23.6	-23.6	
2	HVDC	BARSUR-LSILERU	-	0	0	0.0	0.0	0.0	
3	765 kV	SOLAPUR-RAICHUR	D/C	0	2412	0.0	41.0	-41.0	
4	765 kV	WARDHA-NIZAMABAD	D/C	0	2581	0.0	47.5	-47.5	
5	400 kV	KOLHAPUR-KUDGI	D/C	115	522	0.1	6.5	-6.4	
6	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0	
7	220 kV	PONDA-AMBEWADI	S/C	0	62	0.0	1.3	-1.3	
8	220 kV	XELDEM-AMBEWADI	S/C	0	69	1.3	0.0	1.3	
						WR-SR	1.4	119.8	-118.3

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	135	8	13	0.3
	ER	MANGDECHHU (4 x 180) ALIPURDUAR RECEIPT	302	247	238	5.7
	ER	TALA (6 * 170) BINAGURI RECEIPT	269	129	112	2.7
	NER	132KV-SALAKATI - GELEPHU	14	0	-6	-0.2
	NER	132KV-RANGIA - DEOTHANG	0	0	12	0.3
NEPAL	NR	132KV-Tanakpur(NH) - Mahendranagar(PG)	0	0	0	0.0
	ER	132KV-BIHAR - NEPAL	-10	-2	-7	-0.2
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-184	-4	-36	-0.9
BANGLADESH	ER	Bheramara HVDC(Bangladesh)	-952	-257	-548	-13.2
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	53	0	-49	-1.2
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	53	0	-49	-1.2