



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: 12th 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 11.04.2020.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 11-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 11th 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: 12-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)	36428	35419	33163	16359	1910	123279
Peak Shortage (MW)	510	0	0	0	172	682
Energy Met (MU)	710	899	809	351	32	2800
Hydro Gen (MU)	146	45	80	54	3	329
Wind Gen (MU)	11	28	30	-	-	69
Solar Gen (MU)*	41.56	27.90	97.06	4.64	0.04	171
Energy Shortage (MU)	10.3	0.0	0.0	0.0	1.5	11.8
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	36924	40323	36727	16535	1969	124332
Time Of Maximum Demand Met (From NLDC SCADA)	20:01	07:20	14:27	20:28	19:01	19:27

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	0.033	0.00	0.08	4.98	5.06	78.48	16.46

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	4003	0	77.7	57.7	-0.3	140	0.0
	Haryana	4538	0	79.3	77.1	-0.1	188	0.0
	Rajasthan	8272	0	158.3	60.7	-0.1	401	0.0
	Delhi	2384	0	50.1	40.9	-1.9	18	0.0
	UP	15326	0	265.9	128.4	1.0	1098	0.0
	Uttarakhand	1077	0	20.1	7.2	0.0	83	0.0
	HP	803	0	13.0	1.2	-0.5	62	0.0
	J&K(UT) & Ladakh(UT)	2229	557	43.7	33.9	1.0	350	10.3
	Chandigarh	129	0	2.3	2.4	-0.1	15	0.0
	Chhattisgarh	3324	0	76.0	22.2	-1.3	152	0.0
WR	Gujarat	11010	0	247.4	79.8	0.6	441	0.0
	MP	8876	0	176.4	109.2	-0.6	569	0.0
	Maharashtra	17647	0	387.1	156.5	-0.5	485	0.0
	Goa	361	0	6.9	7.0	-0.1	39	0.0
	DD	88	0	1.9	1.9	0.0	28	0.0
	DNH	97	0	2.2	2.2	0.0	51	0.0
	Essar steel	3513	0	0.7	0.5	0.2	115	0.0
SR	Andhra Pradesh	7345	0	148.7	76.1	-0.2	446	0.0
	Telangana	8064	0	168.9	79.1	1.1	520	0.0
	Karnataka	9856	0	197.1	60.0	-0.4	526	0.0
	Kerala	3558	0	66.8	51.2	1.0	201	0.0
	Tamil Nadu	10046	0	222.7	161.1	-0.1	470	0.0
	Puducherry	239	0	4.7	5.2	-0.5	40	0.0
	Bihar	4520	0	84.3	84.8	-1.6	25	0.0
ER	DVC	1461	0	29.4	-27.5	0.4	280	0.0
	Jharkhand	1230	0	22.6	19.4	-0.3	243	0.0
	Odisha	3475	0	70.5	-5.4	-0.1	283	0.0
	West Bengal	6663	0	142.5	43.3	2.2	491	0.0
	Sikkim	88	0	1.2	1.4	-0.2	10	0.0
NER	Arunachal Pradesh	103	2	1.7	1.1	0.6	42	0.0
	Assam	1092	86	17.5	14.6	0.1	105	1.2
	Manipur	174	8	2.1	2.3	-0.1	29	0.0
	Meghalaya	226	5	3.7	3.4	-0.3	31	0.1
	Mizoram	105	4	1.5	1.4	-0.2	28	0.0
	Nagaland	109	5	2.1	2.0	0.0	8	0.0
	Tripura	240	13	3.9	3.2	0.0	49	0.2

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	8.5	-4.2	-13.2
Day Peak (MW)	700.0	-319.2	-1099.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	148.2	-192.3	130.3	-83.1	-3.1	0.1
Actual(MU)	140.5	-199.1	133.7	-77.6	-2.0	-4.4
O/D/U/D(MU)	-7.6	-6.8	3.4	5.5	1.1	-4.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	6522	21501	7872	2325	649	38868
State Sector	20968	25151	15715	7420	11	69265
Total	27490	46652	23587	9745	660	108134

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	284	887	340	405	7	1924
Lignite	21	14	50	0	0	85
Hvdro	146	45	80	54	3	329
Nuclear	28	36	51	0	0	116
Gas, Naptha & Diesel	24	59	20	0	29	132
RES (Wind, Solar, Biomass & Others)	81	65	140	5	0	291
Total	583	1106	682	464	39	2875
Share of RES in total generation (%)	13.83	5.84	20.48	1.00	0.10	10.08
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	43.69	13.21	39.77	12.57	8.61	25.53

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.066
Based on State Max Demands	1.144

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: 12-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	23	251	0.0	6.2	-6.2	
3	765 kV	GAYA-VARANASI	D/C	23	602	0.0	7.6	-7.6	
4	765 kV	SASARAM-FATEHPUR	S/C	142	167	0.0	0.1	-0.1	
5	765 kV	GAYA-BALIA	S/C	0	360	0.0	5.5	-5.5	
6	400 kV	PUSAULI-VARANASI	S/C	0	220	0.0	4.5	-4.5	
7	400 kV	PUSAULI-ALLAHABAD	S/C	0	121	0.0	1.5	-1.5	
8	400 kV	MUZAFFARPUR-GORAKHPUR	D/C	149	592	0.0	6.5	-6.5	
9	400 kV	PATNA-BALIA	Q/C	0	793	0.0	10.9	-10.9	
10	400 kV	BIHARSHARIF-BALIA	D/C	12	341	0.0	3.9	-3.9	
11	400 kV	MOTHARI-GORAKHPUR	D/C	0	265	0.0	4.0	-4.0	
12	400 kV	BIHARSHARIF-VARANASI	D/C	194	218	0.0	0.4	-0.4	
13	220 kV	PUSAULI-SAHUPURI	S/C	0	185	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	0.5	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	0.5	54.2	-53.7
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	839	0	12.5	0.0	12.5	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	809	327	5.7	0.0	5.7	
3	765 kV	JHARSUGUDA-DURG	D/C	0	231	0.0	2.9	-2.9	
4	400 kV	JHARSUGUDA-RAIGARH	Q/C	0	298	0.0	3.8	-3.8	
5	400 kV	RANCHI-SIPAT	D/C	271	120	2.4	0.0	2.4	
6	220 kV	BUDHIPADAR-RAIGARH	S/C	0	144	0.0	2.7	-2.7	
7	220 kV	BUDHIPADAR-KORBA	D/C	140	0	2.0	0.0	2.0	
						ER-WR	22.6	9.3	13.3
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0	645	0.0	7.5	-7.5	
2	HVDC	TALCHER-KOLAR BIPOLE	D/C	0	1979	0.0	39.4	-39.4	
3	765 kV	ANGUL-SRIKAKULAM	D/C	0	2663	0.0	50.7	-50.7	
4	400 kV	TALCHER-I/C	D/C	421	907	1.5	0.0	1.5	
5	220 kV	BALIMELA-UPPER-SILERRU	S/C	1	0	0.0	0.0	0.0	
						ER-SR	0.0	97.6	-97.6
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAOON	D/C	314	0	5.1	0.0	5.1	
2	400 kV	ALIPURDUAR-BONGAIGAOON	D/C	447	0	6.7	0.0	6.7	
3	220 kV	ALIPURDUAR-SALAKATI	D/C	83	0	1.4	0.0	1.4	
						ER-NER	13.1	0.0	13.1
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	-	491	0	11.4	0.0	11.4	
						NER-NR	11.4	0.0	11.4
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	D/C	0	227	0.0	10.7	-10.7	
2	HVDC	V'CHAL B/B	D/C	50	2	1.0	0.0	1.0	
3	HVDC	APL -MHG	D/C	0	692	0.0	17.0	-17.0	
4	765 kV	GWALIOR-AGRA	D/C	0	2111	0.0	40.8	-40.8	
5	765 kV	PHAGI-GWALIOR	D/C	0	1239	0.0	22.1	-22.1	
6	765 kV	JABALPUR-ORAI	D/C	0	707	0.0	25.8	-25.8	
7	765 kV	GWALIOR-ORAI	S/C	611	0	11.7	0.0	11.7	
8	765 kV	SAINA-ORAI	S/C	0	1704	0.0	25.6	-25.6	
9	765 kV	CHITORGARH-BANASKANTHA	D/C	395	462	0.0	1.5	-1.5	
10	400 kV	ZERDA-KANKROLI	S/C	195	40	1.6	0.0	1.6	
11	400 kV	ZERDA -BHINMAL	S/C	217	81	2.0	0.0	2.0	
12	400 kV	V'CHAL -RIHAND	S/C	967	0	22.5	0.0	22.5	
13	400 kV	RAPP-SHUALPUR	D/C	161	188	0.6	1.1	-0.5	
14	220 kV	BHANPURA-RANPUR	S/C	44	51	0.0	0.6	-0.6	
15	220 kV	BHANPURA-MORAK	S/C	0	63	0.0	0.9	-0.9	
16	220 kV	MEHGAON-AURAIYA	S/C	115	0	1.2	0.0	1.2	
17	220 kV	MALANPUR-AURAIYA	S/C	84	2	0.6	0.0	0.6	
18	132 kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
						WR-NR	41.3	146.1	-104.8
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	982	0.0	17.7	-17.7	
2	HVDC	BARSUR-L-SILERRU	-	0	0	0.0	0.0	0.0	
3	765 kV	SOLAPUR-RAICHUR	D/C	327	1961	0.8	23.4	-22.6	
4	765 kV	WARDHA-NIZAMABAD	D/C	0	2281	0.0	38.3	-38.3	
5	400 kV	KOLHAPUR-KUDGI	D/C	364	347	1.8	2.7	-0.9	
6	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0	
7	220 kV	PONDA-AMBEWADI	S/C	0	59	0.0	1.1	-1.1	
8	220 kV	XELDEM-AMBEWADI	S/C	0	63	1.2	0.0	1.2	
						WR-SR	3.8	83.2	-79.4

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	59	30	33	0.8
	ER	MANGDECHHU (4 x 180) ALIPURDUAR RECEIPT	299	156	149	3.6
	ER	TALA (6 * 170) BINAGURI RECEIPT	204	110	180	4.3
	NER	132KV-SALAKATI - GELEPHU	23	0	-12	-0.3
	NER	132KV-RANGIA - DEOTHANG	4	0	4	0.1
NEPAL	NR	132KV-Tanakpur(NH) - Mahendranagar(PG)	0	0	0	-0.6
	ER	132KV-BIHAR - NEPAL	-54	-3	-22	-0.5
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-254	-94	-128	-3.1
BANGLADESH	ER	Bheramara HVDC(Bangladesh)	-956	-262	-453	-10.9
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	72	0	-49	-1.2
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	71	0	-49	-1.2