



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: 16th 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 15.04.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.5.5.1 के प्रावधान के अनुसार, दिनांक 15-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 15th 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: 16-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)	38909	36520	33769	16450	1093	126741
Peak Shortage (MW)	509	0	0	0	859	1368
Energy Met (MU)	777	929	863	340	29	2938
Hydro Gen (MU)	187	51	88	59	3	388
Wind Gen (MU)	15	46	32	-	-	94
Solar Gen (MU)*	37.41	24.50	91.94	4.63	0.04	159
Energy Shortage (MU)	9.7	0.0	0.0	0.0	5.3	15.0
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	39698	41225	42354	16938	1659	129431
Time Of Maximum Demand Met (From NLDC SCADA)	19:43	06:49	11:53	00:01	09:01	22:43

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	0.25	3.96	4.21	74.88	20.90

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	4101	0	84.5	67.9	0.1	239	0.0
	Haryana	5302	0	91.5	83.5	0.2	187	0.0
	Rajasthan	8665	0	170.4	64.9	0.2	400	0.0
	Delhi	2997	0	62.8	52.2	-1.6	137	0.0
	UP	16514	0	289.0	119.1	-1.1	732	0.0
	Uttarakhand	1114	0	22.1	5.0	0.1	143	0.0
	HP	772	0	13.3	-3.4	-1.1	118	0.0
	J&K(UT) & Ladakh(UT)	2037	509	40.7	28.0	-1.3	257	9.7
	Chandigarh	154	0	2.9	3.0	0.0	9	0.0
	Chhattisgarh	3210	0	77.5	22.9	-1.5	207	0.0
WR	Gujarat	11823	0	261.7	81.7	0.7	681	0.0
	MP	8979	0	180.7	114.9	-2.7	421	0.0
	Maharashtra	17642	0	395.0	157.6	0.5	468	0.0
	Goa	392	0	7.9	8.1	-0.3	34	0.0
	DD	102	0	2.2	2.2	0.0	37	0.0
	DNH	112	0	2.4	2.5	-0.1	28	0.0
	Essar steel	231	0	1.3	1.3	0.0	119	0.0
SR	Andhra Pradesh	8025	0	163.0	92.4	0.5	460	0.0
	Telangana	7374	0	159.7	64.8	0.2	519	0.0
	Karnataka	10997	0	217.0	63.3	1.8	594	0.0
	Kerala	3588	0	70.6	50.1	1.7	228	0.0
	Tamil Nadu	10738	0	248.2	170.4	0.9	418	0.0
	Puducherry	255	0	4.9	4.9	0.0	49	0.0
ER	Bihar	4376	0	70.3	73.0	-3.7	236	0.0
	DVC	1510	0	31.0	-26.3	0.7	260	0.0
	Jharkhand	1174	0	21.8	16.2	-0.3	194	0.0
	Odisha	3477	0	77.8	7.6	0.6	482	0.0
	West Bengal	7043	0	137.6	37.8	0.5	372	0.0
NER	Sikkim	102	0	1.3	1.5	-0.2	11	0.0
	Arunachal Pradesh	55	23	1.2	1.1	0.1	57	0.5
	Assam	977	21	16.4	14.1	-0.4	134	4.0
	Manipur	121	2	1.9	1.9	-0.1	26	0.2
	Meghalaya	217	0	3.6	3.5	-0.3	52	0.1
	Mizoram	66	8	1.3	1.3	-0.1	43	0.3
	Nagaland	85	1	1.7	1.9	-0.2	16	0.1
	Tripura	197	3	3.4	3.4	-0.5	37	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	11.2	-1.9	-12.7
Day Peak (MW)	782.1	-297.9	-772.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	137.1	-213.6	144.4	-64.9	-3.1	-0.1
Actual(MU)	123.0	-226.4	171.3	-76.5	-3.2	-11.8
O/D/U/D(MU)	-14.1	-12.8	26.9	-11.6	-0.2	-11.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	6837	18406	9162	3325	899	38628
State Sector	20058	25882	14275	7570	11	67796
Total	26895	44287	23437	10895	910	106424

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	323	891	362	380	9	1965
Lignite	23	11	44	0	0	77
Hydro	187	51	89	59	3	388
Nuclear	23	37	47	0	0	106
Gas, Naptha & Diesel	23	90	20	0	27	160
RES (Wind, Solar, Biomass & Others)	85	82	147	5	0	318
Total	664	1161	707	444	38	3015
Share of RES in total generation (%)	12.76	7.06	20.72	1.04	0.11	10.54
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	44.36	14.56	39.85	14.41	6.89	26.93

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.096
Based on State Max Demands	1.117

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: 16-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	6.2	-6.2	
3	765 kV	GAYA-VARANASI	D/C	133	596	0.0	6.0	-6.0	
4	765 kV	SASARAM-FATEHPUR	S/C	118	289	0.0	0.9	-0.9	
5	765 kV	GAYABALLA	S/C	0	379	0.0	4.7	-4.7	
6	400 kV	PUSAULI-VARANASI	S/C	0	222	0.0	4.5	-4.5	
7	400 kV	PUSAULI-ALLAHABAD	S/C	0	129	0.0	1.6	-1.6	
8	400 kV	MUZAFFARPUR-GORAKHPUR	D/C	0	792	0.0	10.4	-10.4	
9	400 kV	PATNA-BALLIA	Q/C	0	737	0.0	10.3	-10.3	
10	400 kV	BIHARSHARIFF-BALLIA	D/C	0	376	0.0	5.1	-5.1	
11	400 kV	MOTIHARI-GORAKHPUR	D/C	0	234	0.0	3.7	-3.7	
12	400 kV	BIHARSHARIFF-VARANASI	D/C	163	275	0.0	0.6	-0.6	
13	220 kV	PUSAULI-SAHUPURI	S/C	0	201	0.0	3.7	-3.7	
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	0.6	57.7	-57.2
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1308	0	24.7	0.0	24.7	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	666	640	2.4	0.0	2.4	
3	765 kV	JHARSUGUDA-DURG	D/C	58	88	0.0	1.3	-1.3	
4	400 kV	JHARSUGUDA-RAIGARH	Q/C	31	337	0.0	3.2	-3.2	
5	400 kV	RANCHI-SIPAT	D/C	244	228	1.1	0.0	1.1	
6	220 kV	BUDHIPADAR-RAIGARH	S/C	0	156	0.0	2.4	-2.4	
7	220 kV	BUDHIPADAR-KORBA	D/C	142	0	1.8	0.0	1.8	
						ER-WR	30.1	7.0	23.1
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZIWAKA B/B	D/C	0	486	0.0	7.8	-7.8	
2	HVDC	TALCHER-KOLAR BIPOLE	D/C	0	1785	0.0	39.2	-39.2	
3	765 kV	ANGUL-SRIKAKULAM	D/C	0	3060	0.0	58.4	-58.4	
4	400 kV	TALCHER-I/C	D/C	707	802	2.8	0.0	2.8	
5	220 kV	BALIMELA-UPPER-SILERRU	S/C	1	0	0.0	0.0	0.0	
						ER-SR	0.0	105.4	-105.4
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	D/C	443	0	6.0	0.0	6.0	
2	400 kV	ALIPURDUAR-BONGAIGAON	D/C	632	0	7.4	0.0	7.4	
3	220 kV	ALIPURDUAR-SALAKATI	D/C	129	0	1.6	0.0	1.6	
						ER-NER	15.0	0.0	15.0
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	-	491	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	325	0.0	15.2	-15.2	
2	HVDC	V'CHAL B/B	D/C	94	52	0.2	1.1	-0.9	
3	HVDC	APL -MHG	D/C	0	789	0.0	19.4	-19.4	
4	765 kV	GWALIOR-AGRA	D/C	0	2150	0.0	30.7	-30.7	
5	765 kV	PHAGI-GWALIOR	D/C	0	1189	0.0	17.8	-17.8	
6	765 kV	JABALPUR-ORAI	D/C	0	731	0.0	19.1	-19.1	
7	765 kV	GWALIOR-ORAI	S/C	537	0	9.8	0.0	9.8	
8	765 kV	SAJNA-ORAI	S/C	0	1756	0.0	25.1	-25.1	
9	765 kV	CHITORGARH-BANASKANTHA	D/C	668	611	0.2	0.5	-0.3	
10	400 kV	ZERDA-KANKROLI	S/C	222	30	2.3	0.0	2.3	
11	400 kV	ZERDA -BHINMAL	S/C	278	43	3.6	0.0	3.6	
12	400 kV	V'CHAL -RIHAND	S/C	957	0	21.8	0.0	21.8	
13	400 kV	RAPP-SHUJALPUR	D/C	258	188	0.7	0.0	0.7	
14	220 kV	BHANPURA-RANPUR	S/C	50	47	0.0	0.5	-0.5	
15	220 kV	BHANPURA-MORAK	S/C	0	69	0.0	0.9	-0.9	
16	220 kV	MEHGAON-AURAIYA	S/C	127	0	1.5	0.0	1.5	
17	220 kV	MALANPUR-AURAIYA	S/C	93	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	40.9	130.3	-89.4
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	518	0.0	12.2	-12.2	
2	HVDC	BARSUR-L-SILERRU	-	0	0	0.0	0.0	0.0	
3	765 kV	SOLAPUR-RAICHUR	D/C	0	2562	0.0	40.6	-40.6	
4	765 kV	WARDHA-NIZAMABAD	D/C	0	2777	0.0	49.3	-49.3	
5	400 kV	KOLHAPUR-KUDGI	D/C	255	584	0.5	7.4	-6.9	
6	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0	
7	220 kV	PONDA-AMBEWADI	S/C	0	56	0.0	1.1	-1.1	
8	220 kV	XELDEM-AMBEWADI	S/C	0	66	1.3	0.0	1.3	
						WR-SR	1.8	110.6	-108.8

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	83	34	28	0.7
	ER	MANGDECHHU (4 x 180) ALIPURDUAR RECEIPT	297	296	219	5.3
	ER	TALA (6 * 170) BINAGURI RECEIPT	263	130	196	4.7
	NER	132KV-SALAKATI - GELEPHU	15	0	-5	-0.1
	NER	132KV-RANGIA - DEOTHANG	9	0	16	0.4
NEPAL	NR	132KV-Tanakpur(NH) - Mahendranagar(PG)	0	0	0	-0.3
	ER	132KV-BIHAR - NEPAL	-17	-2	-2	-0.1
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-234	-2	-64	-1.5
BANGLADESH	ER	Bheramara HVDC(Bangladesh)	-648	-260	-423	-10.2
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	62	0	-53	-1.3
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	62	0	-53	-1.3