



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: 18th 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 17.04.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.5.5.1 के प्रावधान के अनुसार, दिनांक 17-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 17th 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: 18-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)	37496	37593	34127	16248	1922	127386
Peak Shortage (MW)	448	0	0	0	174	622
Energy Met (MU)	777	957	875	348	29	2986
Hydro Gen (MU)	186	62	94	51	4	397
Wind Gen (MU)	31	54	24	-	-	109
Solar Gen (MU)*	32.41	24.70	89.40	4.73	0.04	151
Energy Shortage (MU)	9.3	0.0	0.7	0.0	5.6	15.6
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	38621	41029	40809	16697	2003	129954
Time Of Maximum Demand Met (From NLDC SCADA)	19:42	07:06	14:48	19:55	18:36	22:25

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	0.035	0.00	0.00	4.19	4.19	80.49	15.32

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	4346	0	83.3	66.5	-3.2	61	0.0
	Haryana	4923	0	89.2	82.4	-0.4	258	0.0
	Rajasthan	8509	0	169.2	48.1	-5.0	433	0.0
	Delhi	3114	0	65.2	53.3	-0.3	92	0.0
	UP	15817	0	290.0	124.8	-2.8	984	0.0
	Uttarakhand	1163	0	22.9	5.9	1.0	116	0.0
	HP	826	0	14.1	-2.4	0.1	301	0.0
	J&K(UT) & Ladakh(UT)	1841	460	39.7	28.2	-3.5	139	9.3
	Chandigarh	143	0	2.9	2.9	0.0	38	0.0
	Chhattisgarh	3473	0	83.4	23.0	2.3	179	0.0
WR	Gujarat	12051	0	269.0	71.0	3.7	553	0.0
	MP	8958	0	188.7	110.5	-1.7	345	0.0
	Maharashtra	18077	0	401.9	153.2	1.0	621	0.0
	Goa	399	0	8.1	8.0	0.0	61	0.0
	DD	108	0	2.4	2.3	0.1	19	0.0
	DNH	120	0	2.6	2.6	0.0	47	0.0
	AMNSIL	223	0	1.0	0.8	0.2	134	0.0
SR	Andhra Pradesh	8400	0	166.6	102.0	0.3	445	0.0
	Telangana	7497	0	157.7	64.7	0.3	392	0.0
	Karnataka	11398	0	219.0	58.0	1.1	584	0.0
	Kerala	3658	240	71.0	45.5	1.1	237	0.7
	Tamil Nadu	11291	0	254.9	175.7	0.3	394	0.0
	Puducherry	273	0	5.2	5.3	-0.1	20	0.0
ER	Bihar	4530	0	82.9	82.4	-0.4	620	0.0
	DVC	1495	0	30.8	-26.2	0.3	352	0.0
	Jharkhand	1238	0	24.6	15.4	0.5	158	0.0
	Odisha	3667	0	77.9	10.0	0.0	324	0.0
	West Bengal	6261	0	130.9	32.7	0.7	430	0.0
NER	Sikkim	92	0	1.2	1.5	-0.3	13	0.0
	Arunachal Pradesh	72	2	1.4	1.2	0.1	25	0.1
	Assam	1150	130	15.2	12.4	-0.2	89	5.0
	Manipur	168	3	1.9	1.9	0.0	33	0.2
	Meghalaya	267	0	3.6	2.9	-0.2	28	0.1
	Mizoram	85	1	1.6	1.3	0.3	17	0.1
	Nagaland	116	2	2.0	1.8	0.1	9	0.1
	Tripura	227	1	3.2	3.3	-0.8	69	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	8.0	-1.7	-13.3
Day Peak (MW)	633.5	-214.0	-1070.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	137.8	-223.4	156.0	-67.9	-2.8	-0.3
Actual(MU)	111.0	-230.8	186.1	-70.5	-7.5	-11.7
O/D/U/D(MU)	-26.8	-7.4	30.2	-2.7	-4.7	-11.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	6837	19666	9702	2225	649	39078
State Sector	18723	24489	13738	6862	11	63823
Total	25560	44154	23440	9087	660	102901

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	333	891	367	387	7	1985
Lignite	19	14	42	0	0	74
Hydro	186	62	94	51	4	397
Nuclear	23	36	47	0	0	107
Gas, Naptha & Diesel	23	96	20	0	27	166
RES (Wind, Solar, Biomass & Others)	94	90	135	5	0	324
Total	679	1188	706	443	38	3053
Share of RES in total generation (%)	13.83	7.54	19.19	1.07	0.11	10.60
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	44.73	15.79	39.22	12.58	11.51	27.12

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.071
Based on State Max Demands	1.123

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: 18-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	3	251	0.0	5.4	-5.4	
3	765 kV	GAYA-VARANASI	D/C	230	646	0.0	7.2	-7.2	
4	765 kV	SASARAM-FATEHPUR	S/C	206	249	0.0	0.7	-0.7	
5	765 kV	GAYABALLA	S/C	0	372	0.0	5.4	-5.4	
6	400 kV	PUSAULI-VARANASI	S/C	0	229	0.0	4.1	-4.1	
7	400 kV	PUSAULI-ALLAHABAD	S/C	99	126	0.0	1.1	-1.1	
8	400 kV	MUZAFFARPUR-GORAKHPUR	D/C	20	743	0.0	9.0	-9.0	
9	400 kV	PATNA-BALLA	Q/C	0	775	0.0	10.2	-10.2	
10	400 kV	BIHARSHARIF-BALLA	D/C	0	386	0.0	3.8	-3.8	
11	400 kV	MOTIHARI-GORAKHPUR	D/C	0	239	0.0	3.9	-3.9	
12	400 kV	BIHARSHARIF-VARANASI	D/C	243	270	0.1	0.0	0.1	
13	220 kV	PUSAULI-SAHUPURI	S/C	35	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	0.5	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	0.6	54.5	-53.8
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1520	0	27.5	0.0	27.5	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	949	274	9.1	0.0	9.1	
3	765 kV	JHARSUGUDA-DURG	D/C	106	161	0.0	0.2	-0.2	
4	400 kV	JHARSUGUDA-RAIGARH	Q/C	102	236	0.0	2.1	-2.1	
5	400 kV	RANCHI-SIPAT	D/C	330	107	2.9	0.0	2.9	
6	220 kV	BUDHIPADAR-RAIGARH	S/C	0	124	0.0	2.1	-2.1	
7	220 kV	BUDHIPADAR-KORBA	D/C	181	0	2.9	0.0	2.9	
						ER-WR	42.4	4.4	38.1
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0	331	0.0	7.5	-7.5	
2	HVDC	TALCHER-KOLAR BIPOLE	D/C	0	1982	0.0	46.5	-46.5	
3	765 kV	ANGUL-SRIKAKULAM	D/C	0	2806	0.0	56.7	-56.7	
4	400 kV	TALCHER-I/C	D/C	0	1249	0.0	15.1	-15.1	
5	220 kV	BALIMELA-UPPER-SILERRU	S/C	1	0	0.0	0.0	0.0	
						ER-SR	0.0	110.7	-110.7
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAOON	D/C	442	0	6.8	0.0	6.8	
2	400 kV	ALIPURDUAR-BONGAIGAOON	D/C	666	0	10.2	0.0	10.2	
3	220 kV	ALIPURDUAR-SALAKATI	D/C	138	0	2.0	0.0	2.0	
						ER-NER	19.0	0.0	19.0
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	3.5	-3.5	
2	HVDC	V'CHAL B/B	D/C	185	0	4.9	0.0	4.9	
3	HVDC	APL -MHG	D/C	0	694	0.0	17.0	-17.0	
4	765 kV	GWALIOR-AGRA	D/C	0	2349	0.0	40.0	-40.0	
5	765 kV	PHAGI-GWALIOR	D/C	0	994	0.0	14.3	-14.3	
6	765 kV	JABALPUR-ORAI	D/C	0	770	0.0	23.2	-23.2	
7	765 kV	GWALIOR-ORAI	S/C	500	0	8.8	0.0	8.8	
8	765 kV	SATNA-ORAI	S/C	0	1300	0.0	26.1	-26.1	
9	765 kV	CHITORGARH-BANASKANTHA	D/C	588	673	2.9	5.9	-3.0	
10	400 kV	ZERDA-KANKROLI	S/C	268	43	2.0	0.0	2.0	
11	400 kV	ZERDA -BHINMAL	S/C	577	94	4.6	0.0	4.6	
12	400 kV	V'CHAL -RIHAND	S/C	962	0	23.1	0.0	23.1	
13	400 kV	RAPP-SHUJALPUR	D/C	422	195	1.0	0.0	1.0	
14	220 kV	BHANPURA-RANPUR	S/C	44	52	0.0	0.8	-0.8	
15	220 kV	BHANPURA-MORAK	S/C	0	81	0.0	1.2	-1.2	
16	220 kV	MEHGAON-AURAIYA	S/C	106	0	1.1	0.0	1.1	
17	220 kV	MALANPUR-AURAIYA	S/C	74	7	0.5	0.0	0.5	
18	132 kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
						WR-NR	48.9	131.9	-83.0
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	989	0.0	22.5	-22.5	
2	HVDC	BARSHUR-L-SILERRU	-	0	0	0.0	0.0	0.0	
3	765 kV	SOLAPUR-RAICHUR	D/C	0	2136	0.0	36.1	-36.1	
4	765 kV	WARDHA-NIZAMABAD	D/C	0	2315	0.0	44.1	-44.1	
5	400 kV	KOLHAPUR-KUDGI	D/C	49	463	0.0	5.7	-5.7	
6	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0	
7	220 kV	PONDA-AMBEWADI	S/C	2	62	0.0	1.2	-1.2	
8	220 kV	XELDEM-AMBEWADI	S/C	0	66	1.3	0.0	1.3	
						WR-SR	1.3	109.7	-108.4

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	47	9	12	0.3
	ER	MANGDECHHU (4 x 180) ALIPURDUAR RECEIPT	209	207	176	4.2
	ER	TALA (6 * 170) BINAGURI RECEIPT	240	113	149	3.6
	NER	132KV-SALAKATI - GELEPHU	25	0	-9	-0.2
	NER	132KV-RANGIA - DEOTHANG	5	0	5	0.1
NEPAL	NR	132KV-Tanakpur(NH) - Mahendranagar(PG)	0	0	0	0.0
	ER	132KV-BIHAR - NEPAL	-10	-1	-5	-0.1
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-204	-4	-67	-1.6
BANGLADESH	ER	Bheramara HVDC(Bangladesh)	-940	-206	-451	-10.8
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	65	0	-52	-1.2
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	65	0	-52	-1.2