



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: 17th 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 16.04.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.5.5.1 के प्रावधान के अनुसार, दिनांक 16-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 16th 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: 17-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)	39134	36971	33969	16252	2012	128338
Peak Shortage (MW)	506	0	0	0	152	658
Energy Met (MU)	786	942	870	342	29	2969
Hydro Gen (MU)	191	53	85	55	3	388
Wind Gen (MU)	14	62	28	-	-	104
Solar Gen (MU)*	27.10	27.10	90.64	4.74	0.04	150
Energy Shortage (MU)	10.3	0.0	0.0	0.0	5.5	15.8
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	39991	40941	39971	16840	2101	132448
Time Of Maximum Demand Met (From NLDC SCADA)	19:58	06:48	13:46	19:37	18:47	22:24

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	0.03	5.79	5.82	76.60	17.58

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	4540	0	85.4	69.0	-1.5	137	0.0
	Haryana	5387	0	91.8	84.4	0.1	215	0.0
	Rajasthan	8760	0	169.7	64.9	-3.1	242	0.0
	Delhi	3160	0	63.0	53.5	-1.6	80	0.0
	UP	16785	0	293.3	121.5	-0.8	960	0.0
	Uttarakhand	1194	0	22.5	5.3	0.6	147	0.0
	HP	779	0	14.0	-3.4	-0.1	76	0.0
	J&K(UT) & Ladakh(UT)	2040	510	42.9	27.8	-0.9	176	10.3
	Chandigarh	150	0	3.0	3.0	0.0	19	0.0
	Chhattisgarh	3346	0	78.3	23.3	-1.2	186	0.0
WR	Gujarat	11754	0	264.5	79.8	-1.6	656	0.0
	MP	8782	0	182.2	101.7	-1.7	807	0.0
	Maharashtra	18049	0	402.2	158.8	0.5	419	0.0
	Goa	393	0	8.2	8.1	0.0	47	0.0
	DD	120	0	2.3	2.4	-0.1	12	0.0
	DNH	115	0	2.5	2.5	0.0	34	0.0
	AMNSIL	236	0	1.6	1.3	0.3	131	0.0
SR	Andhra Pradesh	8204	0	165.0	99.4	0.6	386	0.0
	Telangana	7458	0	157.8	63.6	-0.1	399	0.0
	Karnataka	11337	0	219.8	64.3	0.8	455	0.0
	Kerala	3523	0	69.5	46.7	1.0	214	0.0
	Tamil Nadu	11051	0	252.5	172.9	0.4	370	0.0
	Puducherry	261	0	5.1	5.2	-0.1	60	0.0
ER	Bihar	4553	0	82.7	80.7	1.1	374	0.0
	DVC	1498	0	31.0	-26.2	0.2	361	0.0
	Jharkhand	1277	0	23.5	16.0	-1.2	143	0.0
	Odisha	3698	0	76.2	5.1	0.5	278	0.0
	West Bengal	6181	0	127.2	30.4	0.9	470	0.0
NER	Sikkim	91	0	1.2	1.6	-0.4	5	0.0
	Arunachal Pradesh	71	1	1.3	1.0	0.2	30	0.3
	Assam	1210	62	15.9	13.2	-0.1	119	4.5
	Manipur	158	2	1.8	1.9	-0.1	21	0.2
	Meghalaya	260	0	3.7	3.0	-0.2	28	0.1
	Mizoram	84	1	1.6	1.3	0.2	14	0.3
	Nagaland	117	1	1.9	1.6	0.3	12	0.1
	Tripura	255	5	3.2	3.0	-0.4	27	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	8.3	-1.9	-13.6
Day Peak (MW)	654.4	-216.7	-1085.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	148.7	-230.8	151.7	-65.7	-4.0	-0.1
Actual(MU)	138.9	-248.0	178.6	-69.7	-2.7	-2.8
O/D/U/D(MU)	-9.8	-17.2	26.9	-4.0	1.3	-2.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	6837	18706	9452	2225	649	37868
State Sector	19533	24707	14275	7570	11	66096
Total	26370	43412	23727	9795	660	103964

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	333	904	371	379	6	1993
Lignite	24	11	43	0	0	78
Hydro	191	53	85	55	3	388
Nuclear	23	36	47	0	0	107
Gas, Naptha & Diesel	23	91	20	0	28	162
RES (Wind, Solar, Biomass & Others)	71	102	142	5	0	319
Total	665	1198	708	439	37	3047
Share of RES in total generation (%)	10.71	8.49	20.00	1.08	0.11	10.48
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	42.93	15.99	38.68	13.70	8.72	26.72

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.056
Based on State Max Demands	1.109

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: 17-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	5.8	-5.8	
3	765 kV	GAYA-VARANASI	D/C	139	636	0.0	6.3	-6.3	
4	765 kV	SASARAM-FATEHPUR	S/C	268	256	0.0	0.2	-0.2	
5	765 kV	GAYABALLIA	S/C	0	366	0.0	5.2	-5.2	
6	400 kV	PUSAULI-VARANASI	S/C	0	230	0.0	4.5	-4.5	
7	400 kV	PUSAULI-ALLAHABAD	S/C	0	126	0.0	1.7	-1.7	
8	400 kV	MUZAFFARPUR-GORAKHPUR	D/C	41	793	0.0	8.5	-8.5	
9	400 kV	PATNA-BALLIA	Q/C	0	811	0.0	11.0	-11.0	
10	400 kV	BIHARSHARIFF-BALLIA	D/C	8	396	0.0	4.0	-4.0	
11	400 kV	MOTIHARI-GORAKHPUR	D/C	0	254	0.0	4.2	-4.2	
12	400 kV	BIHARSHARIFF-VARANASI	D/C	245	259	0.0	0.1	-0.1	
13	220 kV	PUSAULI-SAHUPURI	S/C	0	209	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	55.2	-54.6
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1472	0	27.4	0.0	27.4	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	918	249	7.6	0.0	7.6	
3	765 kV	JHARSUGUDA-DURG	D/C	89	147	0.0	0.5	-0.5	
4	400 kV	JHARSUGUDA-RAIGARH	Q/C	65	233	0.0	2.1	-2.1	
5	400 kV	RANCHI-SIPAT	D/C	333	100	2.7	0.0	2.7	
6	220 kV	BUDHIPADAR-RAIGARH	S/C	0	133	0.0	2.2	-2.2	
7	220 kV	BUDHIPADAR-KORBA	D/C	163	0	2.7	0.0	2.7	
						ER-WR	40.4	4.8	35.5
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0	486	0.0	7.5	-7.5	
2	HVDC	TALCHER-KOLAR BIPOLE	D/C	0	1982	0.0	47.3	-47.3	
3	765 kV	ANGUL-SRIKAKULAM	D/C	0	2791	0.0	56.2	-56.2	
4	400 kV	TALCHER-I/C	D/C	103	968	0.0	8.0	-8.0	
5	220 kV	BALIMELA-UPPER-SILERRU	S/C	1	0	0.0	0.0	0.0	
						ER-SR	0.0	111.0	-111.0
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	D/C	371	0	5.9	0.0	5.9	
2	400 kV	ALIPURDUAR-BONGAIGAON	D/C	559	0	7.9	0.0	7.9	
3	220 kV	ALIPURDUAR-SALAKATI	D/C	114	1	1.7	0.0	1.7	
						ER-NER	15.4	0.0	15.4
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	-	490	0	11.8	0.0	11.8	
						NER-NR	11.8	0.0	11.8
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	D/C	0	329	0.0	9.6	-9.6	
2	HVDC	V'CHAL B/B	D/C	361	0	5.3	0.0	5.3	
3	HVDC	APL -MHG	D/C	0	947	0.0	19.5	-19.5	
4	765 kV	GWALIOR-AGRA	D/C	0	2465	0.0	39.9	-39.9	
5	765 kV	PHAGI-GWALIOR	D/C	0	1215	0.0	18.6	-18.6	
6	765 kV	JABALPUR-ORAI	D/C	0	808	0.0	23.6	-23.6	
7	765 kV	GWALIOR-ORAI	S/C	533	0	9.8	0.0	9.8	
8	765 kV	SATNA-ORAI	S/C	0	1337	0.0	27.0	-27.0	
9	765 kV	CHITORGARH-BANASKANTHA	D/C	392	687	2.2	6.4	-4.2	
10	400 kV	ZERDA-KANKROLI	S/C	183	64	1.7	0.2	1.5	
11	400 kV	ZERDA -BHINMAL	S/C	322	135	2.6	0.3	2.3	
12	400 kV	V'CHAL -RIHAND	S/C	965	0	22.4	0.0	22.4	
13	400 kV	RAPP-SHUALPUR	D/C	226	236	1.1	1.3	-0.2	
14	220 kV	BHANPURA-RANPUR	S/C	40	46	0.0	0.9	-0.9	
15	220 kV	BHANPURA-MORAK	S/C	0	91	0.0	1.4	-1.4	
16	220 kV	MEHGAON-AURAIYA	S/C	106	0	1.1	0.0	1.1	
17	220 kV	MALANPUR-AURAIYA	S/C	76	8	0.5	0.0	0.5	
18	132 kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
						WR-NR	46.7	148.9	-102.2
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	992	0.0	21.7	-21.7	
2	HVDC	BARSUR-L-SILERRU	-	0	0	0.0	0.0	0.0	
3	765 kV	SOLAPUR-RAICHUR	D/C	0	2287	0.0	36.6	-36.6	
4	765 kV	WARDHA-NIZAMABAD	D/C	0	2609	0.0	45.4	-45.4	
5	400 kV	KOLHAPUR-KUDGI	D/C	177	523	0.1	6.1	-6.0	
6	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0	
7	220 kV	PONDA-AMBEWADI	S/C	2	74	0.0	1.1	-1.1	
8	220 kV	XELDEM-AMBEWADI	S/C	0	66	1.3	0.0	1.3	
						WR-SR	1.4	111.0	-109.5

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	90	29	10	0.2
	ER	MANGDECHHU (4 x 180) ALIPURDUAR RECEIPT	213	201	172	4.1
	ER	TALA (6 * 170) BINAGURI RECEIPT	213	157	150	3.6
	NER	132KV-SALAKATI - GELEPHU	16	0	-5	-0.1
NEPAL	NER	132KV-RANGIA - DEOTHANG	3	0	13	0.3
	NR	132KV-Tanakpur(NH) - Mahendranagar(PG)	0	0	0	0.0
	ER	132KV-BIHAR - NEPAL	-9	-2	-5	-0.1
BANGLADESH	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-208	-20	-76	-1.8
	ER	Bheramara HVDC(Bangladesh)	-948	-248	-465	-11.2
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	69	0	-52	-1.3
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	68	0	-52	-1.2