



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 May 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 16.05.2020.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.5.5.1 के प्रावधान के अनुसार, दिनांक 16-मई-2020 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रांभांप्रेके 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 May 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-May-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)	43861	40948	36537	18516	2317	142179
Peak Shortage (MW)	1085	0	0	0	154	1239
Energy Met (MU)	1008	1031	917	415	39	3410
Hydro Gen (MU)	277	35	80	79	10	482
Wind Gen (MU)	6	63	49	-	-	118
Solar Gen (MU)*	41.00	26.40	73.61	4.82	0.04	146
Energy Shortage (MU)	12.0	0.0	0.0	0.0	1.7	13.6
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	47336	46085	41792	19081	2389	149008
Time Of Maximum Demand Met (From NLDC SCADA)	22:15	15:31	12:19	00:04	19:05	22:31

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	0.021	0.00	0.00	1.50	1.50	82.49	16.01

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	6114	0	129.8	100.3	-0.1	156	0.0
	Haryana	6305	0	128.5	118.2	0.8	294	0.0
	Rajasthan	10525	0	225.2	84.4	1.1	320	0.0
	Delhi	3848	0	73.3	59.1	-2.7	0	0.0
	UP	18278	310	350.6	178.7	1.0	1124	1.6
	Uttarakhand	1462	0	30.5	12.6	0.7	166	0.0
	HP	1160	0	22.4	0.2	0.7	156	0.0
	J&K(UT) & Ladakh(UT)	2132	533	43.8	21.1	-0.2	362	10.3
WR	Chandigarh	166	0	3.5	3.5	0.0	25	0.0
	Chhattisgarh	3314	0	76.5	24.4	-1.2	159	0.0
	Gujarat	14247	0	306.5	94.9	2.7	514	0.0
	MP	9105	0	205.5	121.8	-1.0	376	0.0
	Maharashtra	18534	0	405.1	145.9	-0.2	685	0.0
	Goa	460	0	8.9	8.7	-0.2	119	0.0
	DD	196	0	4.3	4.2	0.1	25	0.0
	AMNSIL	769	0	16.2	3.2	1.0	266	0.0
SR	Andhra Pradesh	9506	0	185.5	101.5	1.2	748	0.0
	Telangana	7258	0	152.8	61.0	-0.2	417	0.0
	Karnataka	10423	0	204.1	65.0	0.7	574	0.0
	Kerala	3570	0	71.2	46.4	0.7	227	0.0
	Tamil Nadu	13159	0	296.5	162.0	0.9	566	0.0
	Puducherry	348	0	7.4	7.6	-0.2	38	0.0
ER	Bihar	5086	0	101.9	95.6	-0.8	265	0.0
	DVC	2423	0	53.0	-29.0	0.1	220	0.0
	Jharkhand	1339	0	25.9	18.4	-1.5	115	0.0
	Odisha	3812	0	81.3	7.8	0.3	190	0.0
	West Bengal	7045	0	151.7	43.6	1.6	330	0.0
NER	Sikkim	75	0	0.9	1.3	-0.4	15	0.0
	Arunachal Pradesh	106	0	1.9	1.7	0.1	31	0.0
	Assam	1353	127	22.1	17.1	-0.4	125	1.5
	Manipur	181	2	2.2	2.3	-0.1	31	0.0
	Meghalaya	323	0	5.1	3.1	-0.3	63	0.1
	Mizoram	98	1	1.5	1.5	-0.1	17	0.0
	Nagaland	118	3	2.4	2.2	0.1	13	0.0
Tripura	259	2	4.2	4.9	-0.3	36	0.0	

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	23.9	-0.4	-25.7
Day Peak (MW)	1342.6	-95.0	-1142.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	226.9	-292.4	148.2	-84.7	1.9	-0.1
Actual(MU)	212.6	-293.8	166.2	-85.2	-1.3	-1.4
O/D/U/D(MU)	-14.3	-1.4	18.0	-0.5	-3.2	-1.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	5625	15678	10152	1721	649	33825
State Sector	18035	22238	10758	5552	11	56594
Total	23660	37915	20910	7273	660	90418

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	368	1075	429	460	7	2339
Lignite	24	16	32	0	0	72
Hydro	277	35	80	79	10	482
Nuclear	27	33	47	0	0	107
Gas, Naptha & Diesel	34	78	18	0	30	161
RES (Wind, Solar, Biomass & Others)	73	103	158	5	0	339
Total	803	1340	765	544	47	3500

Share of RES in total generation (%)	9.11	7.72	20.60	0.89	0.08	9.69
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	47.04	12.77	37.27	15.47	21.63	26.53

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.052
Based on State Max Demands	1.097

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-May-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	248	0.0	6.1	-6.1	
3	765 kV	GAYA-VARANASI	D/C	0	541	0.0	5.9	-5.9	
4	765 kV	SASARAM-FATEHPUR	S/C	132	148	0.0	0.7	-0.7	
5	765 kV	GAYA-BALIA	S/C	0	324	0.0	5.6	-5.6	
6	400 kV	PUSAULI-VARANASI	S/C	0	221	0.0	4.4	-4.4	
7	400 kV	PUSAULI-ALLAHABAD	S/C	0	106	0.0	1.5	-1.5	
8	400 kV	MUZAFFARPUR-GORAKHPUR	D/C	0	746	0.0	9.8	-9.8	
9	400 kV	PATNA-BALIA	Q/C	0	659	0.0	10.0	-10.0	
10	400 kV	BIHARSHARIFF-BALIA	D/C	0	216	0.0	2.2	-2.2	
11	400 kV	MOTIHARI-GORAKHPUR	D/C	0	337	0.0	5.3	-5.3	
12	400 kV	BIHARSHARIFF-VARANASI	D/C	112	193	0.0	0.4	-0.4	
13	220 kV	PUSAULI-SAHUPURI	S/C	0	228	0.0	3.4	-3.4	
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	55.2	-54.7
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1484	0	21.0	0.0	21.0	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	1124	0	15.3	0.0	15.3	
3	765 kV	JHARSUGUDA-DURG	D/C	172	122	0.3	0.0	0.3	
4	400 kV	JHARSUGUDA-RAIGARH	Q/C	168	68	1.6	0.0	1.6	
5	400 kV	RANCHI-SIPAT	D/C	398	0	6.4	0.0	6.4	
6	220 kV	BUDHIPADAR-RAIGARH	S/C	0	68	0.0	0.9	-0.9	
7	220 kV	BUDHIPADAR-KORBA	D/C	160	0	2.6	0.0	2.6	
						ER-WR	47.2	0.9	46.3
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0	400	0.0	8.0	-8.0	
2	HVDC	TALCHER-KOLAR BIPOLE	D/C	0	2468	0.0	48.8	-48.8	
3	765 kV	ANGUL-SRIKAKULAM	D/C	0	3137	0.0	61.9	-61.9	
4	400 kV	TALCHER-I/C	D/C	0	903	0.0	4.4	-4.4	
5	220 kV	BALIMELA-UPPER-SILERRU	S/C	1	0	0.0	0.0	0.0	
						ER-SR	0.0	118.7	-118.7
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	D/C	103	190	0.0	1.4	-1.4	
2	400 kV	ALIPURDUAR-BONGAIGAON	D/C	0	395	0.0	5.4	-5.4	
3	220 kV	ALIPURDUAR-SALAKATI	D/C	0	76	0.0	0.9	-0.9	
						ER-NER	0.0	7.6	-7.6
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	-	0	401	0.0	9.6	-9.6	
						NER-NR	0.0	9.6	-9.6
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	D/C	0	1200	0.0	26.2	-26.2	
2	HVDC	V'CHAL B/B	D/C	271	0	4.0	0.0	4.0	
3	HVDC	APL -MHG	D/C	0	1171	0.0	29.1	-29.1	
4	765 kV	GWALIOR-AGRA	D/C	0	2647	0.0	47.0	-47.0	
5	765 kV	PHAGI-GWALIOR	D/C	0	1099	0.0	23.0	-23.0	
6	765 kV	JABALPUR-ORAI	D/C	0	906	0.0	29.6	-29.6	
7	765 kV	GWALIOR-ORAI	S/C	544	0	11.6	0.0	11.6	
8	765 kV	SATNA-ORAI	S/C	0	1460	0.0	31.0	-31.0	
9	765 kV	CHITORGARH-BANASKANTHA	D/C	276	780	0.0	4.9	-4.9	
10	400 kV	ZERDA-KANKROLI	S/C	146	64	1.1	0.0	1.1	
11	400 kV	ZERDA -BHINMAL	S/C	126	151	0.0	0.7	-0.7	
12	400 kV	V'CHAL -RIHAND	S/C	982	0	22.4	0.0	22.4	
13	400 kV	RAPP-SHUJALPUR	D/C	80	219	0.0	2.0	-2.0	
14	220 kV	BHANPURA-RANPUR	S/C	7	80	1.8	0.7	1.1	
15	220 kV	BHANPURA-MORAK	S/C	0	115	0.0	1.8	-1.8	
16	220 kV	MEHGAON-AURAIYA	S/C	83	0	0.1	0.0	0.1	
17	220 kV	MALANPUR-AURAIYA	S/C	59	22	0.6	0.0	0.6	
18	132 kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
						WR-NR	41.6	196.0	-154.4
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	999	0.0	19.5	-19.5	
2	HVDC	BARSUR-LSILERU	-	0	0	0.0	0.0	0.0	
3	765 kV	SOLAPUR-RAICHUR	D/C	0	1846	0.0	30.8	-30.8	
4	765 kV	WARDHA-NIZAMABAD	D/C	0	2491	0.0	45.0	-45.0	
5	400 kV	KOLHAPUR-KUDGI	D/C	224	151	1.3	0.5	0.8	
6	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0	
7	220 kV	PONDA-AMBEWADI	S/C	1	0	0.0	0.0	0.0	
8	220 kV	XELDEM-AMBEWADI	S/C	1	92	1.2	0.0	1.2	
						WR-SR	2.5	95.7	-93.2

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	152	68	96	2.3
	ER	MANGDECHHU (4 x 180) ALIPURDUAR RECEIPT	607	471	420	10.1
	ER	TALA (6 * 170) BINAGURI RECEIPT	428	169	400	9.6
	NER	132KV-SALAKATI - GELEPHU	0	0	5	0.1
	NER	132KV-RANGIA - DEOTHANG	0	0	36	0.9
NEPAL	NR	132KV-Tanakpur(NH) - Mahendranagar(PG)	0	0	0	0.0
	ER	132KV-BIHAR - NEPAL	-9	-2	-6	-0.1
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	104	2	-10	-0.2
BANGLADESH	ER	Bheramara HVDC(Bangladesh)	-960	-756	-929	-22.3
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	91	0	-72	-1.7
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	91	0	-72	-1.7