



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: 20th 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 19.05.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.5.5.1 के प्रावधान के अनुसार, दिनांक 19-मई-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 19th 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: 20-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)	46112	41215	35589	17414	2612	142942
Peak Shortage (MW)	963	0	0	0	70	1033
Energy Met (MU)	1065	1050	837	405	48	3406
Hydro Gen (MU)	269	34	61	95	8	466
Wind Gen (MU)	14	74	161	-	-	248
Solar Gen (MU)*	42.70	27.70	67.77	4.35	0.04	143
Energy Shortage (MU)	10.5	0.0	0.0	0.0	1.0	11.5
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	50084	45911	36754	20236	2683	149919
Time Of Maximum Demand Met (From NLDC SCADA)	22:16	14:50	22:19	00:01	18:49	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	0.026	0.00	0.00	1.83	1.83	75.54	22.63

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	6777	0	143.6	113.7	0.4	212	0.0
	Haryana	6599	0	134.0	119.4	1.9	291	0.0
	Rajasthan	11078	0	231.8	79.3	0.2	419	0.0
	Delhi	4096	0	81.3	66.7	-2.6	34	0.0
	UP	19496	0	370.6	183.8	2.7	610	0.0
	Uttarakhand	1462	0	31.7	13.7	0.6	113	0.0
	HP	1160	0	23.6	1.2	1.5	154	0.0
	J&K(UT) & Ladakh(UT)	2109	527	44.2	23.4	2.3	335	10.4
WR	Chhattisgarh	185	0	3.9	3.8	0.2	24	0.0
	Chhattisgarh	3330	0	76.2	23.9	-0.6	237	0.0
	Gujarat	14242	0	307.0	99.8	1.4	613	0.0
	MP	9311	0	208.3	123.8	0.2	617	0.0
	Maharashtra	19004	0	420.9	143.3	-0.5	1054	0.0
	Goa	478	0	10.5	10.0	0.0	41	0.0
	DD	201	0	4.4	4.1	0.3	20	0.0
	DNH	353	0	7.9	7.9	0.0	32	0.0
	AMNSIL	674	0	14.8	2.8	0.3	267	0.0
	Andhra Pradesh	7789	0	164.7	55.9	1.8	620	0.0
SR	Telangana	7126	0	151.3	59.0	1.4	386	0.0
	Karnataka	8794	0	174.0	49.4	-3.4	511	0.0
	Kerala	3227	0	65.6	42.5	-0.1	178	0.0
	Tamil Nadu	12801	0	274.7	120.7	-3.5	649	0.0
	Puducherry	363	0	6.9	7.2	-0.3	41	0.0
	Bihar	5290	0	102.2	96.4	-0.8	369	0.0
ER	DVC	2425	0	52.7	-28.3	1.1	338	0.0
	Jharkhand	1448	0	26.5	19.4	-1.7	112	0.0
	Odisha	3794	0	74.2	4.5	0.2	262	0.0
	West Bengal	7748	0	148.2	35.1	1.6	403	0.0
	Sikkim	94	0	1.2	1.7	-0.5	19	0.0
NER	Arunachal Pradesh	106	1	1.9	1.8	-0.1	35	0.0
	Assam	1683	40	30.9	24.7	1.1	106	0.9
	Manipur	179	4	2.6	2.4	0.2	31	0.0
	Meghalaya	303	2	5.2	3.3	0.1	30	0.1
	Mizoram	83	3	1.7	1.4	0.1	14	0.0
	Nagaland	128	3	2.1	2.2	-0.2	16	0.0
	Tripura	271	9	4.1	5.5	-0.3	60	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	24.8	-0.6	-25.9
Day Peak (MW)	1445.9	-144.4	-1140.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	262.4	-267.5	100.5	-100.4	5.7	0.6
Actual(MU)	271.3	-271.6	81.1	-91.6	10.8	0.1
O/D/U/D(MU)	8.9	-4.1	-19.4	8.8	5.2	-0.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	5825	16228	12212	1196	649	36110
State Sector	15885	21916	14018	5702	11	57532
Total	21710	38143	26230	6898	660	93641

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	383	1056	332	440	6	2217
Lignite	22	15	31	0	0	68
Hydro	269	34	61	95	8	466
Nuclear	28	33	47	0	0	107
Gas, Naptha & Diesel	33	80	19	0	30	162
RES (Wind, Solar, Biomass & Others)	83	115	273	4	0	475
Total	817	1333	763	539	44	3497

Share of RES in total generation (%)	10.11	8.66	35.76	0.82	0.09	13.59
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	46.34	13.67	49.90	18.41	18.43	30.00

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.038
Based on State Max Demands	1.095

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: 20-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	724	0.0	7.2	-7.2	
4	765 kV	SASARAM-FATEHPUR	S/C	146	233	0.0	1.0	-1.0	
5	765 kV	GAYA-BALIA	S/C	0	470	0.0	7.7	-7.7	
6	400 kV	PUSAULI-VARANASI	S/C	0	240	0.0	4.6	-4.6	
7	400 kV	PUSAULI-ALLAHABAD	S/C	0	101	0.0	1.4	-1.4	
8	400 kV	MUZAFFARPUR-GORAKHPUR	D/C	0	776	0.0	11.6	-11.6	
9	400 kV	PATNA-BALIA	Q/C	0	876	0.0	12.6	-12.6	
10	400 kV	BIHARSHARIFF-BALIA	D/C	0	329	0.0	4.2	-4.2	
11	400 kV	MOTIHARI-GORAKHPUR	D/C	0	347	0.0	5.3	-5.3	
12	400 kV	BIHARSHARIFF-VARANASI	D/C	136	226	0.0	0.7	-0.7	
13	220 kV	PUSAULI-SAHUPURI	S/C	0	191	0.0	3.6	-3.6	
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	65.9	-65.3
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	919	61	7.2	0.0	7.2	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	799	0	10.9	0.0	10.9	
3	765 kV	JHARSUGUDA-DURG	D/C	4	181	0.0	1.9	-1.9	
4	400 kV	JHARSUGUDA-RAIGARH	Q/C	98	104	0.0	0.1	-0.1	
5	400 kV	RANCHI-SIPAT	D/C	307	0	5.2	0.0	5.2	
6	220 kV	BUDHIPADAR-RAIGARH	S/C	0	92	0.0	1.4	-1.4	
7	220 kV	BUDHIPADAR-KORBA	D/C	147	0	2.3	0.0	2.3	
						ER-WR	25.6	3.5	22.1
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0	425	0.0	8.3	-8.3	
2	HVDC	TALCHER-KOLAR BIPOLE	D/C	0	990	0.0	24.1	-24.1	
3	765 kV	ANGUL-SRIKAKULAM	D/C	0	2603	0.0	49.3	-49.3	
4	400 kV	TALCHER-I/C	D/C	917	0	18.0	0.0	18.0	
5	220 kV	BALIMELA-UPPER-SILERRU	S/C	1	0	0.0	0.0	0.0	
						ER-SR	0.0	81.7	-81.7
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	D/C	0	258	0.0	2.9	-2.9	
2	400 kV	ALIPURDUAR-BONGAIGAON	D/C	0	576	0.0	9.1	-9.1	
3	220 kV	ALIPURDUAR-SALAKATI	D/C	0	115	0.0	1.8	-1.8	
						ER-NER	0.0	13.8	-13.8
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	-	0	250	0.0	5.9	-5.9	
						NER-NR	0.0	5.9	-5.9
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	D/C	0	2102	0.0	59.0	-59.0	
2	HVDC	V'CHAL B/B	D/C	0	102	0.0	2.4	-2.4	
3	HVDC	APL -MHG	D/C	0	1917	0.0	39.3	-39.3	
4	765 kV	GWALIOR-AGRA	D/C	0	2664	0.0	51.1	-51.1	
5	765 kV	PHAGI-GWALIOR	D/C	0	1201	0.0	22.7	-22.7	
6	765 kV	JABALPUR-ORAI	D/C	0	914	0.0	34.7	-34.7	
7	765 kV	GWALIOR-ORAI	S/C	629	0	11.7	0.0	11.7	
8	765 kV	SATNA-ORAI	S/C	0	1398	0.0	30.0	-30.0	
9	765 kV	CHITORGARH-BANASKANTHA	D/C	314	555	0.0	2.7	-2.7	
10	400 kV	ZERDA-KANKROLI	S/C	126	32	0.9	0.0	0.9	
11	400 kV	ZERDA -BHINMAL	S/C	163	138	0.0	0.1	-0.1	
12	400 kV	V'CHAL -RIHAND	S/C	990	0	22.7	0.0	22.7	
13	400 kV	RAPP-SHUJALPUR	D/C	155	238	0.0	0.5	-0.5	
14	220 kV	BHANPURA-RANPUR	S/C	18	73	1.7	0.4	1.2	
15	220 kV	BHANPURA-MORAK	S/C	0	96	0.0	0.1	-0.1	
16	220 kV	MEHGAON-AURAIYA	S/C	67	0	0.1	0.2	0.0	
17	220 kV	MALANPUR-AURAIYA	S/C	37	21	0.1	0.0	0.1	
18	132 kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
19	132 kV	RAJGHAT-LALITPUR	D/C	34	31	0.2	0.1	0.0	
						WR-NR	37.4	243.4	-206.0
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	982	0.0	12.4	-12.4	
2	HVDC	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0	
3	HVDC	HVDC-RAIGARH-PUGALUR	D/C	0	447	3.0	0.0	3.0	
4	765 kV	SOLAPUR-RAICHUR	D/C	937	1701	2.9	9.9	-7.0	
5	765 kV	WARDHA-NIZAMABAD	D/C	0	2113	0.0	32.6	-32.6	
6	400 kV	KOLHAPUR-KUDGI	D/C	713	0	9.0	0.0	9.0	
7	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0	
8	220 kV	PONDA-AMBEWADI	S/C	1	0	0.0	0.0	0.0	
9	220 kV	XELDEM-AMBEWADI	S/C	0	88	1.8	0.0	1.8	
						WR-SR	16.6	54.8	-38.2
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	145	98	108	2.6			
	ER	MANGDECHHU (4 x 180) ALIPURDUAR RECEIPT	608	587	423	10.2			
	ER	TALA (6 * 170) BINAGURI RECEIPT	537	341	399	9.6			
	NER	132KV-SALAKATI - GELEPHU	1	0	7	0.2			
	NER	132KV-RANGIA - DEOTHANG	0	0	45	1.1			
NEPAL	NR	132KV-Tanakpur(NH) - Mahendranagar(PG)	0	0	0	-0.2			
	ER	132KV-BIHAR - NEPAL	-29	-1	-8	-0.2			
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-100	-2	-11	-0.3			
BANGLADESH	ER	Bheramara HVDC(Bangladesh)	-958	-760	-923	-22.2			
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	91	0	-75	-1.8			
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	91	0	-79	-1.9			