



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: 23rd 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., डोंगतेह, 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 22.05.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 22-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 22th 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: 23-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)	48994	42771	37842	16481	2256	148344
Peak Shortage (MW)	1398	0	0	0	224	1622
Energy Met (MU)	1164	1087	954	325	39	3569
Hydro Gen (MU)	280	41	97	130	19	567
Wind Gen (MU)	27	118	123	-	-	268
Solar Gen (MU)*	43.63	28.52	84.59	4.61	0.03	161
Energy Shortage (MU)	11.4	0.0	0.0	0.0	2.5	13.9
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	53815	48114	43044	16934	2289	155374
Time Of Maximum Demand Met (From NLDC SCADA)	22:27	15:39	10:29	22:00	19:06	22:46

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	0.041	0.00	1.46	7.20	8.66	77.99	13.35

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	826.0	0	168.2	140.2	-0.8	157	0.0
	Haryana	7386	15	154.5	128.2	1.5	244	0.6
	Rajasthan	11079	0	237.2	75.1	-1.9	316	0.0
	Delhi	4884	0	91.7	76.4	-2.9	68	0.2
	UP	20290	170	402.6	194.0	-1.9	317	0.0
	Uttarakhand	1614	0	35.2	16.1	0.5	108	0.0
	HP	1256	0	24.8	2.6	-3.0	8	0.0
	J&K(UT) & Ladakh(UT)	2192	548	44.9	25.4	-1.1	217	10.6
	Chandigarh	223	0	4.5	4.6	-0.2	16	0.0
	Chhattisgarh	3437	0	79.2	29.1	0.0	262	0.0
WR	Gujarat	14992	0	317.1	57.7	4.7	539	0.0
	MP	9647	0	209.3	107.0	-2.5	371	0.0
	Maharashtra	20398	0	442.1	154.8	0.1	493	0.0
	Goa	499	0	10.3	10.0	-0.3	53	0.0
	DD	207	0	4.5	4.3	0.2	27	0.0
	DNH	391	0	8.6	8.4	0.1	25	0.0
	AMNSIL	761	0	16.3	3.5	0.1	240	0.0
SR	Andhra Pradesh	10060	0	192.3	85.3	3.6	958	0.0
	Telangana	8499	0	173.3	62.4	0.8	567	0.0
	Karnataka	10385	0	201.3	62.0	4.3	919	0.0
	Kerala	3536	0	72.4	46.6	0.4	185	0.0
	Tamil Nadu	13871	0	306.5	133.7	3.1	908	0.0
	Puducherry	390	0	8.2	8.1	0.1	84	0.0
ER	Bihar	4955	0	92.5	87.4	-2.2	232	0.0
	DVC	2444	0	52.5	-35.8	1.6	393	0.0
	Jharkhand	1312	0	23.4	18.9	-0.3	99	0.0
	Odisha	3799	0	77.2	2.8	-0.5	246	0.0
	West Bengal	4759	0	78.3	29.0	-7.1	602	0.0
	Sikkim	91	0	1.3	1.5	-0.2	12	0.0
NER	Arunachal Pradesh	105	1	2.0	2.1	-0.1	33	0.0
	Assam	1334	202	21.7	16.4	-0.7	108	2.4
	Manipur	181	1	2.4	2.5	-0.1	31	0.0
	Meghalaya	355	0	4.7	0.5	-0.1	92	0.1
	Mizoram	95	1	1.7	1.5	0.0	16	0.0
	Nagaland	110	1	2.3	1.9	0.1	11	0.0
	Tripura	275	2	4.1	5.1	-0.4	41	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	52.3	-0.5	-16.5
Day Peak (MW)	2239.4	-127.5	-1017.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	319.8	-326.3	130.5	-122.7	-0.8	0.6
Actual(MU)	300.6	-328.6	160.9	-137.8	-4.0	-8.8
O/D/U/D(MU)	-19.2	-2.3	30.4	-15.1	-3.3	-9.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	5935	15489	11692	2760	899	36774
State Sector	14275	20125	12378	6632	11	53421
Total	20210	35613	24070	9392	910	90195

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	413	1095	377	369	4	2257
Lignite	27	16	37	0	0	80
Hvdro	280	41	97	130	19	567
Nuclear	27	36	27	0	0	90
Gas, Naptha & Diesel	34	71	18	0	26	150
RES (Wind, Solar, Biomass & Others)	99	171	252	5	0	526
Total	880	1430	808	503	49	3671
Share of RES in total generation (%)	11.23	11.95	31.13	0.92	0.06	14.33
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	46.18	17.35	46.45	26.68	38.63	32.23

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.057
Based on State Max Demands	1.120

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: 23-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	301	0.0	6.3	-6.3	
2	HVDC	PUSAULI B/B	S/C	0	249	0.0	5.8	-5.8	
3	765 kV	GAYA-VARANASI	D/C	0	550	0.0	12.3	-12.3	
4	765 kV	SASARAM-FATEHPUR	S/C	182	302	0.0	3.2	-3.2	
5	765 kV	GAYA-BALIA	S/C	0	391	0.0	7.5	-7.5	
6	400 kV	PUSAULI-VARANASI	S/C	16	217	0.0	3.8	-3.8	
7	400 kV	PUSAULI-ALLAHABAD	S/C	18	132	0.0	1.9	-1.9	
8	400 kV	MUZAFFARPUR-GORAKHPUR	D/C	0	1075	0.0	20.1	-20.1	
9	400 kV	PATNA-BALIA	Q/C	0	906	0.0	16.2	-16.2	
10	400 kV	BIHARSHARIFF-BALIA	D/C	0	417	0.0	7.8	-7.8	
11	400 kV	MOTIHARI-GORAKHPUR	D/C	0	326	0.0	5.5	-5.5	
12	400 kV	BIHARSHARIFF-VARANASI	D/C	56	289	0.0	4.0	-4.0	
13	220 kV	PUSAULI-SAHUPURI	S/C	0	169	0.0	3.1	-3.1	
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	97.4	-97.0
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1574	0	25.4	0.0	25.4	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	669	309	3.5	0.0	3.5	
3	765 kV	JHARSUGUDA-DURG	D/C	155	125	0.0	0.3	-0.3	
4	400 kV	JHARSUGUDA-RAIGARH	Q/C	173	73	1.0	0.0	1.0	
5	400 kV	RANCHI-SIPAT	D/C	292	36	2.4	0.0	2.4	
6	220 kV	BUDHIPADAR-RAIGARH	S/C	0	95	0.0	1.2	-1.2	
7	220 kV	BUDHIPADAR-KORBA	D/C	170	0	2.5	0.0	2.5	
						ER-WR	34.8	1.5	33.3
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0	437	0.0	10.0	-10.0	
2	HVDC	TALCHER-KOLAR BIPOLE	D/C	0	1981	0.0	48.0	-48.0	
3	765 kV	ANGUL-SRIKAKULAM	D/C	0	2847	0.0	58.1	-58.1	
4	400 kV	TALCHER-I/C	D/C	0	1008	0.0	7.4	-7.4	
5	220 kV	BALIMELA-UPPER-SILERRU	S/C	1	0	0.0	0.0	0.0	
						ER-SR	0.0	116.0	-116.0
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAOON	D/C	216	206	1.6	0.6	1.1	
2	400 kV	ALIPURDUAR-BONGAIGAOON	D/C	108	425	0.0	2.7	-2.7	
3	220 kV	ALIPURDUAR-SALAKATI	D/C	28	86	0.0	0.6	-0.6	
						ER-NER	1.6	3.9	-2.3
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	-	0	351	0.0	8.4	-8.4	
						NER-NR	0.0	8.4	-8.4
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	D/C	0	2260	0.0	66.3	-66.3	
2	HVDC	V'CHAL B/B	D/C	184	247	2.2	1.5	0.7	
3	HVDC	APL -MHG	D/C	0	1919	0.0	48.4	-48.4	
4	765 kV	GWALIOR-AGRA	D/C	0	2363	0.0	44.6	-44.6	
5	765 kV	PHAGI-GWALIOR	D/C	0	1074	0.0	19.6	-19.6	
6	765 kV	JABALPUR-ORAI	D/C	0	765	0.0	27.0	-27.0	
7	765 kV	GWALIOR-ORAI	S/C	676	0	10.7	0.0	10.7	
8	765 kV	SAJINA-ORAI	S/C	0	1370	0.0	27.1	-27.1	
9	765 kV	CHITORGARH-BANASKANTHA	D/C	0	714	0.0	10.5	-10.5	
10	400 kV	ZERDA-KANKROLI	S/C	90	33	0.7	0.0	0.7	
11	400 kV	ZERDA -BHINMAL	S/C	235	64	1.6	0.0	1.6	
12	400 kV	V'CHAL -RIHAND	S/C	977	0	22.4	0.0	22.4	
13	400 kV	RAPP-SHUJALPUR	D/C	117	175	0.0	1.1	-1.1	
14	220 kV	BHANPURA-RANPUR	S/C	27	45	2.0	0.9	1.1	
15	220 kV	BHANPURA-MORAK	S/C	0	134	0.0	0.3	-0.3	
16	220 kV	MEHGAON-AURAIYA	S/C	85	0	0.0	0.0	0.0	
17	220 kV	MALANPUR-AURAIYA	S/C	52	12	0.0	0.0	0.0	
18	132 kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
19	132 kV	RAIGHAT-LALITPUR	D/C	0	0	0.0	0.0	0.0	
						WR-NR	39.6	247.2	-207.6
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	600	0.0	14.1	-14.1	
2	HVDC	BARBUR-I-SILERRU	-	0	0	0.0	0.0	0.0	
3	HVDC	HVDC-RAIGARH-PUGALUR	D/C	0	449	0.0	1.9	-1.9	
4	765 kV	SOLAPUR-RAICHUR	D/C	0	2304	0.0	30.2	-30.2	
5	765 kV	WARDHA-NIZAMABAD	D/C	0	2557	0.0	45.9	-45.9	
6	400 kV	KOLHAPUR-KUDGI	D/C	466	130	3.7	0.0	3.7	
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	101	2.1	0.0	2.1	
						WR-SR	5.8	92.1	-86.4

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	246	234	215	5.2
	ER	MANGDECHHU (4 x 180) ALIPURDUAR RECEIPT	771	698	708	17.0
	ER	TALA (6 * 170) BINAGURI RECEIPT	1066	1060	1066	25.6
	NER	132KV-SALAKATI - GELEPHU	16	0	47	1.1
	NER	132KV-RANGIA - DEOTHANG	0	0	47	1.1
NEPAL	NR	132KV-Tanakpur(NH) - Mahendranagar(PG)	0	0	0	-0.2
	ER	132KV-BIHAR - NEPAL	-5	-2	-5	-0.1
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-104	-2	-8	-0.2
BANGLADESH	ER	Bheramara HVDC(Bangladesh)	-848	-256	-549	-13.2
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	85	0	-69	-1.7
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	84	0	-69	-1.7