



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: 22th 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 21.05.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.5.5.1 के प्रावधान के अनुसार, दिनांक 21-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 21th 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: 22-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)	47040	42048	37884	14007	1939	142918
Peak Shortage (MW)	1431	0	0	0	478	1909
Energy Met (MU)	1109	1076	932	269	37	3423
Hydro Gen (MU)	246	44	86	121	13	509
Wind Gen (MU)	21	94	135	-	-	251
Solar Gen (MU)*	44.56	29.80	87.06	4.31	0.02	166
Energy Shortage (MU)	12.3	0.0	0.0	0.0	4.2	16.5
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	51350	47699	41770	14243	2090	151572
Time Of Maximum Demand Met (From NLDC SCADA)	22:15	15:32	14:32	20:40	19:27	22:30

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	0.00	1.09	1.09	62.65	36.26

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	7523	0	160.4	133.4	-1.4	83	0.0
	Haryana	6829	288	142.4	122.9	1.9	388	0.1
	Rajasthan	11202	0	233.5	75.4	1.4	467	0.0
	Delhi	4429	0	84.8	69.9	-1.9	243	0.0
	UP	19568	340	382.7	181.9	2.2	827	2.0
	Uttarakhand	1564	0	33.7	15.0	0.5	211	0.0
	HP	1229	0	24.3	1.8	1.4	169	0.0
	J&K(UT) & Ladakh(UT)	2205	551	43.4	27.9	-0.7	213	10.2
WR	Chandigarh	208	0	4.2	4.3	-0.1	11	0.0
	Chhattisgarh	3444	0	78.0	25.7	-0.3	244	0.0
	Gujarat	14753	0	316.6	59.8	4.5	882	0.0
	MP	9392	0	207.2	120.8	-2.5	388	0.0
	Maharashtra	19840	0	434.5	147.0	1.2	590	0.0
	Goa	463	0	10.6	10.3	-0.2	38	0.0
	DD	205	0	4.5	4.3	0.2	26	0.0
	DNH	362	0	8.2	8.2	0.0	21	0.0
SR	AMNSIL	736	0	16.6	2.9	0.6	259	0.0
	Andhra Pradesh	9649	0	186.9	80.9	2.3	972	0.0
	Telangana	7904	0	166.9	66.8	0.4	451	0.0
	Karnataka	9952	0	196.5	60.1	3.5	724	0.0
	Kerala	3342	0	71.2	48.7	0.5	197	0.0
	Tamil Nadu	13395	0	302.2	146.1	0.4	577	0.0
ER	Puducherry	378	0	7.8	7.8	0.0	70	0.0
	Bihar	4680	0	81.6	75.4	0.4	616	0.0
	DVC	2376	0	47.3	-32.0	2.4	273	0.0
	Jharkhand	1141	0	17.3	14.8	-2.2	81	0.0
	Odisha	3426	0	70.0	-6.7	0.7	375	0.0
NER	West Bengal	2966	0	51.5	25.9	-19.7	351	0.0
	Sikkim	88	0	1.1	1.5	-0.3	6	0.0
	Arunachal Pradesh	105	1	2.1	1.7	0.2	11	0.0
	Assam	1205	0	20.2	14.5	-0.3	126	3.9
	Manipur	171	1	2.8	2.3	0.5	33	0.0
	Meghalaya	297	0	4.4	1.9	-0.4	47	0.1
NER	Mizoram	93	1	1.5	1.4	0.0	20	0.0
	Nagaland	110	1	2.3	1.9	0.3	15	0.0
NER	Tripura	256	1	3.7	3.4	-0.2	29	0.1

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	50.1	-0.5	-8.1
Day Peak (MW)	2218.2	-115.2	-771.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	307.7	-328.4	142.7	-125.7	2.6	-1.2
Actual(MU)	314.3	-327.7	166.6	-162.5	0.2	-9.2
O/D/U/D(MU)	6.7	0.7	23.8	-36.8	-2.4	-8.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	5935	16068	11192	2856	899	36949
State Sector	15425	21102	13638	7652	11	57828
Total	21360	37169	24830	10508	910	94777

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	391	1094	332	338	5	2161
Lignite	25	15	36	0	0	76
Hydro	246	44	86	121	13	509
Nuclear	27	36	37	0	0	99
Gas, Naptha & Diesel	33	78	18	0	25	154
RES (Wind, Solar, Biomass & Others)	91	145	268	4	0	508
Total	813	1411	778	463	42	3508

Share of RES in total generation (%)	11.16	10.27	34.48	0.94	0.05	14.49
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	44.76	15.88	50.27	26.98	30.20	31.84

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.037
Based on State Max Demands	1.092

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: 22-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	200	0.0	3.5	-3.5	
2	HVDC	PUSAULI B/B	S/C	0	249	0.0	6.2	-6.2	
3	765 kV	GAYA-VARANASI	D/C	0	789	0.0	12.3	-12.3	
4	765 kV	SASARAM-FATEHPUR	S/C	51	385	0.0	5.7	-5.7	
5	765 kV	GAYA-BALIA	S/C	0	438	0.0	7.5	-7.5	
6	400 kV	PUSAULI-VARANASI	S/C	0	204	0.0	3.5	-3.5	
7	400 kV	PUSAULI-ALLAHABAD	S/C	0	142	0.0	2.6	-2.6	
8	400 kV	MUZAFFARPUR-GORAKHPUR	D/C	0	1153	0.0	22.2	-22.2	
9	400 kV	PATNA-BALIA	Q/C	0	953	0.0	16.5	-16.5	
10	400 kV	BIHARSHARIFF-BALIA	D/C	0	480	0.0	8.4	-8.4	
11	400 kV	MOTIHARI-GORAKHPUR	D/C	0	321	0.0	5.7	-5.7	
12	400 kV	BIHARSHARIFF-VARANASI	D/C	14	407	0.0	5.6	-5.6	
13	220 kV	PUSAULI-SAHUPURI	S/C	0	172	0.0	3.0	-3.0	
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	102.6	-102.0
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1436	0	23.0	0.0	23.0	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	519	533	0.0	3.5	-3.5	
3	765 kV	JHARSUGUDA-DURG	D/C	70	162	0.0	1.5	-1.5	
4	400 kV	JHARSUGUDA-RAIGARH	Q/C	200	91	0.6	0.0	0.6	
5	400 kV	RANCHI-SIPAT	D/C	235	107	0.4	0.0	0.4	
6	220 kV	BUDHIPADAR-RAIGARH	S/C	0	135	0.0	2.1	-2.1	
7	220 kV	BUDHIPADAR-KORBA	D/C	138	11	1.6	0.0	1.6	
						ER-WR	25.6	7.0	18.6
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0	436	0.0	10.0	-10.0	
2	HVDC	TALCHER-KOLAR BIPOLE	D/C	0	1982	0.0	48.0	-48.0	
3	765 kV	ANGUL-SRIKAKULAM	D/C	0	2938	0.0	59.7	-59.7	
4	400 kV	TALCHER-I/C	D/C	0	980	0.0	7.2	-7.2	
5	220 kV	BALIMELA-UPPER-SILERRU	S/C	1	0	0.0	0.0	0.0	
						ER-SR	0.0	117.7	-117.7
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	D/C	170	91	0.0	0.7	-0.7	
2	400 kV	ALIPURDUAR-BONGAIGAON	D/C	1	330	0.0	4.9	-4.9	
3	220 kV	ALIPURDUAR-SALAKATI	D/C	1	55	0.0	0.8	-0.8	
						ER-NER	0.0	6.4	-6.4
Import/Export of ER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	-	0	350	0.0	8.2	-8.2	
						NER-NR	0.0	8.2	-8.2
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	D/C	0	2115	0.0	68.9	-68.9	
2	HVDC	V'CHAL B/B	D/C	48	101	0.5	1.6	-1.1	
3	HVDC	APL -MHG	D/C	0	1918	0.0	42.7	-42.7	
4	765 kV	GWALIOR-AGRA	D/C	0	2555	0.0	46.0	-46.0	
5	765 kV	PHAGI-GWALIOR	D/C	0	1188	0.0	22.3	-22.3	
6	765 kV	JABALPUR-ORAI	D/C	0	829	0.0	25.8	-25.8	
7	765 kV	GWALIOR-ORAI	S/C	751	0	14.4	0.0	14.4	
8	765 kV	SATNA-ORAI	S/C	0	1343	0.0	28.7	-28.7	
9	765 kV	CHITORGARH-BANASKANTHA	D/C	9	908	0.0	7.4	-7.4	
10	400 kV	ZERDA-KANKROLI	S/C	131	86	0.4	0.0	0.4	
11	400 kV	ZERDA -BHINMAL	S/C	198	145	0.3	0.0	0.3	
12	400 kV	V'CHAL -RIHAND	S/C	949	0	20.1	0.0	20.1	
13	400 kV	RAPP-SHUJALPUR	D/C	102	256	0.3	2.0	-1.7	
14	220 kV	BHANPURA-RANPUR	S/C	49	57	1.6	2.9	-1.3	
15	220 kV	BHANPURA-MORAK	S/C	0	92	0.0	0.3	-0.3	
16	220 kV	MEHGAON-AURAIYA	S/C	83	0	0.0	0.0	0.0	
17	220 kV	MALANPUR-AURAIYA	S/C	52	14	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	RAJGHAT-LALITPUR	D/C	0	0	0.0	0.0	0.0	
						WR-NR	37.6	248.3	-210.6
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	617	0.0	14.3	-14.3	
2	HVDC	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0	
3	HVDC	HVDC-RAIGARH-PUGALUR	D/C	0	397	0.0	1.6	-1.6	
4	765 kV	SOLAPUR-RAICHUR	D/C	0	2585	0.0	32.9	-32.9	
5	765 kV	WARDHA-NIZAMABAD	D/C	0	2764	0.0	47.1	-47.1	
6	400 kV	KOLHAPUR-KUDGI	D/C	358	193	2.9	0.3	2.6	
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	87	2.0	0.0	2.0	
						WR-SR	4.9	96.1	-91.3
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	235	178	205	4.9			
	ER	MANGDECHHU (4 x 180) ALIPURDUAR RECEIPT	774	743	731	17.5			
	ER	TALA (6 * 170) BINAGURI RECEIPT	1053	501	980	23.5			
	NER	132KV-SALAKATI - GELEPHU	0	0	42	1.0			
	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	-5	-1	-5	-0.1			
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-94	-2	-10	-0.2			
BANGLADESH	ER	Bheramara HVDC(Bangladesh)	-654	-2	-242	-5.8			
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	59	0	-48	-1.2			
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	58	0	-48	-1.2			