



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: 04th 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 03.05.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.5.5.1 के प्रावधान के अनुसार, दिनांक 03-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 03rd 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: 04-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)	30890	38529	32724	17470	2159	121772
Peak Shortage (MW)	466	0	0	0	48	514
Energy Met (MU)	791	995	814	325	37	2961
Hydro Gen (MU)	247	42	81	74	6	452
Wind Gen (MU)	23	88	32	-	-	144
Solar Gen (MU)*	35.10	28.40	92.73	4.83	0.04	161
Energy Shortage (MU)	9.0	0.0	0.0	0.0	1.1	10.1
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	39550	43237	36678	17170	2182	130605
Time Of Maximum Demand Met (From NLDC SCADA)	00:00	06:21	13:29	20:10	18:52	00:01

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	0.036	0.00	0.12	6.24	6.35	76.56	17.08

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	4539	0	88.2	71.4	-4.9	142	0.0
	Haryana	5277	0	89.5	83.6	-6.3	161	0.0
	Rajasthan	10025	0	187.7	61.5	-3.7	556	0.0
	Delhi	3454	0	64.8	54.9	-2.2	19	0.0
	UP	14269	0	282.8	138.9	0.4	911	0.0
	Uttarakhand	1089	0	21.2	5.3	-1.0	79	0.0
	HP	864	0	16.1	-4.9	-0.8	240	0.0
	J&K(UT) & Ladakh(UT)	2063	516	37.8	18.9	-0.8	186	9.0
	Chandigarh	148	0	2.9	3.0	-0.1	18	0.0
	Chhattisgarh	3245	0	77.3	22.7	-0.3	188	0.0
WR	Gujarat	13135	0	289.9	87.2	4.0	742	0.0
	MP	9014	0	191.0	104.2	-3.2	302	0.0
	Maharashtra	18434	0	414.1	174.5	-0.7	600	0.0
	Goa	450	0	9.4	9.0	-0.1	70	0.0
	DD	144	0	3.3	3.1	0.2	31	0.0
	DNH	263	0	6.0	6.0	0.0	37	0.0
	AMNSIL	436	0	3.5	3.3	0.2	169	0.0
SR	Andhra Pradesh	8260	0	163.9	93.4	0.0	478	0.0
	Telangana	6579	0	141.8	61.5	0.3	356	0.0
	Karnataka	9451	0	184.0	46.7	-0.5	686	0.0
	Kerala	3475	0	69.1	47.2	0.4	205	0.0
	Tamil Nadu	11294	0	250.0	176.2	2.6	566	0.0
	Puducherry	301	0	5.8	6.0	-0.2	48	0.0
ER	Bihar	4581	0	81.8	75.2	0.5	294	0.0
	DVC	1869	0	37.0	-18.2	0.7	254	0.0
	Jharkhand	1388	0	23.7	16.7	-0.9	129	0.0
	Odisha	3918	0	78.2	-2.9	0.0	292	0.0
	West Bengal	5999	0	103.2	35.4	2.0	418	0.0
NER	Sikkim	81	0	1.0	1.2	-0.3	26	0.0
	Arunachal Pradesh	106	1	1.3	0.9	0.4	45	0.0
	Assam	1342	30	21.4	18.0	0.4	147	0.9
	Manipur	170	1	2.3	2.3	0.0	30	0.0
	Meghalaya	247	0	4.0	1.4	0.0	90	0.1
	Mizoram	89	2	1.5	1.4	0.0	15	0.0
	Nagaland	118	2	2.1	1.9	-0.1	26	0.0
	Tripura	231	2	3.9	3.3	-0.2	49	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	16.5	-0.5	-13.3
Day Peak (MW)	1041.5	-108.0	-935.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	125.7	-183.3	145.2	-85.1	-2.5	-0.1
Actual(MU)	79.8	-181.4	175.2	-71.4	-0.6	1.6
O/D/U/D(MU)	-46.0	1.9	30.0	13.8	1.9	1.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	6705	17813	8182	2230	682	35612
State Sector	20558	23987	14708	8192	11	67456
Total	27263	41799	22890	10422	693	103068

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	321	903	326	336	7	1891
Lignite	25	13	38	0	0	76
Hydro	247	42	81	74	6	452
Nuclear	27	37	43	0	0	107
Gas, Naptha & Diesel	23	59	21	0	29	132
RES (Wind, Solar, Biomass & Others)	90	136	142	5	0	373
Total	734	1190	651	415	42	3032
Share of RES in total generation (%)	12.30	11.45	21.82	1.17	0.10	12.32
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	49.72	18.10	40.86	19.10	15.52	30.74

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.063
Based on State Max Demands	1.121

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: 04-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	6.0	-6.0	
3	765 kV	GAYA-VARANASI	D/C	349	507	0.0	2.0	-2.0	
4	765 kV	SASARAM-FATEHPUR	S/C	374	280	1.2	0.0	1.2	
5	765 kV	GAYA-BALIA	S/C	0	266	0.0	2.2	-2.2	
6	400 kV	PUSAULI-VARANASI	S/C	0	260	0.0	4.4	-4.4	
7	400 kV	PUSAULI-ALLAHABAD	S/C	4	133	0.0	1.4	-1.4	
8	400 kV	MUZAFFARPUR-GORAKHPUR	D/C	24	751	0.0	8.6	-8.6	
9	400 kV	PATNA-BALIA	Q/C	113	679	0.0	5.9	-5.9	
10	400 kV	BIHARSHARIF-BALIA	D/C	65	297	0.0	2.2	-2.2	
11	400 kV	MOTIHARI-GORAKHPUR	D/C	0	206	0.0	2.8	-2.8	
12	400 kV	BIHARSHARIF-VARANASI	D/C	328	244	1.1	0.0	1.1	
13	220 kV	PUSAULI-SAHUPURI	S/C	0	201	0.0	3.3	-3.3	
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	2.8	39.5	-36.7
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1805	0	23.1	0.0	23.1	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	484	446	1.9	0.0	1.9	
3	765 kV	JHARSUGUDA-DURG	D/C	58	562	0.0	5.8	-5.8	
4	400 kV	JHARSUGUDA-RAIGARH	Q/C	148	246	0.0	1.4	-1.4	
5	400 kV	RANCHI-SIPAT	D/C	309	200	2.2	0.0	2.2	
6	220 kV	BUDHIPADAR-RAIGARH	S/C	0	146	0.0	2.1	-2.1	
7	220 kV	BUDHIPADAR-KORBA	D/C	165	0	2.2	0.0	2.2	
						ER-WR	29.5	9.3	20.2
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0	279	0.0	6.2	-6.2	
2	HVDC	TALCHER-KOLAR BIPOLE	D/C	0	1982	0.0	41.2	-41.2	
3	765 kV	ANGUL-SRIKAKULAM	D/C	0	3141	0.0	61.8	-61.8	
4	400 kV	TALCHER-I/C	D/C	693	987	0.0	4.8	-4.8	
5	220 kV	BALIMELA-UPPER-SILERRU	S/C	1	0	0.0	0.0	0.0	
						ER-SR	0.0	109.2	-109.2
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	D/C	351	0	5.2	0.0	5.2	
2	400 kV	ALIPURDUAR-BONGAIGAON	D/C	469	0	6.6	0.0	6.6	
3	220 kV	ALIPURDUAR-SALAKATI	D/C	88	0	1.0	0.0	1.0	
						ER-NER	12.8	0.0	12.8
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	-	463	0	11.7	0.0	11.7	
						NER-NR	11.7	0.0	11.7
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	D/C	0	0	0.0	11.6	-11.6	
2	HVDC	V'CHAL B/B	D/C	48	52	0.0	0.3	-0.3	
3	HVDC	APL -MHG	D/C	0	1126	0.0	27.9	-27.9	
4	765 kV	GWALIOR-AGRA	D/C	0	1869	0.0	25.6	-25.6	
5	765 kV	PHAGI-GWALIOR	D/C	0	795	0.0	3.9	-3.9	
6	765 kV	JABALPUR-ORAI	D/C	0	543	0.0	11.2	-11.2	
7	765 kV	GWALIOR-ORAI	S/C	400	0	11.7	0.0	11.7	
8	765 kV	SAINA-ORAI	S/C	0	1749	0.0	23.2	-23.2	
9	765 kV	CHITORGARH-BANASKANTHA	D/C	592	284	3.6	0.0	3.6	
10	400 kV	ZERDA-KANKROLI	S/C	240	0	4.0	0.0	4.0	
11	400 kV	ZERDA -BHINMAL	S/C	443	0	6.0	0.0	6.0	
12	400 kV	V'CHAL -RIHAND	S/C	959	0	22.2	0.0	22.2	
13	400 kV	RAPP-SHUALPUR	D/C	330	29	1.9	0.0	1.9	
14	220 kV	BHANPURA-RANPUR	S/C	31	39	0.0	1.0	-1.0	
15	220 kV	BHANPURA-MORAK	S/C	0	90	0.0	1.6	-1.6	
16	220 kV	MEHGAON-AURAIYA	S/C	114	43	1.2	0.1	1.1	
17	220 kV	MALANPUR-AURAIYA	S/C	81	40	0.7	0.1	0.6	
18	132 kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
						WR-NR	51.3	111.4	-60.0
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	989	0.0	18.3	-18.3	
2	HVDC	BARSUR-L-SILERRU	-	0	0	0.0	0.0	0.0	
3	765 kV	SOLAPUR-RAICHUR	D/C	0	2471	0.0	34.3	-34.3	
4	765 kV	WARDHA-NIZAMABAD	D/C	0	3000	0.0	47.6	-47.6	
5	400 kV	KOLHAPUR-KUDGI	D/C	218	0	3.6	1.1	2.5	
6	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0	
7	220 kV	PONDA-AMBEWADI	S/C	0	0	0.0	0.0	0.0	
8	220 kV	XELDEM-AMBEWADI	S/C	79	86	1.6	0.0	1.6	
						WR-SR	2.6	101.7	-99.1

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	154	152	124	3.0
	ER	MANGDECHHU (4 x 180) ALIPURDUAR RECEIPT	350	343	254	6.1
	ER	TALA (6 * 170) BINAGURI RECEIPT	382	380	243	5.8
	NER	132KV-SALAKATI - GELEPHU	2	0	15	0.4
	NER	132KV-RANGIA - DEOTHANG	0	0	19	0.5
NEPAL	NR	132KV-Tanakpur(NH) - Mahendranagar(PG)	0	0	0	0.0
	ER	132KV-BIHAR - NEPAL	-10	-2	-3	-0.1
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-98	-2	-17	-0.4
BANGLADESH	ER	Bheramara HVDC(Bangladesh)	-810	-262	-454	-10.9
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	63	0	-49	-1.2
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	62	0	-49	-1.2