



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: 15th 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 14.05.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.5.5.1 के प्रावधान के अनुसार, दिनांक 14-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 14th 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: 15-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)	37734	39962	36998	18543	2332	135569
Peak Shortage (MW)	338	0	0	0	119	457
Energy Met (MU)	929	1030	927	395	39	3320
Hydro Gen (MU)	263	42	85	63	11	465
Wind Gen (MU)	13	37	26	-	-	76
Solar Gen (MU)*	40.43	26.84	80.10	4.86	0.04	152
Energy Shortage (MU)	9.8	0.0	0.0	0.0	2.0	11.7
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	42867	46939	43033	18728	2336	145663
Time Of Maximum Demand Met (From NLDC SCADA)	22:24	15:05	14:55	22:50	18:50	14:40

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	0.028	0.00	0.00	1.62	1.62	74.84	23.54

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	5804	0	115.0	89.3	-2.8	243	0.0
	Haryana	5549	0	113.6	106.1	-0.2	300	0.0
	Rajasthan	10203	0	215.1	79.7	-0.4	592	0.0
	Delhi	3648	0	72.2	57.9	-2.0	51	0.1
	UP	16523	0	322.0	158.8	2.2	1342	0.0
	Uttarakhand	1348	0	28.9	11.2	0.1	111	0.0
	HP	1100	0	20.7	1.7	-2.0	218	0.0
	J&K(UT) & Ladakh(UT)	2044	361	38.3	22.3	-3.6	359	9.7
WR	Chandigarh	158	0	3.3	3.5	-0.2	11	0.0
	Chhattisgarh	3406	0	78.7	25.1	-0.8	203	0.0
	Gujarat	14107	0	303.4	109.5	2.4	624	0.0
	MP	9110	0	202.0	119.5	-1.6	368	0.0
	Maharashtra	19540	0	411.2	158.2	-2.4	440	0.0
	Goa	482	0	9.8	9.9	-0.5	41	0.0
	DD	181	0	4.0	4.0	0.0	44	0.0
	DNH	348	0	7.8	7.8	0.0	22	0.0
SR	AMNSIL	596	0	13.4	3.3	-0.1	134	0.0
	Andhra Pradesh	8620	0	174.5	104.4	-0.3	469	0.0
	Telangana	7253	0	154.9	60.0	-0.1	273	0.0
	Karnataka	10895	0	214.5	67.9	2.6	655	0.0
	Kerala	3443	0	73.2	49.0	0.9	187	0.0
	Tamil Nadu	13350	0	302.7	181.1	0.2	432	0.0
ER	Puducherry	369	0	7.3	7.5	-0.2	30	0.0
	Bihar	5071	0	97.1	88.5	1.0	517	0.0
	DVC	2270	0	48.7	-27.1	0.7	229	0.0
	Jharkhand	1186	0	22.3	15.5	-1.6	106	0.0
	Odisha	3923	0	81.9	4.2	1.3	341	0.0
NER	West Bengal	6681	0	143.5	38.3	1.6	447	0.0
	Sikkim	98	0	1.3	1.4	-0.1	31	0.0
	Arunachal Pradesh	92	1	2.2	2.4	-0.4	17	0.0
	Assam	1390	102	21.5	17.6	-0.6	126	1.9
	Manipur	153	1	2.4	2.3	0.1	21	0.0
	Meghalaya	303	0	4.7	4.0	-0.3	34	0.1
	Mizoram	89	1	1.7	1.6	0.0	12	0.0
Nagaland	118	1	2.2	2.1	0.0	29	0.0	
Tripura	278	3	4.1	5.4	-1.2	41	0.0	

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	12.7	-1.4	-21.9
Day Peak (MW)	1083.7	-200.9	-1104.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	195.1	-261.4	150.7	-87.5	3.1	0.0
Actual(MU)	177.4	-267.0	172.9	-78.4	-0.9	4.0
O/D/U/D(MU)	-17.7	-5.6	22.2	9.1	-4.0	4.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	5955	15543	8442	1196	615	31750
State Sector	19095	21756	11418	5712	11	57992
Total	25050	37298	19860	6908	626	89742

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	345	1073	442	447	7	2314
Lignite	24	15	42	0	0	81
Hydro	263	42	85	63	11	465
Nuclear	27	33	47	0	0	107
Gas, Naptha & Diesel	32	74	17	0	27	150
RES (Wind, Solar, Biomass & Others)	81	78	143	5	0	306
Total	773	1314	775	515	46	3423

Share of RES in total generation (%)	10.47	5.90	18.42	0.96	0.09	8.95
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	48.00	11.62	35.44	13.23	24.52	25.64

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.057
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: 15-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	150	0.0	0.9	-0.9	
2	HVDC	PUSAULI B/B	S/C	0	248	0.0	5.9	-5.9	
3	765 kV	GAYA-VARANASI	D/C	52	413	0.0	5.0	-5.0	
4	765 kV	SASARAM-FATEHPUR	S/C	321	174	0.0	0.5	-0.5	
5	765 kV	GAYA-BALIA	S/C	0	358	0.0	6.1	-6.1	
6	400 kV	PUSAULI-VARANASI	S/C	0	245	0.0	4.4	-4.4	
7	400 kV	PUSAULI-ALLAHABAD	S/C	0	113	0.0	1.4	-1.4	
8	400 kV	MUZAFFARPUR-GORAKHPUR	D/C	9	582	0.0	7.2	-7.2	
9	400 kV	PATNA-BALIA	Q/C	19	472	0.0	6.9	-6.9	
10	400 kV	BIHARSHARIFF-BALIA	D/C	31	240	0.0	2.4	-2.4	
11	400 kV	MOTIHARI-GORAKHPUR	D/C	0	274	0.0	3.4	-3.4	
12	400 kV	BIHARSHARIFF-VARANASI	D/C	233	79	3.0	0.0	3.0	
13	220 kV	PUSAULI-SAHUPURI	S/C	0	184	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	3.4	47.0	-43.6
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1516	0	22.8	0.0	22.8	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	1117	0	13.9	0.0	13.9	
3	765 kV	JHARSUGUDA-DURG	D/C	124	181	0.0	1.6	-1.6	
4	400 kV	JHARSUGUDA-RAIGARH	Q/C	128	139	0.5	0.0	0.5	
5	400 kV	RANCHI-SIPAT	D/C	396	0	4.9	0.0	4.9	
6	220 kV	BUDHIPADAR-RAIGARH	S/C	0	83	0.0	1.2	-1.2	
7	220 kV	BUDHIPADAR-KORBA	D/C	176	0	2.9	0.0	2.9	
						ER-WR	44.9	2.8	42.1
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0	379	0.0	7.8	-7.8	
2	HVDC	TALCHER-KOLAR BIPOLE	D/C	0	1979	0.0	48.0	-48.0	
3	765 kV	ANGUL-SRIKAKULAM	D/C	0	3450	0.0	66.0	-66.0	
4	400 kV	TALCHER-I/C	D/C	0	218	0.0	2.7	-2.7	
5	220 kV	BALIMELA-UPPER-SILERRU	S/C	1	0	0.0	0.0	0.0	
						ER-SR	0.0	121.7	-121.7
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	D/C	86	341	0.0	2.2	-2.2	
2	400 kV	ALIPURDUAR-BONGAIGAON	D/C	68	482	0.0	3.3	-3.3	
3	220 kV	ALIPURDUAR-SALAKATI	D/C	22	98	0.0	0.5	-0.5	
						ER-NER	0.0	6.0	-6.0
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	-	0	402	0.0	7.1	-7.1	
						NER-NR	0.0	7.1	-7.1
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	D/C	0	902	0.0	26.5	-26.5	
2	HVDC	V'CHAL B/B	D/C	49	0	1.3	0.0	1.3	
3	HVDC	APL -MHG	D/C	0	1551	0.0	32.8	-32.8	
4	765 kV	GWALIOR-AGRA	D/C	0	2324	0.0	40.7	-40.7	
5	765 kV	PHAGI-GWALIOR	D/C	0	1126	0.0	19.7	-19.7	
6	765 kV	JABALPUR-ORAI	D/C	0	768	0.0	25.3	-25.3	
7	765 kV	GWALIOR-ORAI	S/C	542	0	10.6	0.0	10.6	
8	765 kV	SATNA-ORAI	S/C	0	1414	0.0	27.9	-27.9	
9	765 kV	CHITORGARH-BANASKANTHA	D/C	692	396	2.9	0.0	2.9	
10	400 kV	ZERDA-KANKROLI	S/C	230	0	3.2	0.0	3.2	
11	400 kV	ZERDA -BHINMAL	S/C	239	0	3.3	0.0	3.3	
12	400 kV	V'CHAL -RIHAND	S/C	965	0	22.2	0.0	22.2	
13	400 kV	RAPP-SHUJALPUR	D/C	210	148	0.2	0.0	0.2	
14	220 kV	BHANPURA-RANPUR	S/C	26	63	1.1	0.8	0.3	
15	220 kV	BHANPURA-MORAK	S/C	0	78	0.0	0.4	-0.4	
16	220 kV	MEHGAON-AURAIYA	S/C	95	2	0.1	0.4	-0.3	
17	220 kV	MALANPUR-AURAIYA	S/C	70	17	0.0	0.0	0.0	
18	132 kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
						WR-NR	44.7	174.4	-129.7
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	1002	0.0	22.5	-22.5	
2	HVDC	BARSUR-LSILERU	-	0	0	0.0	0.0	0.0	
3	765 kV	SOLAPUR-RAICHUR	D/C	0	1982	0.0	29.3	-29.3	
4	765 kV	WARDHA-NIZAMABAD	D/C	0	2610	0.0	45.1	-45.1	
5	400 kV	KOLHAPUR-KUDGI	D/C	292	324	0.2	0.0	0.2	
6	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0	
7	220 kV	PONDA-AMBEWADI	S/C	0	76	0.0	1.5	-1.5	
8	220 kV	XELDEM-AMBEWADI	S/C	0	100	2.0	0.0	2.0	
						WR-SR	2.2	98.4	-96.2

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	49	30	20	0.5
	ER	MANGDECHHU (4 x 180) ALIPURDUAR RECEIPT	483	206	217	5.2
	ER	TALA (6 * 170) BINAGURI RECEIPT	396	252	260	6.3
	NER	132KV-SALAKATI - GELEPHU	16	0	-2	0.0
	NER	132KV-RANGIA - DEOTHANG	0	0	17	0.4
NEPAL	NR	132KV-Tanakpur(NH) - Mahendranagar(PG)	0	0	0	-0.2
	ER	132KV-BIHAR - NEPAL	-66	-1	-39	-0.9
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-118	-2	-13	-0.3
BANGLADESH	ER	Bheramara HVDC(Bangladesh)	-958	-400	-770	-18.5
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	73	0	-71	-1.7
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	73	0	-71	-1.7