



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: 25thMar 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 24.03.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.5.5.1 के प्रावधान के अनुसार, दिनांक 24-मार्च-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 24thMar 2020, is available at the NLDC website.

धन्यवाद,

पावर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड
राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली

Report for previous day

Date of Reporting 25-Mar-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 1900 hrs; from RLDCs)	30563	36306	36450	16352	2266	121937
Peak Shortage (MW)	488	0	0	0	18	506
Energy Met (MU)	695	944	983	314	39	2975
Hydro Gen (MU)	144	35	71	33	4	288
Wind Gen (MU)	14	32	25	-	-	71
Solar Gen (MU)*	29.53	24.60	96.00	4.68	0.02	155
Energy Shortage (MU)	10.1	0.0	0.0	0.0	0.7	11
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	33238 06:39	44566 07:15	46618 09:53	16430 19:37	2255 18:52	135937 09:41

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	0.049	0.00	0.00	1.10	1.10	58.53	40.37

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	3521	0	69.6	46.2	-1.6	112	0.0
	Haryana	4668	0	85.9	72.2	-1.3	201	0.0
	Rajasthan	9839	0	171.4	48.4	0.9	749	0.0
	Delhi	2379	0	46.0	35.2	-1.5	161	0.0
	UP	12751	0	241.6	111.4	1.2	509	0.0
	Uttarakhand	1128	0	19.5	7.0	-1.0	77	0.0
	HP	967	0	15.6	8.5	-4.0	23	0.0
	J&K(UT) and Ladakh(UT)	2057	514	42.8	36.3	-1.5	277	10.1
	Chandigarh	136	0	2.3	2.6	-0.3	14	0.0
WR	Chhattisgarh	3508	0	80.8	30.6	-2.1	287	0.0
	Gujarat	12222	0	263.0	54.9	2.3	597	0.0
	MP	9455	0	178.9	111.1	-2.0	398	0.0
	Maharashtra	18693	0	394.4	123.6	0.9	721	0.0
	Goa	364	0	7.2	7.2	0.0	36	0.0
	DD	234	0	4.6	4.5	0.1	27	0.0
	DNH	627	0	12.9	13.1	-0.2	18	0.0
	Essar steel	557	0	2.1	1.4	0.7	247	0.0
	SR	Andhra Pradesh	8784	0	175.4	82.5	-0.3	595
Telangana		10379	0	210.7	112.3	0.0	1154	0.0
Karnataka		12348	0	231.2	72.8	0.8	671	0.0
Kerala		3600	0	69.9	57.4	1.4	259	0.0
Tamil Nadu		12833	0	290.7	190.9	-0.3	352	0.0
Puducherry		270	0	5.0	5.6	-0.6	18	0.0
ER	Bihar	3822	0	69.9	67.4	1.0	355	0.0
	DVC	1906	0	38.1	-32.6	0.5	381	0.0
	Jharkhand	1293	0	23.9	15.9	-1.1	95	0.0
	Odisha	3940	0	74.7	5.0	1.0	378	0.0
	West Bengal	5743	0	106.4	26.2	0.9	501	0.0
	Sikkim	110	0	1.5	1.7	-0.2	21	0.0
NER	Arunachal Pradesh	110	2	2.0	1.6	0.2	0	0.0
	Assam	1273	7	21.3	17.7	-0.2	113	0.5
	Manipur	186	4	2.6	2.3	0.3	21	0.0
	Meghalaya	311	0	5.3	3.9	0.2	54	0.1
	Mizoram	94	2	1.7	1.4	0.1	17	0.0
	Nagaland	120	2	2.0	1.9	0.1	9	0.0
Tripura	230	1	3.6	2.7	0.1	48	0.0	

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	2.8	-5.8	-20.6
Day peak (MW)	348.5	-316.9	-1090.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	118.4	-229.8	177.2	-70.0	4.1	-0.1
Actual(MU)	105.6	-236.8	190.5	-68.6	5.8	-3.7
O/D/U/D(MU)	-12.8	-7.1	13.2	1.4	1.7	-3.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	5619	20742	5502	715	727	33304
State Sector	17933	19312	10778	6660	11	54694
Total	23552	40054	16280	7375	738	87998

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	332	972	458	376	10	2149
Lignite	16	14	46	0	0	76
Hydro	144	35	71	33	4	288
Nuclear	19	33	69	0	0	121
Gas, Naptha & Diesel	25	63	17	0	22	128
RES (Wind, Solar, Biomass & Others)	73	65	133	5	0	275
Total	611	1182	794	413	37	3038

Share of RES in total generation (%)	12.01	5.46	16.69	1.15	0.05	9.06
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	38.77	11.23	34.36	9.16	12.07	22.55

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.053
Based on State Max Demands	1.107

Diversity factor = Sum of regional or state-wise maximum demands / All India maximum demand

*Source: RLDCs for solar connected to ISTS; SLDCs for embedded solar. Limited visibility of embedded solar data.

INTER-REGIONAL EXCHANGES

Import=(+ve) /Export =(-ve) for NET (MU)

Date of Reporting: 25-Mar-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	249	0.0	6.1	-6.1	
3	765 kV	GAYA-VARANASI	D/C	0	290	0.0	3.5	-3.5	
4	765 kV	SASARAM-FATEHPUR	S/C	147	133	0.0	0.0	0.0	
5	765 kV	GAYA-BALIA	S/C	0	289	0.0	5.0	-5.0	
6	400 kV	PUSAULI-VARANASI	S/C	0	239	0.0	4.6	-4.6	
7	400 kV	PUSAULI-ALLAHABAD	S/C	0	98	0.0	1.4	-1.4	
8	400 kV	MUZAFFARPUR-GORAKHPUR	D/C	0	397	0.0	4.5	-4.5	
9	400 kV	PATNA-BALIA	O/C	0	484	0.0	8.0	-8.0	
10	400 kV	BIHARSHARIFF-BALIA	D/C	0	173	0.0	1.9	-1.9	
11	400 kV	MOTIHARI-GORAKHPUR	D/C	0	258	0.0	4.6	-4.6	
12	400 kV	BIHARSHARIFF-VARANASI	D/C	176	64	2.2	0.0	2.2	
13	220 kV	PUSAULI-SAHUPURI	S/C	0	137	0.0	2.6	-2.6	
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	0.4	0.0	0.4	
16	132 kV	KARMANASA-SAHUPURI	S/C	0	0	0.0	0.0	0.0	
17	132 kV	KARMANASA-CHANDAUJI	S/C	0	0	0.0	0.0	0.0	
						ER-NR	2.6	42.1	-39.5
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1502	0	29.4	0.0	29.4	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	1038	46	8.7	0.0	8.7	
3	765 kV	JHARSUGUDA-DURG	D/C	149	135	0.0	0.3	-0.3	
4	400 kV	JHARSUGUDA-RAIGARH	Q/C	162	133	0.6	0.0	0.6	
5	400 kV	RANCHI-SIPAT	D/C	390	0	4.0	0.0	4.0	
6	220 kV	BUDHIPADAR-RAIGARH	S/C	4	89	0.0	0.9	-0.9	
7	220 kV	BUDHIPADAR-KORBA	D/C	173	0	3.1	0.0	3.1	
						ER-WR	45.8	1.1	44.6
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0	690	0.0	16.0	-16.0	
2	HVDC	TALCHER-KOLAR BIPOLE	D/C	0	1984	0.0	46.6	-46.6	
3	765 kV	ANGUL-SRIKAKULAM	D/C	0	2895	0.0	56.0	-56.0	
4	400 kV	TALCHER-I/C	D/C	343	998	0.0	13.2	-13.2	
5	220 kV	BALIMELA-UPPER-SILERRU	S/C	1	0	0.0	0.0	0.0	
						ER-SR	0.0	118.6	-118.6
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	D/C	210	41	2.0	0.0	2.0	
2	400 kV	ALIPURDUAR-BONGAIGAON	D/C	283	19	2.6	0.0	2.6	
3	220 kV	ALIPURDUAR-SALAKATI	D/C	58	11	0.5	0.0	0.5	
						ER-NER	5.1	0.0	5.1
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	-	487	0	11.5	0.0	11.5	
						NER-NR	11.5	0.0	11.5
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	D/C	0	0	0.0	11.4	-11.4	
2	HVDC	V'CHAL B/B	D/C	449	0	12.1	0.0	12.1	
3	HVDC	APL -MHG	D/C	0	1077	0.0	26.7	-26.7	
4	765 kV	GWALIOR-AGRA	D/C	0	1977	0.0	35.2	-35.2	
5	765 kV	PHAGI-GWALIOR	D/C	0	1091	0.0	16.7	-16.7	
6	765 kV	JABALPUR-ORAI	D/C	0	586	0.0	21.9	-21.9	
7	765 kV	GWALIOR-ORAI	S/C	470	0	8.8	0.0	8.8	
8	765 kV	SATNA-ORAI	S/C	0	1200	0.0	25.5	-25.5	
9	765 kV	CHITORGARH-BANASKANTHA	D/C	690	0	8.5	0.0	8.5	
10	400 kV	ZERDA-KANKROLI	S/C	213	0	3.2	0.0	3.2	
11	400 kV	ZERDA -BHINMAL	S/C	347	48	3.3	0.0	3.3	
12	400 kV	V'CHAL -RIHAND	S/C	976	0	21.2	0.0	21.2	
13	400 kV	RAPP-SHUJALPUR	D/C	108	209	0.3	1.4	-1.2	
14	220 kV	BHANPURA-RANPUR	S/C	9	51	0.0	1.0	-1.0	
15	220 kV	BHANPURA-MORAK	S/C	0	100	0.0	1.4	-1.4	
16	220 kV	MEHGAON-AURAIYA	S/C	105	0	1.3	0.0	1.3	
17	220 kV	MALANPUR-AURAIYA	S/C	61	11	0.5	0.0	0.5	
18	132 kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
						WR-NR	59.1	141.2	-82.2
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	1002	0.0	23.8	-23.8	
2	HVDC	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0	
3	765 kV	SOLAPUR-RAICHER	D/C	0	2453	0.0	38.1	-38.1	
4	765 kV	WARDHA-NIZAMABAD	D/C	0	3164	0.0	55.3	-55.3	
5	400 kV	KOLHAPUR-KUDGI	D/C	692	0	8.7	0.0	8.7	
6	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0	
7	220 kV	PONDA-AMBEWADI	S/C	0	60	0.0	1.2	-1.2	
8	220 kV	XELDEM-AMBEWADI	S/C	0	64	1.2	0.0	1.2	
						WR-SR	9.9	118.5	-108.6

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	0	0	-28	-0.7
	ER	MANGDECHHU (4 x 180) ALIPURDUAR RECEIPT	124	98	110	2.6
	ER	TALA (6 * 170) BINAGURI RECEIPT	94	43	43	1.0
	NER	132KV-SALAKATI - GELEPHU	16	0	-10	-0.3
	NER	132KV-RANGIA - DEOTHANG	9	0	0	0.0
NEPAL	NR	132KV-Tanakpur(NH) - Mahendranagar(PG)	0	0	0	-1.0
	ER	132KV-BIHAR - NEPAL	-12	-1	-1	0.0
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-250	-128	-199	-4.8
BANGLADESH	ER	Bheramara HVDC(Bangladesh)	-954	-406	-744	-17.8
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	68	0	-58	-1.4
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	68	0	-58	-1.4