



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: 28th Mar 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 27.03.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.5.5.1 के प्रावधान के अनुसार, दिनांक 27-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 27th Mar 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: 28-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)	24307	31190	34632	16583	2194	108906
Peak Shortage (MW)	567	0	0	0	75	642
Energy Met (MU)	566	761	896	333	36	2592
Hydro Gen (MU)	142	35	78	39	4	298
Wind Gen (MU)	6	36	47	-	-	89
Solar Gen (MU)*	30.01	22.10	97.14	4.67	0.04	154
Energy Shortage (MU)	9.3	0.0	0.0	0.0	0.3	9.6
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	27775	34030	41981	16728	2252	115232
Time Of Maximum Demand Met (From NLDC SCADA)	20:19	07:42	09:28	20:13	18:23	09:57

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	0.045	0.00	1.15	7.30	8.45	74.05	17.50

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	2973	0	57.6	47.2	-1.7	91	0.0
	Haryana	3781	0	65.9	60.4	-0.7	213	0.0
	Rajasthan	5599	0	105.8	29.3	-8.1	525	0.0
	Delhi	2425	0	44.4	33.8	-1.8	139	0.0
	UP	11359	0	217.3	95.5	-3.1	438	0.0
	Uttarakhand	1044	0	17.0	3.5	-0.4	147	0.0
	HP	895	0	12.9	0.7	-0.7	126	0.0
	J&K(UT) & Ladakh(UT)	2161	540	42.9	36.0	-1.4	219	9.3
	Chandigarh	149	0	2.4	2.5	-0.1	28	0.0
WR	Chhattisgarh	3134	0	77.0	22.8	2.3	235	0.0
	Gujarat	8962	0	192.3	61.8	2.5	668	0.0
	MP	6065	0	131.8	77.4	-2.4	429	0.0
	Maharashtra	15819	0	348.2	134.5	-1.1	647	0.0
	Goa	343	0	7.0	6.8	0.2	32	0.0
	DD	64	0	1.4	1.2	0.2	14	0.0
	DNH	86	0	2.0	2.0	0.0	27	0.0
	Essar steel	264	0	1.3	1.5	-0.2	82	0.0
	Andhra Pradesh	8095	0	160.4	77.9	-0.8	281	0.0
SR	Telangana	9953	0	202.7	116.2	-0.1	1036	0.0
	Karnataka	10907	0	217.4	68.9	-1.4	520	0.0
	Kerala	3546	0	66.6	53.6	0.2	167	0.0
	Tamil Nadu	10791	0	244.7	168.5	1.2	374	0.0
	Puducherry	207	0	4.1	4.9	-0.8	25	0.0
	Bihar	4222	0	76.3	74.9	-0.2	126	0.0
ER	DVC	1625	0	33.6	-23.4	0.3	347	0.0
	Jharkhand	1209	0	23.7	15.4	-0.7	80	0.0
	Odisha	3929	0	80.7	4.9	-0.2	270	0.0
	West Bengal	6036	0	117.0	28.4	1.0	329	0.0
	Sikkim	95	0	1.3	1.5	-0.2	15	0.0
	NER	Arumachal Pradesh	107	1	2.0	1.2	0.7	35
Assam		1337	9	20.6	17.6	0.0	79	0.1
Manipur		176	2	2.5	2.3	0.2	26	0.0
Meghalaya		277	0	4.3	3.7	0.3	230	0.1
Mizoram		94	1	1.8	1.4	0.0	19	0.0
Nagaland		113	2	2.1	1.9	0.1	10	0.0
Tripura		249	1	3.1	2.8	-0.5	42	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	5.0	-2.9	-10.7
Day Peak (MW)	465.7	-198.2	-638.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	81.3	-176.6	166.3	-76.6	5.7	0.0
Actual(MU)	40.1	-166.3	171.4	-56.2	8.0	-3.0
OD(+)/UD(-)	-41.2	10.3	5.2	20.3	2.4	-3.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	7439	21852	7082	1315	1012	38699
State Sector	20693	25956	14265	8393	11	69317
Total	28132	47807	21347	9708	1023	108016

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	276	736	360	365	7	1744
Lignite	15	11	47	0	0	73
Hvdro	142	35	78	39	4	298
Nuclear	20	33	64	0	0	116
Gas, Naptha & Diesel	29	53	20	0	22	123
RES (Wind, Solar, Biomass & Others)	63	66	154	5	0	287
Total	545	933	722	409	33	2642
Share of RES in total generation (%)	11.59	7.06	21.27	1.16	0.12	10.88
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total	41.23	14.35	40.94	10.65	12.01	26.56

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.065
Based on State Max Demands	1.112

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: 28-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	248	0.0	6.0	-6.0	
3	765 kV	GAYA-VARANASI	D/C	264	108	1.0	0.0	1.0	
4	765 kV	SASARAM-FATEHPUR	S/C	199	3	2.1	0.0	2.1	
5	765 kV	GAYABALLIA	S/C	31	234	0.0	2.8	-2.8	
6	400 kV	PUSAULI-VARANASI	S/C	0	236	0.0	4.8	-4.8	
7	400 kV	PUSAULI-ALLAHABAD	S/C	0	84	0.0	1.0	-1.0	
8	400 kV	MUZAFFARPUR-GORAKHPUR	D/C	256	347	0.0	1.6	-1.6	
9	400 kV	PATNA-BALLIA	Q/C	0	449	0.0	6.6	-6.6	
10	400 kV	BIHARSHARIFF-BALLIA	D/C	97	175	0.0	1.2	-1.2	
11	400 kV	MOTIHARI-GORAKHPUR	D/C	0	223	0.0	3.5	-3.5	
12	400 kV	BIHARSHARIFF-VARANASI	D/C	287	32	3.3	0.0	3.3	
13	220 kV	PUSAULI-SAHUPURI	S/C	0	127	0.0	2.4	-2.4	
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-CHANDAULI	S/C	0	0	0.0	0.0	0.0	
						ER-NR	6.8	29.9	-23.1
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1676	0	29.2	0.0	29.2	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	656	249	4.2	0.0	4.2	
3	765 kV	JHARSUGUDA-DURG	D/C	13	95	0.0	0.9	-0.9	
4	400 kV	JHARSUGUDA-RAIGARH	Q/C	36	140	0.0	1.3	-1.3	
5	400 kV	RANCHI-SIPAT	D/C	244	76	2.2	0.0	2.2	
6	220 kV	BUDHIPADAR-RAIGARH	S/C	0	114	0.0	2.2	-2.2	
7	220 kV	BUDHIPADAR-KORBA	D/C	117	0	1.9	0.0	1.9	
						ER-WR	37.5	4.4	33.1
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	2474	0.0	46.0	-46.0	
3	765 kV	ANGUL-SRIKAKULAM	D/C	0	2853	0.0	52.8	-52.8	
4	400 kV	TALCHER-I/C	D/C	398	970	0.0	6.6	-6.6	
5	220 kV	BALIMELA-UPPER-SILERRU	S/C	1	0	0.0	0.0	0.0	
						ER-SR	0.0	114.8	-114.8
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	D/C	182	130	1.2	0.0	1.2	
2	400 kV	ALIPURDUAR-BONGAIGAON	D/C	261	152	1.5	0.0	1.5	
3	220 kV	ALIPURDUAR-SALAKATI	D/C	56	33	0.4	0.0	0.4	
						ER-NER	3.0	0.0	3.0
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	4.3	-4.3	
2	HVDC	V'CHAL B/B	D/C	449	0	12.1	0.0	12.1	
3	HVDC	APL -MHG	D/C	0	886	0.0	21.8	-21.8	
4	765 kV	GWALIOR-AGRA	D/C	0	1583	0.0	25.7	-25.7	
5	765 kV	PHAGI-GWALIOR	D/C	0	912	0.0	12.0	-12.0	
6	765 kV	JABALPUR-ORAI	D/C	45	455	0.0	13.0	-13.0	
7	765 kV	GWALIOR-ORAI	S/C	494	0	7.7	0.0	7.7	
8	765 kV	SAINA-ORAI	S/C	0	1095	0.0	21.6	-21.6	
9	765 kV	CHITORGARH-BANASKANTHA	D/C	836	0	10.5	0.0	10.5	
10	400 kV	ZERDA-KANKROLI	S/C	303	0	4.2	0.0	4.2	
11	400 kV	ZERDA -BHINMAL	S/C	381	0	5.7	0.0	5.7	
12	400 kV	V'CHAL -RIHAND	S/C	961	0	22.5	0.0	22.5	
13	400 kV	RAPP-SHUALPUR	D/C	348	119	2.0	0.0	2.0	
14	220 kV	BHANPURA-RANPUR	S/C	78	34	0.0	0.1	-0.1	
15	220 kV	BHANPURA-MORAK	S/C	8	83	0.0	0.8	-0.8	
16	220 kV	MEHGAON-AURAIYA	S/C	94	0	1.4	0.0	1.4	
17	220 kV	MALANPUR-AURAIYA	S/C	59	0	0.8	0.0	0.8	
18	132 kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
						WR-NR	67.0	99.4	-32.4
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	1006	0.0	20.6	-20.6	
2	HVDC	BARSUR-L-SILERRU	-	0	0	0.0	0.0	0.0	
3	765 kV	SOLAPUR-RAICHUR	D/C	0	2691	0.0	34.0	-34.0	
4	765 kV	WARDHA-NIZAMABAD	D/C	0	3293	0.0	52.7	-52.7	
5	400 kV	KOLHAPUR-KUDGI	D/C	629	0	8.1	0.0	8.1	
6	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0	
7	220 kV	PONDA-AMBEWADI	S/C	0	44	0.0	0.9	-0.9	
8	220 kV	XELDEM-AMBEWADI	S/C	0	62	1.1	0.0	1.1	
						WR-SR	9.2	108.2	-99.0

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	15	0	-25	-0.6
	ER	MANGDECHHU (4 x 180) ALIPURDUAR RECEIPT	160	158	133	3.2
	ER	TALA (6 * 170) BINAGURI RECEIPT	146	77	103	2.5
	NER	132KV-SALAKATI - GELEPHU	13	0	-10	-0.2
	NER	132KV-RANGIA - DEOTHANG	1	0	5	0.1
NEPAL	NR	132KV-Tanakpur(NH) - Mahendranagar(PG)	0	0	0	-0.3
	ER	132KV-BIHAR - NEPAL	-112	-12	-63	-1.5
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-64	-12	-46	-1.1
BANGLADESH	ER	Bheramara HVDC(Bangladesh)	-508	-208	-336	-8.1
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	65	0	-55	-1.3
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	65	0	-55	-1.3