



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 Apr 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, लापालंग, 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 03.04.2020.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स. -5.5.1 के प्रावधान के अनुसार, दिनांक 03-अप्रैल-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 Apr 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-Apr-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)	33705	32943	35066	16454	2091	120259
Peak Shortage (MW)	500	0	0	0	196	696
Energy Met (MU)	654	858	911	338	33	2794
Hydro Gen (MU)	145	41	89	50	4	330
Wind Gen (MU)	20	44	32	-	-	96
Solar Gen (MU)*	46.62	29.20	92.64	4.76	0.03	173
Energy Shortage (MU)	10.1	0.0	0.0	0.0	1.5	11.6
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	34438	39129	42377	16599	2033	125927
Time Of Maximum Demand Met (From NLDC SCADA)	19:31	07:24	13:57	20:07	18:25	09:28

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	0.031	0.00	0.23	3.91	4.14	75.00	20.86

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	3460	0	72.1	53.6	-0.3	94	0.0
	Haryana	3725	0	70.3	67.2	0.4	306	0.0
	Rajasthan	8212	0	149.0	49.4	-1.9	340	0.0
	Delhi	2239	0	43.5	34.1	-1.9	106	0.0
	UP	14512	0	241.2	101.4	0.5	865	0.0
	Uttarakhand	1087	0	18.9	4.8	0.4	166	0.0
	HP	900	0	13.3	1.3	-0.7	56	0.0
	J&K(UT) & Ladakh(UT)	2113	373	43.2	33.6	-0.5	424	10.1
WR	Chandigarh	138	0	2.2	2.2	0.0	19	0.0
	Chhattisgarh	3242	0	75.4	29.3	-1.5	181	0.0
	Gujarat	10411	0	229.7	70.8	3.0	732	0.0
	MP	8637	0	165.4	93.8	-2.0	369	0.0
	Maharashtra	17388	0	376.0	147.4	-0.7	955	0.0
	Goa	355	0	7.2	7.4	-0.2	25	0.0
	DD	68	0	1.5	1.5	0.0	12	0.0
	DNH	83	0	1.8	1.8	0.0	28	0.0
SR	Essar steel	168	0	0.6	0.5	0.1	126	0.0
	Andhra Pradesh	8424	0	165.2	86.6	-0.5	395	0.0
	Telangana	9230	0	194.0	103.8	-0.6	824	0.0
	Karnataka	11435	0	226.2	84.5	1.4	492	0.0
	Kerala	3787	0	71.4	52.6	1.0	183	0.0
	Tamil Nadu	11168	0	250.2	179.8	1.4	536	0.0
ER	Puducherry	218	0	4.3	4.5	-0.2	51	0.0
	Bihar	4218	0	76.1	76.1	-1.3	168	0.0
	DVC	1472	0	29.3	-22.9	-0.3	221	0.0
	Jharkhand	1289	0	24.0	14.5	0.4	81	0.0
	Odisha	3297	0	70.7	10.2	-0.2	169	0.0
NER	West Bengal	6791	0	136.8	36.0	1.4	328	0.0
	Sikkim	100	0	1.3	1.4	-0.1	23	0.0
	Arunachal Pradesh	108	7	1.4	1.3	0.0	34	0.0
	Assam	1297	71	19.5	16.6	0.1	81	0.9
	Manipur	175	6	2.3	2.2	0.2	37	0.0
	Meghalaya	245	4	3.6	3.5	-0.2	48	0.1
	Mizoram	89	4	1.5	1.2	0.0	16	0.0
Nagaland	112	1	2.1	1.8	0.2	32	0.0	
Tripura	211	14	2.6	2.7	-1.0	69	0.5	

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	6.5	-2.7	-12.6
Day Peak (MW)	648.8	-275.1	-1027.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	94.3	-191.3	164.5	-66.2	-1.3	0.0
Actual(MU)	71.6	-192.2	187.3	-67.7	-3.0	-3.9
O/D/U/D(MU)	-22.7	-0.9	22.8	-1.5	-1.6	-3.9

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	6739	22856	6092	1975	399	38060
State Sector	21228	25826	14825	8470	112	70461
Total	27967	48681	20917	10445	511	108520

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	288	790	394	387	10	1869
Lignite	15	16	46	0	0	77
Hydro	145	41	89	50	4	330
Nuclear	24	37	52	0	0	113
Gas, Naptha & Diesel	23	94	18	0	25	161
RES (Wind, Solar, Biomass & Others)	95	82	138	5	0	320
Total	590	1060	738	442	40	2870

Share of RES in total generation (%)	16.09	7.78	18.71	1.09	0.08	11.16
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	44.70	15.10	37.90	12.50	11.18	26.59

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.069
Based on State Max Demands	1.115

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-Apr-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	251	0.0	6.0	-6.0	
3	765 kV	GAYA-VARANASI	D/C	162	354	0.0	1.7	-1.7	
4	765 kV	SASARAM-FATEHPUR	S/C	169	116	0.6	0.0	0.6	
5	765 kV	GAYA-BALIA	S/C	0	293	0.0	3.2	-3.2	
6	400 kV	PUSAULI-VARANASI	S/C	0	220	0.0	4.3	-4.3	
7	400 kV	PUSAULI-ALLAHABAD	S/C	0	126	0.0	1.6	-1.6	
8	400 kV	MUZAFFARPUR-GORAKHPUR	D/C	87	510	0.0	4.7	-4.7	
9	400 kV	PATNA-BALIA	Q/C	0	596	0.0	8.2	-8.2	
10	400 kV	BIHARSHARIFF-BALIA	D/C	28	252	0.0	2.3	-2.3	
11	400 kV	MOTIHARI-GORAKHPUR	D/C	0	237	0.0	3.3	-3.3	
12	400 kV	BIHARSHARIFF-VARANASI	D/C	197	149	1.1	0.0	1.1	
13	220 kV	PUSAULI-SAHUPURI	S/C	34	174	0.0	2.9	-2.9	
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-CHANDAUJI	S/C	0	0	0.0	0.0	0.0	
						ER-NR	2.2	38.2	-36.0
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1377	0	25.8	0.0	25.8	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	591	503	0.1	0.0	0.1	
3	765 kV	JHARSUGUDA-DURG	D/C	70	177	0.0	1.3	-1.3	
4	400 kV	JHARSUGUDA-RAIGARH	Q/C	3	287	0.0	3.3	-3.3	
5	400 kV	RANCHI-SIPAT	D/C	208	186	0.2	0.0	0.2	
6	220 kV	BUDHIPADAR-RAIGARH	S/C	0	130	0.0	2.2	-2.2	
7	220 kV	BUDHIPADAR-KORBA	D/C	142	0	1.9	0.0	1.9	
						ER-WR	27.9	6.8	21.1
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0	564	0.0	8.5	-8.5	
2	HVDC	TALCHER-KOLAR BIPOLE	D/C	0	2455	0.0	49.7	-49.7	
3	765 kV	ANGUL-SRIKAKULAM	D/C	0	3057	0.0	58.4	-58.4	
4	400 kV	TALCHER-I/C	D/C	0	973	0.0	6.5	-6.5	
5	220 kV	BALIMELA-UPPER-SILERRU	S/C	1	0	0.0	0.0	0.0	
						ER-SR	0.0	116.6	-116.6
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	D/C	381	0	6.1	0.0	6.1	
2	400 kV	ALIPURDUAR-BONGAIGAON	D/C	464	0	6.8	0.0	6.8	
3	220 kV	ALIPURDUAR-SALAKATI	D/C	98	0	1.4	0.0	1.4	
						ER-NER	14.3	0.0	14.3
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	-	468	0	11.8	0.0	11.8	
						NER-NR	11.8	0.0	11.8
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	D/C	0	0	0.0	3.8	-3.8	
2	HVDC	V'CHAL B/B	D/C	451	0	12.1	0.0	12.1	
3	HVDC	APL -MHG	D/C	0	693	0.0	17.0	-17.0	
4	765 kV	GWALIOR-AGRA	D/C	0	1933	0.0	27.7	-27.7	
5	765 kV	PHAGI-GWALIOR	D/C	0	1062	0.0	17.1	-17.1	
6	765 kV	JABALPUR-ORAI	D/C	1	652	0.0	17.1	-17.1	
7	765 kV	GWALIOR-ORAI	S/C	561	0	11.7	0.0	11.7	
8	765 kV	SATNA-ORAI	S/C	0	1166	0.0	23.9	-23.9	
9	765 kV	CHITORGARH-BANASKANTHA	D/C	372	399	2.6	1.8	0.8	
10	400 kV	ZERDA-KANKROLI	S/C	175	50	2.4	0.0	2.4	
11	400 kV	ZERDA -BHINMAL	S/C	406	86	3.0	0.0	3.0	
12	400 kV	V'CHAL -RIHAND	S/C	972	0	22.4	0.0	22.4	
13	400 kV	RAPP-SHUJALPUR	D/C	221	194	2.0	0.8	1.3	
14	220 kV	BHANPURA-RANPUR	S/C	50	42	0.0	0.0	0.0	
15	220 kV	BHANPURA-MORAK	S/C	0	111	0.0	1.5	-1.5	
16	220 kV	MEHGAON-AURAIYA	S/C	134	0	1.6	0.0	1.6	
17	220 kV	MALANPUR-AURAIYA	S/C	101	0	1.0	0.0	1.0	
18	132 kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
						WR-NR	59.0	110.7	-51.7
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	1006	0.0	24.0	-24.0	
2	HVDC	BARSUR-LSILERU	-	0	0	0.0	0.0	0.0	
3	765 kV	SOLAPUR-RAICHUR	D/C	0	2628	0.0	40.7	-40.7	
4	765 kV	WARDHA-NIZAMABAD	D/C	0	3131	0.0	52.6	-52.6	
5	400 kV	KOLHAPUR-KUDGI	D/C	512	384	2.6	1.9	0.7	
6	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0	
7	220 kV	PONDA-AMBEWADI	S/C	0	56	0.0	1.1	-1.1	
8	220 kV	XELDEM-AMBEWADI	S/C	0	57	1.0	0.0	1.0	
						WR-SR	3.7	120.3	-116.6

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	19	0	-3	-0.1
	ER	MANGDECHHU (4 x 180) ALIPURDUAR RECEIPT	203	148	136	3.3
	ER	TALA (6 * 170) BINAGURI RECEIPT	286	116	154	3.7
	NER	132KV-SALAKATI - GELEPHU	20	0	-15	-0.4
	NER	132KV-RANGIA - DEOTHANG	11	0	-3	-0.1
NEPAL	NR	132KV-Tanakpur(NH) - Mahendranagar(PG)	0	0	0	-0.5
	ER	132KV-BIHAR - NEPAL	-33	-4	-19	-0.4
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-200	-42	-73	-1.7
BANGLADESH	ER	Bheramara HVDC(Bangladesh)	-956	-204	-450	-10.8
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	36	0	-37	-0.9
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	35	0	-37	-0.9