



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:02nd 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, 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 01.04.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.5.5.1 के प्रावधान के अनुसार, दिनांक 01-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 01st 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: 02-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)	32699	32386	34817	16596	2180	118678
Peak Shortage (MW)	1026	0	0	0	40	1066
Energy Met (MU)	638	822	903	333	35	2731
Hydro Gen (MU)	150	44	87	48	4	332
Wind Gen (MU)	12	46	31	-	-	89
Solar Gen (MU)*	45.80	29.30	90.17	4.68	0.04	170
Energy Shortage (MU)	10.2	0.0	0.0	0.0	0.8	11.0
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	33463	37418	42349	16707	2260	123307
Time Of Maximum Demand Met (From NLDC SCADA)	19:41	07:15	10:44	20:52	18:21	09:22

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	0.061	0.46	1.39	15.27	17.13	73.78	9.09

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	3228	0	63.5	48.1	-0.7	238	0.0
	Haryana	3635	0	66.8	63.8	0.5	207	0.0
	Rajasthan	7996	0	145.1	50.3	-2.3	139	0.0
	Delhi	2413	0	44.9	33.6	-0.6	84	0.0
	UP	13959	425	241.2	110.0	0.4	1306	0.0
	Uttarakhand	1140	0	18.2	3.9	0.2	182	0.0
	HP	871	0	12.6	0.1	-0.6	132	0.0
	J&K(UT) & Ladakh(UT)	2165	541	43.5	33.2	0.8	499	10.2
	Chandigarh	154	0	2.2	2.2	0.0	53	0.0
	Chhattisgarh	3273	0	73.4	26.6	-2.5	280	0.0
WR	Gujarat	10148	0	221.5	63.6	2.5	587	0.0
	MP	8495	0	162.7	96.9	-0.9	466	0.0
	Maharashtra	16238	0	353.3	143.1	-1.4	556	0.0
	Goa	357	0	7.2	7.2	0.0	31	0.0
	DD	65	0	1.4	1.4	0.0	26	0.0
	DNH	77	0	1.7	1.7	0.0	35	0.0
	AMNSIL	179	0	0.7	0.5	0.2	133	0.0
	Andhra Pradesh	8321	0	163.7	91.0	-0.7	473	0.0
	Telangana	9662	0	200.5	108.3	0.7	1247	0.0
	Karnataka	11227	0	220.7	78.8	0.8	677	0.0
SR	Kerala	3727	0	70.3	52.5	0.5	225	0.0
	Tamil Nadu	11498	0	243.9	175.4	-2.2	479	0.0
	Puducherry	216	0	4.2	4.4	-0.3	72	0.0
	Bihar	4125	0	77.4	73.3	2.8	618	0.0
	DVC	1569	0	30.3	-19.5	-1.7	321	0.0
	Jharkhand	1284	0	23.0	15.2	-1.0	107	0.0
	Odisha	3535	0	73.2	7.7	-0.1	289	0.0
	West Bengal	6761	0	127.6	35.5	0.4	359	0.0
	Sikkim	90	0	1.1	1.4	-0.3	27	0.0
	NER	Arumachal Pradesh	112	1	1.5	0.9	0.5	23
Assam		1307	30	20.9	17.9	-0.1	86	0.6
Manipur		191	1	2.4	2.2	0.2	30	0.0
Meghalaya		233	0	3.4	2.9	-0.3	41	0.1
Mizoram		94	2	1.6	1.3	0.0	24	0.0
Nagaland		123	2	2.0	1.9	0.0	34	0.0
Tripura		242	1	3.8	3.0	-0.1	48	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	5.3	-1.9	-14.4
Day Peak (MW)	486.2	-293.7	-1078.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	85.6	-181.9	161.2	-70.5	4.3	-1.4
Actual(MU)	60.9	-194.3	181.5	-61.8	6.8	-7.0
OD/UD(MU)	-24.8	-12.4	20.3	8.7	2.5	-5.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	6807	22972	5882	2975	1012	39648
State Sector	21403	26446	14888	8270	11	71018
Total	28210	49417	20770	11245	1023	110665

G. Sourcwise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	281	754	384	373	8	1799
Lignite	19	15	51	0	0	85
Hvdro	150	44	87	48	4	332
Nuclear	23	37	55	0	0	115
Gas, Naptha & Diesel	23	84	18	0	22	148
RES (Wind, Solar, Biomass & Others)	87	87	128	5	0	306
Total	583	1020	722	426	34	2785
Share of RES in total generation (%)	14.96	8.50	17.69	1.12	0.12	11.00
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total	44.64	16.43	37.28	12.38	11.81	27.07

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.072
Based on State Max Demands	1.125

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: 02-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	249	0.0	6.1	-6.1	
3	765 kV	GAYA-VARANASI	D/C	259	274	0.0	0.4	-0.4	
4	765 kV	SASARAM-FATEHPUR	S/C	194	123	1.4	0.0	1.4	
5	765 kV	GAYABALLIA	S/C	29	289	0.0	3.4	-3.4	
6	400 kV	PUSAULI-VARANASI	S/C	0	231	0.0	4.6	-4.6	
7	400 kV	PUSAULI-ALLAHABAD	S/C	0	121	0.0	1.3	-1.3	
8	400 kV	MUZAFFARPUR-GORAKHPUR	D/C	222	496	0.0	2.5	-2.5	
9	400 kV	PATNA-BALLIA	Q/C	55	573	0.0	6.5	-6.5	
10	400 kV	BIHARSHARIFF-BALLIA	D/C	73	220	0.0	1.7	-1.7	
11	400 kV	MOTIHARI-GORAKHPUR	D/C	0	233	0.0	3.2	-3.2	
12	400 kV	BIHARSHARIFF-VARANASI	D/C	268	128	2.3	0.0	2.3	
13	220 kV	PUSAULI-SAHUPURI	S/C	0	139	0.0	2.5	-2.5	
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	4.2	32.2	-28.0
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1782	0	28.3	0.0	28.3	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	574	627	2.2	0.0	2.2	
3	765 kV	JHARSUGUDA-DURG	D/C	101	211	0.0	0.9	-0.9	
4	400 kV	JHARSUGUDA-RAIGARH	Q/C	108	312	0.0	2.1	-2.1	
5	400 kV	RANCHI-SIPAT	D/C	241	200	1.9	0.0	1.9	
6	220 kV	BUDHIPADAR-RAIGARH	S/C	0	142	0.0	1.8	-1.8	
7	220 kV	BUDHIPADAR-KORBA	D/C	160	0	2.1	0.0	2.1	
						ER-WR	34.4	4.8	29.6
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0	645	0.0	8.5	-8.5	
2	HVDC	TALCHER-KOLAR BIPOLE	D/C	0	1984	0.0	47.9	-47.9	
3	765 kV	ANGUL-SRIKAKULAM	D/C	0	2935	0.0	55.3	-55.3	
4	400 kV	TALCHER-I/C	D/C	0	1247	0.0	10.1	-10.1	
5	220 kV	BALIMELA-UPPER-SILERRU	S/C	1	0	0.0	0.0	0.0	
						ER-SR	0.0	111.8	-111.8
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	D/C	207	96	1.7	0.0	1.7	
2	400 kV	ALIPURDUAR-BONGAIGAON	D/C	224	82	1.9	0.0	1.9	
3	220 kV	ALIPURDUAR-SALAKATI	D/C	52	24	0.4	0.0	0.4	
						ER-NER	4.1	0.0	4.1
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	-	467	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	3.6	-3.6	
2	HVDC	V'CHAL B/B	D/C	451	0	12.1	0.0	12.1	
3	HVDC	APL -MHG	D/C	0	691	0.0	13.6	-13.6	
4	765 kV	GWALIOR-AGRA	D/C	0	1855	0.0	30.6	-30.6	
5	765 kV	PHAGI-GWALIOR	D/C	0	1220	0.0	16.8	-16.8	
6	765 kV	JABALPUR-ORAI	D/C	0	602	0.0	17.5	-17.5	
7	765 kV	GWALIOR-ORAI	S/C	625	0	9.3	0.0	9.3	
8	765 kV	SAINA-ORAI	S/C	0	1188	0.0	24.2	-24.2	
9	765 kV	CHITORGARH-BANASKANTHA	D/C	386	200	3.0	0.0	3.0	
10	400 kV	ZERDA-KANKROLI	S/C	178	0	2.7	0.0	2.7	
11	400 kV	ZERDA -BHINMAL	S/C	276	43	3.3	0.0	3.3	
12	400 kV	V'CHAL -RIHAND	S/C	972	0	22.6	0.0	22.6	
13	400 kV	RAPP-SHUJALPUR	D/C	251	167	0.5	0.0	0.5	
14	220 kV	BHANPURA-RANPUR	S/C	55	38	0.0	0.0	0.0	
15	220 kV	BHANPURA-MORAK	S/C	0	98	0.0	1.4	-1.4	
16	220 kV	MEHGAON-AURAIYA	S/C	80	1	0.2	0.0	0.2	
17	220 kV	MALANPUR-AURAIYA	S/C	138	0	1.4	0.0	1.4	
18	132 kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
						WR-NR	55.0	107.7	-52.7
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	1006	0.0	21.9	-21.9	
2	HVDC	BARSUR-L-SILERRU	-	0	0	0.0	0.0	0.0	
3	765 kV	SOLAPUR-RAICHUR	D/C	0	2445	0.0	37.9	-37.9	
4	765 kV	WARDHA-NIZAMABAD	D/C	0	3016	0.0	53.6	-53.6	
5	400 kV	KOLHAPUR-KUDGI	D/C	630	236	3.4	0.8	2.7	
6	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0	
7	220 kV	PONDA-AMBEWADI	S/C	0	53	0.0	1.1	-1.1	
8	220 kV	XELDEM-AMBEWADI	S/C	0	58	1.1	0.0	1.1	
						WR-SR	4.5	115.2	-110.7

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	29	0	-14	-0.3
	ER	MANGDECHHU (4 x 180) ALIPURDUAR RECEIPT	159	132	135	3.2
	ER	TALA (6 * 170) BINAGURI RECEIPT	149	61	110	2.7
	NER	132KV-SALAKATI - GELEPHU	18	0	-11	-0.3
NEPAL	NER	132KV-RANGIA - DEOTHANG	16	0	-1	0.0
	NR	132KV-Tanakpur(NH) - Mahendranagar(PG)	0	0	0	-0.4
	ER	132KV-BIHAR - NEPAL	-128	0	-19	-0.5
BANGLADESH	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-136	-18	-43	-1.0
	ER	Bheramara HVDC(Bangladesh)	-942	-252	-486	-11.7
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	68	0	-56	-1.4
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	68	0	-56	-1.4