



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: 22nd 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 21.04.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.5.5.1 के प्रावधान के अनुसार, दिनांक 21-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 21st Apr 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: 22-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 2000 hrs; from RLDCs)	37400	37046	33798	12711	1625	122580
Peak Shortage (MW)	484	0	0	0	374	858
Energy Met (MU)	712	939	851	259	28	2789
Hydro Gen (MU)	166	43	71	56	6	342
Wind Gen (MU)	8	44	20	-	-	72
Solar Gen (MU)*	38.21	28.75	91.81	4.62	0.01	163
Energy Shortage (MU)	9.6	0.0	0.0	0.0	2.6	12.2
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	38420	40818	39669	14381	1608	126260
Time Of Maximum Demand Met (From NLDC SCADA)	20:07	23:32	09:30	00:01	20:08	22:27

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	0.051	0.00	0.81	9.00	9.81	71.59	18.60

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	4002	0	68.5	54.2	-2.1	35	0.0
	Haryana	5052	0	84.4	75.8	2.1	228	0.0
	Rajasthan	8281	0	163.0	55.9	1.3	698	0.0
	Delhi	2729	0	56.8	46.7	-1.8	25	0.0
	UP	15598	0	260.2	106.7	1.1	741	0.0
	Uttarakhand	1199	0	22.6	7.0	0.2	84	0.0
	HP	831	0	13.9	-2.6	1.3	178	0.0
	J&K(UT) & Ladakh(UT)	1946	487	40.4	31.8	-3.8	23	9.6
WR	Chandigarh	127	0	2.4	2.7	-0.3	20	0.0
	Chhattisgarh	3207	0	70.6	16.7	-1.4	205	0.0
	Gujarat	11967	0	268.0	95.0	-0.6	685	0.0
	MP	8810	0	185.8	108.4	1.0	804	0.0
	Maharashtra	17686	0	399.1	161.5	-0.4	354	0.0
	Goa	415	0	8.2	8.1	-0.1	77	0.0
	DD	118	0	2.7	2.6	0.0	47	0.0
	DNH	139	0	3.0	3.0	0.0	38	0.0
SR	AMNSIL	317	0	1.2	1.0	0.2	142	0.0
	Andhra Pradesh	8416	0	169.3	96.0	-0.3	421	0.0
	Telangana	6715	0	142.9	57.6	-1.7	369	0.0
	Karnataka	10370	0	207.2	68.6	-1.9	428	0.0
	Kerala	3609	0	71.3	49.9	0.3	206	0.0
	Tamil Nadu	10871	0	255.0	181.7	-0.8	351	0.0
	Puducherry	290	0	5.6	6.1	-0.4	24	0.0
ER	Bihar	4051	0	64.0	67.0	-3.7	380	0.0
	DVC	1491	0	27.7	-16.6	-1.7	130	0.0
	Jharkhand	1103	0	18.8	12.6	-1.9	120	0.0
	Odisha	3468	0	64.6	2.4	-2.3	240	0.0
	West Bengal	4740	0	82.4	24.2	-3.6	405	0.0
	Sikkim	102	0	1.3	1.5	-0.2	25	0.0
NER	Arunachal Pradesh	59	3	1.1	1.2	-0.2	18	0.2
	Assam	870	350	14.8	12.6	-0.7	96	1.4
	Manipur	186	8	2.1	2.1	0.0	31	0.4
	Meghalaya	240	0	3.8	2.8	-0.2	44	0.1
	Mizoram	78	5	1.4	1.1	0.2	17	0.2
	Nagaland	85	11	1.4	1.6	-0.3	9	0.3
	Tripura	237	1	3.5	3.1	-0.8	48	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	9.9	-0.7	-13.6
Day Peak (MW)	753.6	-175.8	-690.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	102.1	-165.5	158.5	-91.6	-3.7	-0.2
Actual(MU)	103.3	-158.7	169.9	-108.0	-7.3	-0.8
O/D/U/D(MU)	1.2	6.8	11.4	-16.4	-3.6	-0.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	6618	21126	8882	2930	1012	40567
State Sector	19383	24808	13228	8352	11	65782
Total	26001	45933	22110	11282	1023	106349

G. Sourcwise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	318	880	375	339	7	1919
Lignite	20	11	43	0	0	73
Hydro	166	43	71	56	6	342
Nuclear	28	37	51	0	0	116
Gas, Naptha & Diesel	23	62	20	0	25	129
RES (Wind, Solar, Biomass & Others)	77	85	131	5	0	297
Total	630	1118	692	400	38	2877

Share of RES in total generation (%)	12.15	7.57	18.95	1.16	0.03	10.32
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	42.86	14.71	36.66	15.12	16.98	26.24

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.068
Based on State Max Demands	1.104

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: 22-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	0	678	0.0	8.4	-8.4
4	765 kV	SASARAM-FATEHPUR	S/C	62	304	0.0	2.6	-2.6
5	765 kV	GAYA-BALIA	S/C	0	365	0.0	6.2	-6.2
6	400 kV	PUSAULI-VARANASI	S/C	0	210	0.0	3.8	-3.8
7	400 kV	PUSAULI -ALLAHABAD	S/C	0	145	0.0	2.1	-2.1
8	400 kV	MUZAFFARPUR-GORAKHPUR	D/C	0	616	0.0	8.8	-8.8
9	400 kV	PATNA-BALIA	Q/C	0	901	0.0	13.6	-13.6
10	400 kV	BIHARSHARIFF-BALIA	D/C	0	524	0.0	7.0	-7.0
11	400 kV	MOTIHARI-GORAKHPUR	D/C	0	263	0.0	4.1	-4.1
12	400 kV	BIHARSHARIFF-VARANASI	D/C	54	353	0.0	3.0	-3.0
13	220 kV	PUSAULI-SAHUPURI	S/C	0	151	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						0.5	67.9	-67.4
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1387	0	16.8	0.0	16.8
2	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	338	371	1.0	0.0	1.0
3	765 kV	JHARSUGUDA-DURG	D/C	16	323	0.0	3.4	-3.4
4	400 kV	JHARSUGUDA-RAIGARH	Q/C	70	219	0.0	2.1	-2.1
5	400 kV	RANCHI-SIPAT	D/C	216	213	0.4	0.0	0.4
6	220 kV	BUDHIPADAR-RAIGARH	S/C	0	128	0.0	2.0	-2.0
7	220 kV	BUDHIPADAR-KORBA	D/C	146	0	2.4	0.0	2.4
ER-WR						20.5	7.5	13.1
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0	645	0.0	9.1	-9.1
2	HVDC	TALCHER-KOLAR BIPOLE	D/C	0	1984	0.0	48.0	-48.0
3	765 kV	ANGUL-SRIKAKULAM	D/C	30096	2984	0.0	59.6	-59.6
4	400 kV	TALCHER-I/C	D/C	0	998	0.0	10.8	-10.8
5	220 kV	BALIMELA-UPPER-SILERRU	S/C	1	0	0.0	0.0	0.0
ER-SR						0.0	116.7	-116.7
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	D/C	416	0	8.5	0.0	8.5
2	400 kV	ALIPURDUAR-BONGAIGAON	D/C	553	0	9.8	0.0	9.8
3	220 kV	ALIPURDUAR-SALAKATI	D/C	113	0	1.8	0.0	1.8
ER-NER						20.1	0.0	20.1
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	-	490	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	4.4	-4.4
2	HVDC	V'CHAL B/B	D/C	447	0	12.1	0.0	12.1
3	HVDC	APL -MHG	D/C	0	1125	0.0	21.2	-21.2
4	765 kV	GWALIOR-AGRA	D/C	0	1803	0.0	31.4	-31.4
5	765 kV	PHAGI-GWALIOR	D/C	0	858	0.0	14.7	-14.7
6	765 kV	JABALPUR-ORAI	D/C	0	602	0.0	18.1	-18.1
7	765 kV	GWALIOR-ORAI	S/C	495	0	9.8	0.0	9.8
8	765 kV	SATNA-ORAI	S/C	0	1073	0.0	22.6	-22.6
9	765 kV	CHITORGARH-BANASKANTHA	D/C	808	515	4.4	0.0	4.4
10	400 kV	ZERDA-KANKROLI	S/C	239	35	3.0	0.0	3.0
11	400 kV	ZERDA -BHINMAL	S/C	301	70	3.1	0.0	3.1
12	400 kV	V'CHAL -RIHAND	S/C	960	0	22.3	0.0	22.3
13	400 kV	RAPP-SHUJALPUR	D/C	269	132	1.3	0.0	1.3
14	220 kV	BHANPURA-RANPUR	S/C	45	65	0.0	0.8	-0.8
15	220 kV	BHANPURA-MORAK	S/C	0	71	0.0	1.2	-1.2
16	220 kV	MEHGAON-AURAIYA	S/C	102	0	1.4	0.0	1.4
17	220 kV	MALANPUR-AURAIYA	S/C	72	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						58.2	114.3	-56.1
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	515	0.0	12.2	-12.2
2	HVDC	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0
3	765 kV	SOLAPUR-RAICHUR	D/C	0	2225	0.0	34.7	-34.7
4	765 kV	WARDHA-NIZAMABAD	D/C	0	2640	0.0	46.7	-46.7
5	400 kV	KOLHAPUR-KUDGI	D/C	355	198	1.1	0.0	1.1
6	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0
7	220 kV	PONDA-AMBEWADI	S/C	2	38	0.0	0.4	-0.4
8	220 kV	XELDEM-AMBEWADI	S/C	0	62	1.1	0.0	1.1
WR-SR						2.2	94.0	-91.8

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	116	107	30	0.7
	ER	MANGDECHHU (4 x 180) ALIPURDUAR RECEIPT	247	246	209	5.0
	ER	TALA (6 * 170) BINAGURI RECEIPT	234	162	145	3.5
	NER	132KV-SALAKATI - GELEPHU	13	0	-2	0.0
	NER	132KV-RANGIA - DEOTHANG	21	0	15	0.4
NEPAL	NR	132KV-Tanakpur(NH) - Mahendranagar(PG)	0	0	0	0.0
	ER	132KV-BIHAR - NEPAL	-12	-2	-1	0.0
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-164	-2	-26	-0.6
BANGLADESH	ER	Bheramara HVDC(Bangladesh)	-564	-268	-472	-11.3
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	63	0	-47	-1.1
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	63	0	-47	-1.1