

National Load Despatch Centre राष्ट्रीय भार प्रेषण केंद्र

POWER SYSTEM OPERATION CORPORATION LIMITED पॉवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड

(Government of India Enterprise/ भारत सरकार का उद्यम) B-9, QUTUB INSTITUTIONAL AREA, KATWARIA SARAI, NEW DELHI -110016 बी-9, कृतुब इन्स्टीट्यूशनल एरिया, कटवारिया सराये, न्यू दिल्ली-110016

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 23rd Apr 2019

To,

- 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. मुख्य महाप्रबंधक, ऊ. पू. क्षे. भा. प्रे. के., डोंगतिएह, लोअर नोंग्रह , लापलंग, शिलोंग 793006 Chief General Manager, 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 22.04.2019.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 22-अप्रैल-2019 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा॰भा॰प्रे॰के॰ की वेबसाइट पर उप्लब्ध 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 22nd April 2019, 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 23-Apr-19

A. Maximum Demand

	NR	WR	SR	ER	NER	Total
Demand Met during Evening Peak hrs(MW) (at 1900 hrs; from RLDCs)	47645	50357	40828	20259	2435	161524
Peak Shortage (MW)	507	25	0	0	137	669
Energy Met (MU)	1002	1228	987	416	41	3675
Hydro Gen (MU)	213	42	68	42	6	372
Wind Gen (MU)	18	54	38			111
Solar Gen (MU)*	25.83	26.98	85.17	2.04	0.04	140
Energy Shortage (MU)	11.6	0.4	0.0	0.0	1.5	13.5
Maximum Demand Met during the day	48650	54974	44882	20487	2438	163392
(MW) & time (from NLDC SCADA)	20:48	15:46	11:51	19:59	19:49	19:40

B. Frequency Profile (%)
Region
All India FVI <49.7 49.7-49.8 49.8-49.9 49.9-50.05 > 50.05 0.035 0.00 0.34 6.40 78.11 15.49

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
	Punjab	6076	0	122,1	43.9	-1.0	127	0.0
	Haryana	7240	0	128.2	93.5	0.4	189	0.1
	Rajasthan	9477	0	205.5	61.5	-0.6	320	0.0
	Delhi	4525	0	91.9	77.2	-0.7	121	0.0
NR	UP	17507	0	342.3	160.9	2.2	573	0.9
	Uttarakhand	1882	0	38.3	15.6	0.1	105	0.0
	HP	1343	0	25.4	8.7	-1.2	87	0.0
	J&K	2149	537	44.2	27.9	-1.0	221	10.5
	Chandigarh	202	0	4.1	4.4	-0.4	8	0.0
	Chhattisgarh	4389	0	99.9	42.9	-2.3	525	0.4
	Gujarat	17049	0	381.2	111.0	1.8	493	0.0
	MP	9224	0	206.1	93.4	-1.5	453	0.0
WR	Maharashtra	22464	0	495.0	142.0	-0.3	627	0.0
WK	Goa	548	0	13.8	10.7	2.9	82	0.0
	DD	336	0	7.5	7.1	0.4	34	0.0
	DNH	805	0	18.7	18.4	0.3	70	0.0
	Essar steel	302	0	6.0	5.7	0.3	293	0.0
	Andhra Pradesh	8354	0	177.6	57.7	-0.3	464	0.0
	Telangana	7577	0	161.6	45.4	-1.1	723	0.0
SR	Karnataka	12079	0	235.4	72.5	-0.3	544	0.0
JI.	Kerala	3892	0	79.3	58.0	1.0	165	0.0
	Tamil Nadu	14568	0	324.7	180.0	-2.1	656	0.0
	Pondy	435	0	8.9	9.0	-0.1	56	0.0
	Bihar	4756	0	93.5	87.7	0.3	150	0.0
	DVC	3138	0	66.6	-50.2	0.2	50	0.0
ER	Jharkhand	1199	0	23.4	13.8	-0.7	100	0.0
LIN	Odisha	3521	0	79.9	23.9	0.5	120	0.0
	West Bengal	8190	0	151.5	42.2	-0.2	500	0.0
	Sikkim	95	0	1.2	1.4	-0.2	18	0.0
	Arunachal Pradesh	116	1	1.9	2.5	-0.5	6	0.0
	Assam	1473	83	23.8	19.4	0.8	115	1.0
	Manipur	152	2	2.6	2.5	0.2	32	0.0
NER	Meghalaya	306	0	5.0	3.3	0.1	39	0.4
	Mizoram	93	1	1.6	1.3	0.1	19	0.0
	Nagaland	133	3	2.1	2.0	0.1	21	0.0
	Tripura	296	1	4.3	4.2	0.1	40	0.0

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

	Bhutan	Nepal	Bangladesh		
Actual(MU)	5.4	-8.8	-21.5		
Day peak (MW)	446.9	-523.0	-1007.0		

 $\underline{E.\ Import/export\ By\ Regions(in\ MU)\ -\ Import(+ve)/Export(-ve);\ OD(+)/UD(-)}$

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	174.9	-243.8	126.6	-57.4	0.1	0.4
Actual(MU)	172.3	-236.4	127.7	-65.5	1.4	-0.5
O/D/U/D(MU)	-2.7	7.4	1.1	-8.1	1.2	-1.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	5555	13917	6502	2100	569	28643
State Sector	12010	12999	4720	2385	50	32164
Total	17565	26916	11222	4485	619	60807

G. Sourcewise generation (MII)

	NR	WR	SR	ER	NER	All India
Coal	485	1262	543	471	10	2770
Lignite	16	15	50	0	0	81
Hydro	213	42	68	42	6	372
Nuclear	28	27	37	0	0	92
Gas, Naptha & Diesel	31	49	16	0	28	123
RES (Wind, Solar, Biomass & Others)	72	88	158	2	0	319
Total	845	1483	870	515	45	3758

Share of RES in total generation (%)	8.51	5.92	18.12	0.41	0.09	8.50
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	37.03	10.62	30.13	8.64	14.02	20.84

H. Diversity Factor
All India Demand Diversity Factor
1.049
Diversity factor = Sum of regional maximum demands / All India maximum demand

 $\textbf{*}\underline{\textbf{Source}}\textbf{:} \textbf{RLDCs} \ \text{for solar connected to ISTS; SLDCs} \ \text{for embedded solar.} \ Limited \ visibility \ \text{of embedded solar} \ \text{data}.$

		INT	ER-REGI	ONAL EXCHA	ANGES	Date of I	Reporting :	23-Apr-19
								Import=(+ve) /Export =(-ve) for NET (MU)
Sl No	Voltage Level	Line Details	Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)
Import/E		ER (With NR)						
2	765kV	GAYA-VARANASI SASARAM-FATEHPUR	D/C S/C	0	561 331	0.0	9.3 4.5	-9.3 -4.5
3	705KV	GAYA-BALIA	S/C	0	357	0.0	6.3	-6.3
4	HVDC	ALIPURDUAR-AGRA	-	0	0	0.0	0.0	0.0
5	пурс	PUSAULI B/B	S/C	0	49	0.0	1.3	-1.3
6		PUSAULI-VARANASI	S/C	0	58	0.0	1.0	-1.0
7 8		PUSAULI -ALLAHABAD MUZAFFARPUR-GORAKHPUR	S/C D/C	0	59 742	0.0	0.2 12.0	-0.2 -12.0
9	400 kV	PATNA-BALIA	Q/C	0	747	0.0	14.5	-12.0
10	100 111	BIHARSHARIFF-BALIA	D/C	0	317	0.0	6.6	-6.6
11		MOTIHARI-GORAKHPUR	D/C	0	308	0.0	6.1	-6.1
12		BIHARSHARIFF-VARANASI	D/C	5	0	0.0	0.0	0.0
13	220 kV	PUSAULI-SAHUPURI	S/C	0	179	0.0	3.7	-3.7
14		SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	S/C	30	0	0.6	0.0	0.6
16		KARMANASA-SAHUPURI	S/C S/C	0	0	0.0	0.0	0.0
17	I	KARMANASA-CHANDAULI	S/C	U	ER-NR	0.0 0.6	0.0 65.4	0.0 -64.8
Import/E	export of	ER (With WR)			2A-11K	0.0	00.4	1 -04.0
18		JHARSUGUDA-DHARAMJAIGARH S/C	D/C	1854	0	33.4	0.0	33.4
	765 kV							
19 20		NEW RANCHI-DHARAMJAIGARH JHARSUGUDA-DURG	D/C D/C	590 200	58 43	3.9 1.2	0.0	3.9 1.2
21	400 1 77	JHARSUGUDA-RAIGARH	Q/C	223	112	0.4	0.0	0.4
22	400 kV	RANCHI-SIPAT	D/C	217	3	1.2	0.0	1.2
23	220 kV	BUDHIPADAR-RAIGARH	S/C	0	116	0.0	1.9	-1.9
24		BUDHIPADAR-KORBA	D/C	152	0	2.4	0.0	2.4
T	·	ED (WAL CD)			ER-WR	42.5	1.9	40.7
25	_	ER (With SR) ANGUL-SRIKAKULAM	D/C	0.0	1799.0	0.0	34.0	-34.0
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	692.0	0.0	16.1	-34.0
27	LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	1981.0	0.0	47.0	-47.0
28	400 kV	TALCHER-I/C	D/C	145.0	424.0	0.0	4.0	-4.0
29	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0
					ER-SR	0.0	97.1	-97.1
	export of	ER (With NER)			T			T .
30	400 kV	BINAGURI-BONGAIGAON	D/C	340	200	4.3	0.0	4
31	220 kV	ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI	D/C D/C	443 80	141 46	6.2 1.0	0.0	6
32	220 K V	ALIFURDUAR-SALAKATI	D/C	80	ER-NER	11.6	0.0	11.6
Import/E	export of	NER (With NR)						
33	HVDC	BISWANATH CHARIALI-AGRA	-	660	0	12.9	0.0	12.9
					NER-NR	12.9	0.0	12.9
_	xport of	WR (With NR)	T T		T			T
34	HWDC	CHAMPA-KURUKSHETRA	D/C	0	1001	0.0	14.4	-14.4
35	HVDC	V'CHAL B/B APL -MHG	D/C	243 0	1260	6.0 0.0	0.0	6.0
36 37		GWALIOR-AGRA	D/C D/C	0	1360 2434	0.0	33.9 41.9	-33.9 -41.9
38	1	PHAGI-GWALIOR	D/C	0	1027	0.0	20.2	-20.2
39	705	JABALPUR-ORAI	D/C	0	751	0.0	24.5	-24.5
40	765 kV	GWALIOR-ORAI	S/C	516	0	10.7	0.0	10.7
41		SATNA-ORAI	S/C	0	1300	0.0	25.9	-25.9
42		CHITORGARH-BANASKANTHA	D/C	250	420	0.0	1.1	1.1
43		ZERDA-KANKROLI	S/C	195	28	2.6	0.0	2.6
44	400 kV	ZERDA -BHINMAL	S/C	114	114	0.3	0.0	0.3
45 46		V'CHAL -RIHAND RAPP-SHUJALPUR	S/C D/C	980 105	239	22.3 0	0.0	22.3
46		BADOD-KOTA	S/C	33	62	0.0	0.6	-0.6
48	1	BADOD-KOTA BADOD-MORAK	S/C	0	93	0.0	1.5	-1.5
49	220 kV	MEHGAON-AURAIYA	S/C	49	8	0.4	0.0	0.4
50	L	MALANPUR-AURAIYA	S/C	18	42	0.0	0.3	-0.3
51	132kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0
					WR-NR	42.3	165.0	-120.6
	_	WR (With SR)			101			T
52	HVDC LINK	BHADRAWATI B/B	-	0	481	0.0	11.3	-11.3
53 54	THAN	BARSUR-L.SILERU SOLAPUR-RAICHUR	D/C	0	0 2224	0.0	0.0 34.9	0.0 -34.9
55	765 kV	WARDHA-NIZAMABAD	D/C D/C	0	2074	0.0	30.0	-34.9
56	400 kV	KOLHAPUR-KUDGI	D/C	680	239	2.9	0.0	2.9
57	.50 41	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0
58	220 kV	PONDA-AMBEWADI	S/C	1	0	0.0	0.0	0.0
59	<u> </u>	XELDEM-AMBEWADI	S/C	0	64	1.3	0.0	1.3
					WR-SR	4.3	76.2	-72.0
		TR	ANSNATI	ONAL EXCHA	NGE			
		BHUTAN	T					5.4
60								
60 61 62		NEPAL BANGLADESH						-8.8 -21.5