



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 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
- 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
- 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
- मुख्य महाप्रबंधक, ऊ. पू.क्षे.भा.प्रे.के., डोंगतेिह, लोअर नोंग्रह, लापलंग, शिलोंग - 793006
Chief General Manager, NERLDC, Dongteih, Lower Nongrah, Lapalang, Shillong - 793006, Meghalaya
- 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 21.04.2019.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 21-अप्रैल-2019 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 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

22-Apr-19

A. Maximum Demand

	NR	WR	SR	ER	NER	Total
Demand Met during Evening Peak hrs(MW) (at 1900 hrs: from RLDCs)	43874	46670	39063	16779	2328	148714
Peak Shortage (MW)	519	0	0	0	115	634
Energy Met (MU)	913	1171	941	418	41	3484
Hydro Gen (MU)	200	34	55	43	5	336
Wind Gen (MU)	14	54	33	-----	-----	100
Solar Gen (MU)*	26.99	28	84.66	2.04	0.05	142
Energy Shortage (MU)	13.5	0.0	0.0	0.0	2.5	16.0
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	45045 19:49	51259 11:48	41297 22:33	20519 00:00	2273 19:20	153035 22:33

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	0.037	0.00	0.61	5.64	6.25	75.78	17.97

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	5347	0	108.5	40.5	-1.2	39	0.0	
	Haryana	6041	0	110.9	79.1	0.0	145	0.0	
	Rajasthan	8610	0	190.4	58.5	-2.2	474	0.0	
	Delhi	3843	0	79.2	64.2	-0.7	81	0.0	
	UP	16696	0	320.3	147.2	0.9	620	3.0	
	Uttarakhand	1601	0	35.2	14.2	-0.4	85	0.0	
	HP	1183	0	22.5	5.9	-0.6	90	0.0	
	J&K	1989	497	43.0	26.9	-1.4	153	10.6	
	Chandigarh	174	0	3.3	3.9	-0.7	208	0.0	
	WR	Chhattisgarh	4229	0	95.9	41.2	-4.0	358	0.0
Gujarat		15949	0	363.6	117.1	2.7	530	0.0	
MP		9092	0	201.3	92.7	-0.1	458	0.0	
Maharashtra		20666	0	468.5	144.8	-3.1	423	0.0	
Goa		515	0	0.0	10.1	0.2	36	0.0	
DD		321	0	7.3	7.0	0.3	35	0.0	
DNH		784	0	18.5	18.4	0.1	62	0.0	
Essar steel		5804	0	0.0	5.7	0.0	308	0.0	
SR		Andhra Pradesh	8227	0	178.1	60.3	-0.5	480	0.0
		Telangana	7522	0	164.6	75.6	-2.1	531	0.0
	Karnataka	10401	0	216.0	66.9	0.5	477	0.0	
	Kerala	3634	0	69.5	55.1	1.1	217	0.0	
	Tamil Nadu	12999	0	304.2	172.6	-0.7	536	0.0	
	Pondy	399	0	8.4	8.5	-0.2	41	0.0	
	ER	Bihar	4927	0	92.3	86.6	0.3	250	0.0
DVC		3180	0	68.1	-44.0	-0.8	90	0.0	
Jharkhand		999	0	21.1	11.7	-0.7	100	0.0	
Odisha		3859	0	80.9	26.4	0.7	400	0.0	
West Bengal		8097	0	155.0	35.6	1.7	350	0.0	
Sikkim		80	0	1.0	1.0	0.0	35	0.0	
NER	Arunachal Pradesh	111	2	2.1	2.4	-0.3	28	0.0	
	Assam	1352	52	22.9	19.1	0.6	120	2.0	
	Manipur	173	1	2.2	1.9	0.3	30	0.0	
	Meghalaya	290	0	5.2	3.1	0.2	37	0.4	
	Mizoram	97	2	1.8	1.3	0.3	20	0.0	
	Nagaland	125	3	2.1	1.9	0.2	18	0.0	
	Tripura	272	3	4.3	4.1	0.4	80	0.0	

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	5.3	-9.7	-23.0
Day peak (MW)	416.5	-567.0	-1137.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	150.2	-236.6	146.8	-60.7	-1.2	-1.6
Actual(MU)	144.4	-244.7	153.2	-54.9	-0.1	-2.1
O/D/U/D(MU)	-5.8	-8.1	6.4	5.9	1.1	-0.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	5475	13217	7102	1310	472	27576
State Sector	12145	14309	5920	2385	50	34809
Total	17620	27526	13022	3695	522	62385

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	448	1213	487	459	11	2617
Lignite	15	17	51	0	0	83
Hydro	200	34	55	43	5	336
Nuclear	28	29	37	0	0	94
Gas, Naptha & Diesel	30	47	16	0	29	121
RES (Wind, Solar, Biomass & Others)	69	86	151	2	0	309
Total	790	1425	796	503	45	3560

Share of RES in total generation (%)	8.77	6.05	18.99	0.41	0.11	8.68
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	37.65	10.51	30.48	8.86	11.01	20.77

H. Diversity Factor

All India Demand Diversity Factor	1.048
-----------------------------------	-------

Diversity factor = Sum of regional maximum demands / All India maximum demand

*Source: RLDCs for solar connected to ISTS; SLDCs for embedded solar. Limited visibility of embedded solar data.

INTER-REGIONAL EXCHANGES

Date of Reporting : 22-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/Export of ER (With NR)								
1	765kV	GAYA-VARANASI	D/C	0	512	0.0	6.2	-6.2
2		SASARAM-FATEHPUR	S/C	0	245	0.0	3.5	-3.5
3		GAYA-BALIA	S/C	0	357	0.0	5.8	-5.8
4	HVDC	ALIPURDUAR-AGRA	-	0	0	0.0	0.0	0.0
5		PUSAULI B/B	S/C	0	49	0.0	1.2	-1.2
6	400 kV	PUSAULI-VARANASI	S/C	0	78	0.0	1.4	-1.4
7		PUSAULI -ALLAHABAD	S/C	19	19	0.3	0.0	0.3
8		MUZAFFARPUR-GORAKHPUR	D/C	0	793	0.0	10.4	-10.4
9		PATNA-BALIA	Q/C	0	845	0.0	15.6	-15.6
10		BIHARSHARIFF-BALIA	D/C	0	375	0.0	6.0	-6.0
11		MOTIHARI-GORAKHPUR	D/C	0	283	0.0	4.6	-4.6
12		BIHARSHARIFF-VARANASI	D/C	5	0	0.0	0.0	0.0
13	220 kV	PUSAULI-SAHUPURI	S/C	0	166	0.0	3.2	-3.2
14	132 kV	SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0
15		GARWAH-RIHAND	S/C	30	0	0.6	0.0	0.6
16		KARMANASA-SAHUPURI	S/C	0	0	0.0	0.0	0.0
17		KARMANASA-CHANDAULI	S/C	0	0	0.0	0.0	0.0
ER-NR						0.9	57.8	-56.9
Import/Export of ER (With WR)								
18	765 kV	JHARSUGUDA-DHARAMJAIGARH S/C	D/C	1950	0	39.1	0.0	39.1
19		NEW RANCHI-DHARAMJAIGARH	D/C	416	71	4.0	0.0	4.0
20		JHARSUGUDA-DURG	D/C	199	13	2.3	0.0	2.3
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	299	61	2.1	0.0	2.1
22		RANCHI-SIPAT	D/C	187	5	2.1	0.0	2.1
23	220 kV	BUDHIPADAR-RAIGARH	S/C	0	119	0.0	2.0	-2.0
24		BUDHIPADAR-KORBA	D/C	158	0	1.5	0.0	1.5
ER-WR						51.2	2.0	49.2
Import/Export of ER (With SR)								
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	1800.0	0.0	36.0	-36.0
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	694.0	0.0	16.1	-16.1
27	LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	2457.0	0.0	50.1	-50.1
28	400 kV	TALCHER-I/C	D/C	0.0	944.0	0.0	10.0	-10.0
29	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0
ER-SR						0.0	102.2	-102.2
Import/Export of ER (With NER)								
30	400 kV	BINAGURI-BONGAIGAON	D/C	380	5	5.1	0.0	5
31		ALIPURDUAR-BONGAIGAON	D/C	499	0	7.3	0.0	7
32	220 kV	ALIPURDUAR-SALAKATI	D/C	86	0	1.3	0.0	1
ER-NER						13.6	0.0	13.6
Import/Export of NER (With NR)								
33	HVDC	BISWANATH CHARIALI-AGRA	-	559	0	13.7	0.0	13.7
NER-NR						13.7	0.0	13.7
Import/Export of WR (With NR)								
34	HVDC	CHAMPA-KURUKSHETRA	D/C	0	501	0.0	11.7	-11.7
35		V'CHAL B/B	D/C	243	0	6.1	0.0	6.1
36		APL -MHG	D/C	0	1359	0.0	33.9	-33.9
37	765 kV	GWALIOR-AGRA	D/C	0	1977	0.0	35.8	-35.8
38		PHAGI-GWALIOR	D/C	0	982	0.0	16.2	-16.2
39		JABALPUR-ORAI	D/C	0	613	0.0	20.2	-20.2
40		GWALIOR-ORAI	S/C	477	0	10.0	0.0	10.0
41		SATNA-ORAI	S/C	0	1246	0.0	25.9	-25.9
42		CHITORGARH-BANASKANTHA	D/C	592	132	3.6	0.0	3.6
43		ZERDA-KANKROLI	S/C	268	0	3.8	0.0	3.8
44	400 kV	ZERDA -BHINMAL	S/C	163	67	1.5	0.0	1.5
45		V'CHAL -RIHAND	S/C	969	0	18.7	0.0	18.7
46	220 kV	RAPP-SHUJALPUR	D/C	118	206	0	0	0
47		BADOD-KOTA	S/C	42	54	0.1	0.3	-0.1
48		BADOD-MORAK	S/C	0	71	0.0	1.0	-1.0
49	132kV	MEHGAON-AURAIYA	S/C	45	0	0.5	0.0	0.5
50		MALANPUR-AURAIYA	S/C	15	21	0.1	0.2	-0.1
51	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
WR-NR						44.3	145.4	-101.1
Import/Export of WR (With SR)								
52	HVDC	BHADRAWATI B/B	-	0	481	0.0	11.4	-11.4
53	LINK	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0
54	765 kV	SOLAPUR-RAICHUR	D/C	0	2216	0.0	40.8	-40.8
55		WARDHA-NIZAMABAD	D/C	0	2216	0.0	44.2	-44.2
56	400 kV	KOLHAPUR-KUDGI	D/C	414	312	1.3	0.0	1.3
57	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0
58		PONDA-AMBEWADI	S/C	1	0	0.0	0.0	0.0
59		XELDEM-AMBEWADI	S/C	0	61	1.2	0.0	1.2
WR-SR						2.6	96.4	-93.8
TRANSNATIONAL EXCHANGE								
60		BHUTAN						5.3
61		NEPAL						-9.7
62		BANGLADESH						-23.0