



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: 21<sup>st</sup> May 2019

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. मुख्य महाप्रबंधक, ऊ. पू.क्षे.भा.प्रे.के., डोंगतिह, 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 20.05.2019.**

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 20-मई-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 20<sup>th</sup> May 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 21-May-19

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)	51707	51951	43436	22032	2591	171717
Peak Shortage (MW)	1305	0	66	0	74	1445
Energy Met (MU)	1165	1244	1034	484	44	3971
Hydro Gen (MU)	290	63	74	72	15	515
Wind Gen (MU)	10	66	42	-----	-----	118
Solar Gen (MU)*	28.72	25.30	85.55	2.32	0.04	142
Energy Shortage (MU)	15.3	0.0	0.0	0.0	1.2	16.5
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	53878 22:34	55852 14:55	46624 14:57	23454 22:46	2612 18:48	176868 22:43

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	0.111	0.06	6.52	25.56	32.13	64.35	3.52

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	8046	0	146.2	79.7	-2.3	58	0.0
	Haryana	7860	0	158.0	125.9	-0.3	111	0.0
	Rajasthan	10412	0	226.8	63.8	0.8	292	0.0
	Delhi	5165	0	102.8	90.6	-0.5	161	0.0
	UP	19612	740	412.7	191.7	1.3	550	5.2
	Uttarakhand	2014	0	44.0	19.0	0.8	148	0.0
	HP	1337	9	27.9	5.2	0.4	104	0.1
	J&K	2260	565	41.8	22.0	-0.5	325	10.0
WR	Chandigarh	262	0	5.1	5.9	-0.7	2	0.0
	Chhattisgarh	4067	0	92.2	43.2	-2.3	330	0.0
	Gujarat	17741	0	382.1	73.5	5.0	494	0.0
	MP	9517	0	219.1	103.0	0.0	505	0.0
	Maharashtra	23119	0	507.0	107.5	2.3	610	0.0
	Goa	541	0	11.8	10.5	0.7	162	0.0
	DD	324	0	7.2	6.8	0.4	44	0.0
	DNH	773	0	17.7	17.9	-0.3	63	0.0
SR	Essar steel	318	0	6.7	6.3	0.4	271	0.0
	Andhra Pradesh	9485	0	193.1	59.9	0.8	593	0.0
	Telangana	8060	0	172.2	54.1	0.7	469	0.0
	Karnataka	11430	0	225.8	69.3	-1.4	468	0.0
	Kerala	4125	0	85.2	59.9	1.1	227	0.0
	Tamil Nadu	15690	0	348.9	187.0	0.9	558	0.0
	Pondy	418	0	8.8	8.9	-0.1	43	0.0
	ER	Bihar	5424	0	106.2	103.3	0.2	50
DVC		3301	0	70.1	-47.1	0.6	250	0.0
Jharkhand		1319	0	28.4	23.3	-0.6	90	0.0
Odisha		4791	0	93.9	33.4	-0.9	410	0.0
West Bengal		9175	0	184.1	67.1	-2.7	100	0.0
Sikkim		89	0	1.1	1.5	-0.4	30	0.0
NER	Arunachal Pradesh	104	2	2.0	2.4	-0.4	12	0.0
	Assam	1621	23	26.0	21.4	0.7	134	0.8
	Manipur	176	3	2.3	2.2	0.1	44	0.0
	Meghalaya	293	0	5.2	3.1	0.3	65	0.4
	Mizoram	90	1	1.8	1.4	0.3	19	0.0
	Nagaland	107	2	2.1	2.1	-0.1	31	0.0
	Tripura	293	5	4.4	4.6	-0.1	59	0.0

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	6.2	-11.0	-26.2
Day peak (MW)	598.7	-599.0	-1126.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	208.2	-267.4	97.0	-28.4	-9.6	-0.2
Actual(MU)	199.6	-267.1	106.7	-29.5	-13.1	-3.4
O/D/U/D(MU)	-8.7	0.3	9.7	-1.1	-3.5	-3.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	4157	14925	6812	1620	85	27599
State Sector	9370	10847	3620	4005	50	27892
Total	13527	25772	10432	5625	135	55491

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	568	1255	584	484	17	2908
Lignite	24	15	52	0	0	91
Hydro	290	63	74	72	15	514
Nuclear	27	31	55	0	0	113
Gas, Naptha & Diesel	32	63	16	0	30	141
RES (Wind, Solar, Biomass & Others)	50	97	158	2	0	307
Total	992	1525	938	558	62	4075

Share of RES in total generation (%)	5.01	6.38	16.84	0.42	0.06	7.54
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	37.01	12.51	30.58	13.40	24.83	22.94

H. Diversity Factor

All India Demand Diversity Factor	1.031
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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 : 21-May-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)
<b>Import/Export of ER (With NR)</b>								
1	765kV	GAYA-VARANASI	D/C	134	177	0.0	0.0	0.0
2		SASARAM-FATEHPUR	S/C	117	133	0.4	0.0	0.4
3		GAYA-BALIA	S/C	0	200	0.0	3.0	-3.0
4	HVDC	ALIPURDUAR-AGRA	-	0	502	0.0	12.1	-12.1
5		PUSAULI B/B	S/C	0	49	0.0	1.4	-1.4
6	400 kV	PUSAULI-VARANASI	S/C	0	89	0.0	1.6	-1.6
7		PUSAULI -ALLAHABAD	S/C	31	24	0.4	0.0	0.4
8		MUZAFFARPUR-GORAKHPUR	D/C	0	672	0.0	9.1	-9.1
9		PATNA-BALIA	Q/C	0	624	0.0	9.9	-9.9
10		BIHARSHARIFF-BALIA	D/C	0	277	0.0	4.3	-4.3
11		MOTIHARI-GORAKHPUR	D/C	0	304	0.0	6.0	-6.0
12		BIHARSHARIFF-VARANASI	D/C	97	148	0.0	0.5	-0.5
13	220 kV	PUSAULI-SAHUPURI	S/C	0	211	0.0	4.2	-4.2
14	132 kV	SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0
15		GARWAH-RIHAND	S/C	30	0	0.5	0.0	0.5
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
<b>ER-NR</b>						<b>1.4</b>	<b>52.1</b>	<b>-50.7</b>
<b>Import/Export of ER (With WR)</b>								
18	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1702	0	30.2	0.0	30.2
19		NEW RANCHI-DHARAMJAIGARH	D/C	911	0	14.7	0.0	14.7
20		JHARSUGUDA-DURG	D/C	173	39	2.2	0.0	2.2
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	354	58	3.9	0.0	3.9
22		RANCHI-SIPAT	D/C	318	0	5.0	0.0	5.0
23	220 kV	BUDHIPADAR-RAIGARH	S/C	0	86	0.0	1.0	-1.0
24		BUDHIPADAR-KORBA	D/C	139	0	2.2	0.0	2.2
<b>ER-WR</b>						<b>58.2</b>	<b>1.0</b>	<b>57.2</b>
<b>Import/Export of ER (With SR)</b>								
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	1603.0	0.0	26.9	-26.9
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	735.0	0.0	14.9	-14.9
27	LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	1785.0	0.0	40.5	-40.5
28	400 kV	TALCHER-I/C	D/C	309.0	205.0	0.1	0.0	0.1
29	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0
<b>ER-SR</b>						<b>0.0</b>	<b>82.4</b>	<b>-82.4</b>
<b>Import/Export of ER (With NER)</b>								
30	400 kV	BINAGURI-BONGAIGAON	D/C	110	243	0.0	1.6	-2
31		ALIPURDUAR-BONGAIGAON	D/C	402	0	5.5	0.0	5
32	220 kV	ALIPURDUAR-SALAKATI	D/C	48	37	0.2	0.0	0
<b>ER-NER</b>						<b>5.6</b>	<b>1.6</b>	<b>4.0</b>
<b>Import/Export of NER (With NR)</b>								
33	HVDC	BISWANATH CHARIALI-AGRA	-	0	403	0.0	8.7	-8.7
<b>NER-NR</b>						<b>0.0</b>	<b>8.7</b>	<b>-8.7</b>
<b>Import/Export of WR (With NR)</b>								
34	HVDC	CHAMPA-KURUKSHETRA	D/C	0	1004	0.0	23.8	-23.8
35		V'CHAL B/B	D/C	248	0	6.2	0.0	6.2
36		APL -MHG	D/C	0	1358	0.0	30.2	-30.2
37	765 kV	GWALIOR-AGRA	D/C	0	2158	0.0	41.7	-41.7
38		PHAGI-GWALIOR	D/C	0	945	0.0	16.0	-16.0
39		JABALPUR-ORAI	D/C	0	736	0.0	28.3	-28.3
40		GWALIOR-ORAI	S/C	376	0	7.3	0.0	7.3
41		SATNA-ORAI	S/C	0	1342	0.0	27.1	-27.1
42		CHITTORGARH-BANASKANTHA	D/C	0	457	0.0	6.7	6.7
43		ZERDA-KANKROLI	S/C	95	67	0.3	0.0	0.3
44	400 kV	ZERDA -BHINMAL	S/C	38	170	0.0	2.0	-2.0
45		V'CHAL -RIHAND	S/C	971	0	22.5	0.0	22.5
46	220 kV	RAPP-SHUJALPUR	D/C	118	193	0	0	0
47		BHANPURA-KOTA	S/C	42	32	0.5	0.1	0.5
48		BHANPURA-MORAK	S/C	13	70	0.0	0.6	-0.6
49		MEHGAON-AURAIYA	S/C	59	8	0.4	0.0	0.4
50	132kV	MALANPUR-AURAIYA	S/C	27	34	0.1	0.4	-0.3
51		GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0
<b>WR-NR</b>						<b>37.3</b>	<b>176.9</b>	<b>-126.3</b>
<b>Import/Export of WR (With SR)</b>								
52	HVDC	BHADRAWATI B/B	-	0	1002	0.0	21.9	-21.9
53	LINK	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0
54	765 kV	SOLAPUR-RAICHUR	D/C	177	1989	0.0	25.2	-25.2
55		WARDHA-NIZAMABAD	D/C	57	1674	0.0	25.3	-25.3
56	400 kV	KOLHAPUR-KUDGI	D/C	467	192	3.0	0.0	3.0
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	54	1.0	0.0	1.0
<b>WR-SR</b>						<b>4.0</b>	<b>72.5</b>	<b>-68.4</b>
<b>TRANSNATIONAL EXCHANGE</b>								
60		BHUTAN						<b>6.2</b>
61		NEPAL						<b>-11.0</b>
62		BANGLADESH						<b>-26.2</b>