



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: 29<sup>th</sup> Jun 2020

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
- कार्यकारी निदेशक, ऊ.पू.क्षे.भा.प्रे.के., डोंगतिह, लोअर नोंग्रह , लापलंग, शिलोंग - 793006  
Executive Director, 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 28.06.2020.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 28-जून-2020 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रांभांप्रेंके 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 28<sup>th</sup> Jun 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: 29-Jun-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)	59188	40910	34713	19372	2485	156668
Peak Shortage (MW)	368	0	0	0	6	374
Energy Met (MU)	1376	994	826	397	44	3637
Hydro Gen (MU)	358	61	72	138	29	659
Wind Gen (MU)	60	67	90	-	-	218
Solar Gen (MU)*	37.88	23.70	65.04	4.91	0.02	132
Energy Shortage (MU)	9.4	0.0	0.0	0.0	0.5	9.9
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	63133	42567	38129	19438	2532	160854
Time Of Maximum Demand Met (From NLDC SCADA)	22:17	15:25	10:42	20:07	19:13	22:17

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	0.028	0.00	0.00	3.14	3.14	75.00	21.86

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	12427	0	278.9	146.9	-2.4	59	0.0
	Haryana	9642	0	209.5	141.1	1.5	249	0.0
	Rajasthan	11520	0	256.6	74.0	0.9	493	0.0
	Delhi	6086	0	112.5	99.7	1.1	501	0.0
	UP	24184	0	405.7	198.3	9.4	1048	0.0
	Uttarakhand	1765	0	40.1	17.4	0.3	103	0.0
	HP	1252	0	26.6	-2.1	-0.4	128	0.0
	J&K(UT) & Ladakh(UT)	2059	515	39.5	18.1	-1.6	277	9.4
	Chandigarh	327	0	6.1	5.6	0.5	65	0.0
	Chhattisgarh	3516	0	86.1	29.1	0.1	193	0.0
WR	Gujarat	14295	0	318.3	88.7	3.9	442	0.0
	MP	7961	0	173.9	96.5	-1.2	169	0.0
	Maharashtra	16156	0	371.0	185.8	-2.2	630	0.0
	Goa	387	0	8.5	7.8	0.2	48	0.0
	DD	221	0	4.9	4.8	0.1	26	0.0
	DNH	517	0	12.1	13.0	-0.9	36	0.0
	AMNSIL	847	0	18.8	8.7	-0.6	225	0.0
	Andhra Pradesh	7842	0	168.7	91.2	-1.2	644	0.0
	Telangana	7611	0	162.6	78.5	0.1	421	0.0
	Karnataka	8284	0	163.9	64.3	0.9	571	0.0
SR	Kerala	2896	0	58.6	41.8	0.4	241	0.0
	Tamil Nadu	11816	0	265.1	114.6	-3.0	533	0.0
	Puducherry	338	0	7.2	7.5	-0.3	33	0.0
	Bihar	5187	0	92.9	87.6	-0.1	554	0.0
	DVC	2800	0	61.4	-40.3	1.7	536	0.0
	Jharkhand	1446	0	25.1	18.9	-2.6	147	0.0
	Odisha	3730	0	79.6	-1.1	0.2	357	0.0
	West Bengal	6920	0	137.4	42.1	1.1	464	0.0
	Sikkim	74	0	0.9	1.1	-0.2	17	0.0
	Arunachal Pradesh	107	1	2.1	1.7	0.4	23	0.0
NER	Assam	1562	30	25.4	19.5	1.1	120	0.5
	Manipur	186	1	2.6	2.4	0.3	40	0.0
	Meghalaya	296	0	5.5	-0.9	-0.1	49	0.0
	Mizoram	94	1	1.7	1.2	0.3	14	0.0
	Nagaland	120	2	2.4	2.1	0.0	11	0.0
	Tripura	265	1	4.2	3.6	0.4	25	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	51.0	-0.9	-25.2
Day Peak (MW)	2186.0	-147.5	-1075.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	303.3	-280.8	115.4	-133.8	-4.0	0.0
Actual(MU)	298.8	-288.4	121.3	-133.6	-2.8	-4.5
O/D/U/D(MU)	-4.4	-7.5	5.9	0.3	1.3	-4.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	5672	13134	10072	2320	1296	32493
State Sector	7530	24379	13243	4842	47	50041
Total	13202	37513	23315	7162	1343	82534

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	531	999	342	426	3	2301
Lignite	26	15	35	0	0	77
Hydro	358	61	72	138	29	659
Nuclear	29	36	47	0	0	112
Gas, Naptha & Diesel	31	75	19	0	18	143
RES (Wind, Solar, Biomass & Others)	119	108	199	5	0	430
Total	1095	1293	715	569	50	3722

Share of RES in total generation (%)	10.87	8.32	27.78	0.87	0.04	11.56
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	46.27	15.81	44.46	25.18	57.21	32.27

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.031
Based on State Max Demands	1.086

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: 29-Jun-2020

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	HVDC	ALIPURDUAR-AGRA	-	0	1200	0.0	24.5	-24.5	
2	HVDC	PUSAULI B/B	S/C	0	398	0.0	10.0	-10.0	
3	765 kV	GAYA-VARANASI	D/C	0	661	0.0	9.4	-9.4	
4	765 kV	SASARAM-FATEHPUR	S/C	97	125	0.0	0.0	0.0	
5	765 kV	GAYA-BALIA	S/C	0	485	0.0	7.3	-7.3	
6	400 kV	PUSAULI-VARANASI	S/C	0	269	0.0	6.2	-6.2	
7	400 kV	PUSAULI-ALLAHABAD	S/C	0	180	0.0	3.6	-3.6	
8	400 kV	MUZAFFARPUR-GORAKHPUR	D/C	0	750	0.0	13.8	-13.8	
9	400 kV	PATNA-BALIA	O/C	0	928	0.0	15.9	-15.9	
10	400 kV	BIHARSHARIFF-BALIA	D/C	0	335	0.0	6.0	-6.0	
11	400 kV	MOTHARI-GORAKHPUR	D/C	0	326	0.0	4.7	-4.7	
12	400 kV	BIHARSHARIFF-VARANASI	D/C	5	199	0.0	2.0	-2.0	
13	220 kV	PUSAULI-SAHUPURI	S/C	0	90	0.0	1.4	-1.4	
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	0.4	0.0	0.4	
16	132 kV	KARMANASA-SAHUPURI	S/C	0	0	0.0	0.0	0.0	
17	132 kV	KARMANASA-CHANDALI	S/C	0	0	0.0	0.0	0.0	
						ER-NR	0.4	104.7	-104.3
<b>Import/Export of ER (With WR)</b>									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1344	0	20.9	0.0	20.9	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	783	68	10.4	0.0	10.4	
3	765 kV	JHARSUGUDA-DURG	D/C	43	163	0.0	0.8	-0.8	
4	400 kV	JHARSUGUDA-RAIGARH	Q/C	181	98	1.5	0.0	1.5	
5	400 kV	RANCHI-SIPAT	D/C	298	0	4.7	0.0	4.7	
6	220 kV	BUDHIPADAR-RAIGARH	S/C	0	116	0.0	1.4	-1.4	
7	220 kV	BUDHIPADAR-KORBA	D/C	168	0	2.7	0.0	2.7	
						ER-WR	40.2	2.2	38.0
<b>Import/Export of ER (With SR)</b>									
1	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0	499	0.0	8.6	-8.6	
2	HVDC	TALCHER-KOLAR BIPOLE	D/C	0	1873	0.0	41.8	-41.8	
3	765 kV	ANGUL-SRIKAKULAM	D/C	0	2602	0.0	47.7	-47.7	
4	400 kV	TALCHER-I/C	D/C	393	996	0.0	7.1	-7.1	
5	220 kV	BALIMELA-UPPER-SILERRU	S/C	1	0	0.0	0.0	0.0	
						ER-SR	0.0	98.1	-98.1
<b>Import/Export of ER (With NER)</b>									
1	400 kV	BINAGURI-BONGAIGAOON	D/C	0	538	0.0	5.0	-5.0	
2	400 kV	ALIPURDUAR-BONGAIGAOON	D/C	96	703	0.0	5.0	-5.0	
3	220 kV	ALIPURDUAR-SALAKATI	D/C	0	158	0.0	1.6	-1.6	
						ER-NER	0.0	11.6	-11.6
<b>Import/Export of NER (With NR)</b>									
1	HVDC	BISWANATH CHARIALI-AGRA	-	0	704	0.0	17.2	-17.2	
						NER-NR	0.0	17.2	-17.2
<b>Import/Export of WR (With NR)</b>									
1	HVDC	CHAMPA-KURUKSHETRA	D/C	0	1001	0.0	52.9	-52.9	
2	HVDC	V'CHAL B/B	D/C	452	101	10.2	0.0	10.2	
3	HVDC	APL -MHG	D/C	0	1916	0.0	40.5	-40.5	
4	765 kV	GWALIOR-AGRA	D/C	0	2580	0.0	45.5	-45.5	
5	765 kV	PHAGL-GWALIOR	D/C	0	1163	0.0	21.4	-21.4	
6	765 kV	JABALPUR-ORAI	D/C	0	906	0.0	29.9	-29.9	
7	765 kV	GWALIOR-ORAI	S/C	386	0	7.3	0.0	7.3	
8	765 kV	SATNA-ORAI	S/C	0	1529	0.0	31.5	-31.5	
9	765 kV	CHITORGARH-BANASKANTHA	D/C	0	1097	0.0	11.7	-11.7	
10	400 kV	ZERDA-KANKROLI	S/C	136	119	0.6	0.0	0.6	
11	400 kV	ZERDA -BHINMAL	S/C	344	0	5.4	0.0	5.4	
12	400 kV	V'CHAL -RIHAND	S/C	975	0	22.3	0.0	22.3	
13	400 kV	RAPP-SHUALPUR	D/C	30	336	0.0	2.1	-2.1	
14	220 kV	BHANPURA-RANPUR	S/C	11	0	0.0	2.1	-2.1	
15	220 kV	BHANPURA-MORAK	S/C	0	120	0.0	2.2	-2.2	
16	220 kV	MEHGAON-AURAIYA	S/C	77	28	0.3	0.1	0.2	
17	220 kV	MALANPUR-AURAIYA	S/C	54	15	0.9	0.0	0.9	
18	132 kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
19	132 kV	RAJGHAT-LALITPUR	D/C	0	0	0.0	0.0	0.0	
						WR-NR	47.1	239.6	-192.5
<b>Import/Export of WR (With SR)</b>									
1	HVDC	BHADRAWATI B/B	-	0	1002	0.0	17.9	-17.9	
2	HVDC	BARSUR-L SILERU	-	0	0	0.0	0.0	0.0	
3	HVDC	HVDC-RAIGARH-PUGALUR	D/C	0	0	0.4	0.0	0.4	
4	765 kV	SOLAPUR-RAICHUR	D/C	328	2057	0.3	20.5	-20.3	
5	765 kV	WARDHA-NIZAMABAD	D/C	0	2441	0.0	31.5	-31.5	
6	400 kV	KOLHAPUR-KUDGI	D/C	820	0	11.5	0.0	11.5	
7	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0	
8	220 kV	PONDA-AMBEWADI	S/C	0	0	0.0	0.0	0.0	
9	220 kV	XELDEM-AMBEWADI	S/C	0	82	1.6	0.0	1.6	
						WR-SR	13.8	69.9	-56.1
<b>INTERNATIONAL EXCHANGES</b>									
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	298	287	264	6.3			
	ER	MANGDECHHU (4 x 180) ALIPURDUAR RECEIPT	744	740	730	17.5			
	ER	TALA ( 6 * 170 ) BINAGURI RECEIPT	1028	1016	1034	24.8			
	NER	132KV-SALAKATI - GELEPHU	53	0	46	1.1			
NEPAL	NER	132KV-RANGIA - DEOTHANG	63	0	51	1.2			
	NR	132KV-Tanakpur(NH) - Mahendranagar(PG)	-18	0	-6	-0.2			
	ER	132KV-BIHAR - NEPAL	-2	0	-1	0.0			
BANGLADESH	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-128	-2	-30	-0.7			
	ER	Bheramara HVDC(Bangladesh)	-956	-946	-948	-22.8			
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	60	0	-50	-1.2			
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	59	0	-50	-1.2			