



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: 01<sup>th</sup> Jul 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 30.06.2020.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 30-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 30<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: 01-Jul-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)	60547	41820	36668	20999	2762	162796
Peak Shortage (MW)	1266	0	0	0	25	1291
Energy Met (MU)	1407	995	844	444	50	3740
Hydro Gen (MU)	356	62	73	146	30	667
Wind Gen (MU)	8	22	107	-	-	138
Solar Gen (MU)*	40.66	20.10	65.46	4.73	0.04	131
Energy Shortage (MU)	15.2	0.0	0.0	0.0	1.0	16.2
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	64373	43633	38712	21319	2763	164641
Time Of Maximum Demand Met (From NLDC SCADA)	23:46	11:06	12:20	21:42	19:56	22:06

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	0.027	0.00	0.19	5.79	5.97	84.02	10.01

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	12752	0	279.9	143.6	-1.0	97	0.0
	Haryana	9913	0	218.0	155.6	-1.2	217	0.1
	Rajasthan	12320	0	261.2	101.9	6.7	727	0.0
	Delhi	5888	0	116.0	96.9	-1.3	310	0.0
	UP	20875	610	412.1	189.0	3.0	761	4.0
	Uttarakhand	1892	0	41.0	19.7	1.3	159	0.8
	HP	1400	0	28.9	-1.8	-1.0	201	0.0
	J&K(UT) & Ladakh(UT)	2267	567	43.7	19.5	1.1	226	10.4
WR	Chandigarh	342	0	6.5	6.8	-0.3	22	0.0
	Chhattisgarh	3564	0	78.7	40.8	-5.8	358	0.0
	Gujarat	14255	0	318.5	99.3	5.8	828	0.0
	MP	8352	0	180.7	107.5	-1.5	398	0.0
	Maharashtra	16597	0	371.3	167.3	-3.8	467	0.0
	Goa	430	0	9.1	8.8	-0.1	66	0.0
	DD	247	0	5.3	5.2	0.1	32	0.0
	DNH	587	0	13.1	13.2	-0.1	34	0.0
SR	AMNSIL	855	0	18.4	7.8	-0.2	241	0.0
	Andhra Pradesh	7472	0	158.1	59.0	0.6	1106	0.0
	Telangana	8320	0	162.9	74.0	0.2	580	0.0
	Karnataka	8596	0	170.4	67.3	-1.7	721	0.0
	Kerala	3145	0	64.4	42.9	0.1	127	0.0
	Tamil Nadu	12880	0	280.7	121.6	-3.8	917	0.0
ER	Puducherry	351	0	7.5	7.9	-0.4	21	0.0
	Bihar	5428	0	103.4	95.3	1.9	588	0.0
	DVC	2827	0	62.3	-43.9	0.2	349	0.0
	Jharkhand	1424	0	27.1	18.4	-0.5	141	0.0
	Odisha	4025	0	84.5	-0.6	-0.2	331	0.0
	West Bengal	7963	0	165.7	50.3	2.8	433	0.0
NER	Sikkim	95	0	1.3	1.4	-0.1	21	0.0
	Arunachal Pradesh	105	2	1.8	1.9	-0.1	18	0.1
	Assam	1765	64	31.4	25.5	1.2	115	0.6
	Manipur	183	3	2.5	2.3	0.2	43	0.1
	Meghalaya	281	1	5.1	-1.9	0.4	79	0.0
	Mizoram	90	2	1.6	1.1	0.2	16	0.1
	Nagaland	133	2	2.1	2.1	-0.2	40	0.1
	Tripura	279	11	5.4	3.6	0.9	93	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	51.7	-1.3	-25.1
Day Peak (MW)	2257.0	-155.0	-1072.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	326.7	-284.4	91.3	-133.5	-0.2	0.0
Actual(MU)	329.6	-285.4	79.3	-128.2	0.9	-3.7
OD/UD(MU)	2.9	-1.0	-12.1	5.3	1.1	-3.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	5333	13354	10592	2820	740	32839
State Sector	7519	24983	13323	4382	11	50218
Total	12852	38337	23915	7202	751	83057

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	584	1051	391	465	9	2500
Lignite	28	14	32	0	0	74
Hydro	356	62	73	146	30	667
Nuclear	30	34	47	0	0	111
Gas, Naptha & Diesel	38	92	17	0	15	161
RES (Wind, Solar, Biomass & Others)	69	48	215	5	0	337
Total	1104	1301	775	616	54	3851
Share of RES in total generation (%)	6.27	3.71	27.75	0.77	0.07	8.76
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	41.18	11.09	43.19	24.46	56.05	28.95

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.037
Based on State Max Demands	1.081

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: 01-Jul-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	1003	0.0	24.6	-24.6	
2	HVDC	PUSAULI B/B	S/C	0	398	0.0	9.7	-9.7	
3	765 kV	GAYA-VARANASI	D/C	0	675	0.0	11.2	-11.2	
4	765 kV	SASARAM-FATEHPUR	S/C	218	61	1.9	0.0	1.9	
5	765 kV	GAYA-BALIA	S/C	0	485	0.0	8.2	-8.2	
6	400 kV	PUSAULI-VARANASI	S/C	0	279	0.0	5.7	-5.7	
7	400 kV	PUSAULI-ALLAHABAD	S/C	0	167	0.0	3.2	-3.2	
8	400 kV	MUZAFFARPUR-GORAKHPUR	D/C	0	731	0.0	13.3	-13.3	
9	400 kV	PATNA-BALIA	O/C	0	898	0.0	16.0	-16.0	
10	400 kV	BIHARSHARIFF-BALIA	D/C	0	319	0.0	5.2	-5.2	
11	400 kV	MOTHARI-GORAKHPUR	D/C	0	319	0.0	5.4	-5.4	
12	400 kV	BIHARSHARIFF-VARANASI	D/C	47	144	0.0	1.4	-1.4	
13	220 kV	PUSAULI-SAHUPURI	S/C	0	92	0.0	1.7	-1.7	
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	2.3	105.4	-103.1
<b>Import/Export of ER (With WR)</b>									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	732	21	7.9	0.0	7.9	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	874	15	11.9	0.0	11.9	
3	765 kV	JHARSUGUDA-DURG	D/C	132	180	0.0	1.2	-1.2	
4	400 kV	JHARSUGUDA-RAIGARH	Q/C	18	235	0.0	2.4	-2.4	
5	400 kV	RANCHI-SIPAT	D/C	297	9	4.2	0.0	4.2	
6	220 kV	BUDHIPADAR-RAIGARH	S/C	0	112	0.0	1.7	-1.7	
7	220 kV	BUDHIPADAR-KORBA	D/C	78	0	1.0	0.0	1.0	
						ER-WR	25.1	5.3	19.8
<b>Import/Export of ER (With SR)</b>									
1	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0	383	0.0	7.5	-7.5	
2	HVDC	TALCHER-KOLAR BIPOLE	D/C	0	1456	0.0	33.2	-33.2	
3	765 kV	ANGUL-SRIKAKULAM	D/C	0	2309	0.0	40.1	-40.1	
4	400 kV	TALCHER-I/C	D/C	867	0	10.9	0.0	10.9	
5	220 kV	BALIMELA-UPPER-SILERRU	S/C	1	0	0.0	0.0	0.0	
						ER-SR	0.0	80.8	-80.8
<b>Import/Export of ER (With NER)</b>									
1	400 kV	BINAGURI-BONGAIGAOON	D/C	0	518	0.0	5.9	-5.9	
2	400 kV	ALIPURDUAR-BONGAIGAOON	D/C	0	664	0.0	7.5	-7.5	
3	220 kV	ALIPURDUAR-SALAKATI	D/C	0	151	0.0	2.1	-2.1	
						ER-NER	0.0	15.5	-15.5
<b>Import/Export of NER (With NR)</b>									
1	HVDC	BISWANATH CHARIALI-AGRA	-	0	704	0.0	16.1	-16.1	
						NER-NR	0.0	16.1	-16.1
<b>Import/Export of WR (With NR)</b>									
1	HVDC	CHAMPA-KURUKSHETRA	D/C	0	1502	0.0	57.8	-57.8	
2	HVDC	V'CHAL B/B	D/C	0	102	0.0	2.4	-2.4	
3	HVDC	APL -MHG	D/C	0	1915	0.0	39.0	-39.0	
4	765 kV	GWALIOR-AGRA	D/C	0	2588	0.0	46.5	-46.5	
5	765 kV	PHAGI-GWALIOR	D/C	0	1399	0.0	25.8	-25.8	
6	765 kV	JABALPUR-ORAI	D/C	0	1056	0.0	34.3	-34.3	
7	765 kV	GWALIOR-ORAI	S/C	581	0	10.7	0.0	10.7	
8	765 kV	SATNA-ORAI	S/C	0	1577	0.0	33.1	-33.1	
9	765 kV	CHITORGARH-BANASKANTHA	D/C	71	949	0.1	7.4	-7.4	
10	400 kV	ZERDA-KANKROLI	S/C	88	131	0.3	0.0	0.3	
11	400 kV	ZERDA -BHINMAL	S/C	112	214	0.0	1.3	-1.3	
12	400 kV	V'CHAL -RIHAND	S/C	961	0	22.3	0.0	22.3	
13	400 kV	RAPP-SHUALPUR	D/C	0	576	0.0	6.6	-6.6	
14	220 kV	BHANPURA-BANPUR	S/C	11	0	0.0	1.4	-1.4	
15	220 kV	BHANPURA-MORAK	S/C	0	105	0.0	1.4	-1.4	
16	220 kV	MEHGAON-AURAIYA	S/C	74	0	0.4	0.1	0.3	
17	220 kV	MALANPUR-AURAIYA	S/C	47	22	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	34.6	257.2	-222.5
<b>Import/Export of WR (With SR)</b>									
1	HVDC	BHADRAWATI B/B	-	0	820	0.0	16.2	-16.2	
2	HVDC	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0	
3	HVDC	HVDC-RAIGARH-PUGALUR	D/C	0	0	0.0	0.0	0.0	
4	765 kV	SOLAPUR-RAICHUR	D/C	698	1734	1.7	14.6	-12.9	
5	765 kV	WARDHA-NIZAMABAD	D/C	0	2121	0.0	27.4	-27.4	
6	400 kV	KOLHAPUR-KUDGI	D/C	962	0	12.4	0.0	12.4	
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	88	1.6	0.0	1.6	
						WR-SR	15.7	58.2	-42.5
<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	279	273	250	6.0			
	ER	MANGDECHHU (4 x 180) ALIPURDUAR RECEIPT	747	744	764	18.3			
	ER	TALA ( 6 * 170 ) BINAGURI RECEIPT	1119	1110	1045	25.1			
	NER	132KV-SALAKATI - GELEPHU	50	0	43	1.0			
NEPAL	NER	132KV-RANGIA - DEOTHANG	61	0	55	1.3			
	NR	132KV-Tanakpur(NH) - Mahendranagar(PG)	-21	0	-7	-0.2			
	ER	132KV-BIHAR - NEPAL	-2	-1	-1	0.0			
BANGLADESH	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-132	-4	-45	-1.1			
	ER	Bheramara HVDC(Bangladesh)	-941	-940	-939	-22.5			
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	65	0	-53	-1.3			

	NER	132KV-SURAJMANI NAGAR - COMILLA (BANGLADESH)-2	66	0	-53	-1.3
--	-----	---	----	---	-----	------