



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: 21st Jun 2020

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. कार्यकारी निदेशक, ऊ.पू.क्षे.भा.प्रे.के., डोंगतिह, लोअर नोंग्रह, लापलंग, शिलोंग - 793006
Executive Director, 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 20.06.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.5.5.1 के प्रावधान के अनुसार, दिनांक 20-जून-2020 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 20th 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: 21-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)	57311	40973	37706	20591	2823	159404
Peak Shortage (MW)	474	0	0	0	10	484
Energy Met (MU)	1358	977	901	432	52	3720
Hydro Gen (MU)	365	52	75	129	24	644
Wind Gen (MU)	49	121	160	-	-	330
Solar Gen (MU)*	39.96	23.74	72.78	4.99	0.03	141
Energy Shortage (MU)	10.6	0.0	0.0	0.0	0.0	10.6
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	62463	41764	40081	21022	2863	162605
Time Of Maximum Demand Met (From NLDC SCADA)	00:00	15:07	15:55	20:53	18:59	22:21

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	0.041	0.00	0.10	4.03	4.13	70.71	25.16

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	12349	0	269.0	149.1	-1.2	95	0.0
	Haryana	9533	0	195.6	141.5	-0.5	351	0.0
	Rajasthan	12303	0	264.6	80.9	0.6	610	0.0
	Delhi	6065	0	107.3	87.5	-1.6	310	0.0
	UP	20398	0	401.3	197.6	0.7	868	0.0
	Uttarakhand	1851	0	41.4	19.6	0.1	72	0.0
	HP	1322	0	27.6	-1.6	-0.3	107	0.0
	J&K(UT) & Ladakh(UT)	2095	524	44.4	22.0	2.7	306	10.6
	Chandigarh	319	0	6.4	6.3	0.1	19	0.0
	Chhattisgarh	3266	0	75.1	23.7	-2.0	217	0.0
WR	Gujarat	14861	0	317.2	99.1	2.1	567	0.0
	MP	7700	0	169.6	101.6	-3.2	719	0.0
	Maharashtra	16748	0	370.5	147.4	2.1	482	0.0
	Goa	517	0	10.5	10.2	-0.1	39	0.0
	DD	203	0	4.6	4.4	0.2	21	0.0
	DNH	540	0	12.4	12.3	0.1	39	0.0
	AMNSIL	779	0	17.2	5.6	0.1	252	0.0
SR	Andhra Pradesh	8353	0	172.6	44.9	-1.3	356	0.0
	Telangana	7569	0	156.9	91.7	-0.3	610	0.0
	Karnataka	9807	0	186.1	59.4	0.7	670	0.0
	Kerala	3166	0	64.1	44.6	-0.2	235	0.0
	Tamil Nadu	13740	0	313.0	141.8	-5.4	340	0.0
	Puducherry	388	0	8.2	8.5	-0.3	28	0.0
	Bihar	5115	0	95.2	90.8	-0.3	416	0.0
ER	DVC	2717	0	59.5	-28.0	0.2	268	0.0
	Jharkhand	1351	0	25.1	18.9	-2.1	148	0.0
	Odisha	4279	0	90.8	8.0	0.6	313	0.0
	West Bengal	7810	0	160.1	54.4	1.7	491	0.0
	Sikkim	94	0	1.3	1.3	0.0	28	0.0
NER	Arunachal Pradesh	118	1	2.3	1.9	0.3	35	0.0
	Assam	1797	30	32.4	27.6	0.5	186	0.0
	Manipur	190	1	2.8	2.4	0.4	42	0.0
	Meghalaya	309	0	5.6	0.1	0.0	76	0.0
	Mizoram	90	1	1.7	1.2	0.2	30	0.0
	Nagaland	121	2	2.4	2.1	0.0	48	0.0
	Tripura	282	1	4.8	5.6	-0.3	33	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	44.5	-1.6	-22.5
Day Peak (MW)	2035.7	-223.4	-1124.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	292.8	-291.0	104.0	-99.8	-6.1	0.0
Actual(MU)	269.6	-287.9	110.4	-89.7	-4.0	-1.5
O/D/U/D(MU)	-23.3	3.1	6.4	10.1	2.1	-1.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	4342	14844	10122	2370	344	32021
State Sector	7710	26428	13643	5282	11	53074
Total	12052	41272	23765	7652	355	85095

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	536	929	339	419	10	2233
Lignite	25	13	48	0	0	85
Hvdro	365	52	75	129	24	644
Nuclear	30	36	47	0	0	113
Gas, Naptha & Diesel	45	76	16	0	28	166
RES (Wind, Solar, Biomass & Others)	110	163	276	5	0	554
Total	1111	1270	802	552	62	3796
Share of RES in total generation (%)	9.90	12.88	34.46	0.91	0.05	14.62
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	45.23	19.83	49.69	24.24	38.63	34.51

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.034
Based on State Max Demands	1.096

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: 21-Jun-2020

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	HVDC	ALIPURDUAR-AGRA	-	0	1001	0.0	24.7	-24.7	
2	HVDC	PUSAULI B/B	S/C	0	399	0.0	9.8	-9.8	
3	765 kV	GAYA-VARANASI	D/C	69	477	0.0	4.7	-4.7	
4	765 kV	SASARAM-FATEHPUR	S/C	184	29	1.3	0.0	1.3	
5	765 kV	GAYA-BALIA	S/C	0	420	0.0	5.1	-5.1	
6	400 kV	PUSAULI-VARANASI	S/C	0	303	0.0	6.6	-6.6	
7	400 kV	PUSAULI-ALLAHABAD	S/C	0	146	0.0	2.8	-2.8	
8	400 kV	MUZAFFARPUR-GORAKHPUR	D/C	0	620	0.0	10.1	-10.1	
9	400 kV	PATNA-BALIA	Q/C	0	1104	0.0	17.0	-17.0	
10	400 kV	BIHARSHARIF-BALIA	D/C	0	392	0.0	4.4	-4.4	
11	400 kV	MOTIHARI-GORAKHPUR	D/C	0	309	0.0	4.7	-4.7	
12	400 kV	BIHARSHARIF-VARANASI	D/C	130	98	0.0	0.1	-0.1	
13	220 kV	PUSAULI-SAHUPURI	S/C	0	125	0.0	1.8	-1.8	
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	0.3	0.0	0.3	
16	132 kV	KARMANASA-SAHUPURI	S/C	0	0	0.0	0.0	0.0	
17	132 kV	KARMANASA-CHANDAULI	S/C	0	0	0.0	0.0	0.0	
						ER-NR	1.6	91.7	-90.1
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1303	0	24.8	0.0	24.8	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	1038	0	14.6	0.0	14.6	
3	765 kV	JHARSUGUDA-DURG	D/C	208	41	2.0	0.0	2.0	
4	400 kV	JHARSUGUDA-RAIGARH	Q/C	180	90	1.5	0.0	1.5	
5	400 kV	RANCHI-SIPAT	D/C	438	0	7.4	0.0	7.4	
6	220 kV	BUDHIPADAR-RAIGARH	S/C	0	112	0.0	1.6	-1.6	
7	220 kV	BUDHIPADAR-KORBA	D/C	175	0	2.5	0.0	2.5	
						ER-WR	52.8	1.6	51.2
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0	410	0.0	10.1	-10.1	
2	HVDC	TALCHER-KOLAR BIPOLE	D/C	0	1475	0.0	30.8	-30.8	
3	765 kV	ANGUL-SRIKAKULAM	D/C	0	2594	0.0	43.8	-43.8	
4	400 kV	TALCHER-I/C	D/C	876	504	5.2	0.0	5.2	
5	220 kV	BALIMELA-UPPER-SILERRU	S/C	1	0	0.0	0.0	0.0	
						ER-SR	0.0	84.6	-84.6
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAOON	D/C	0	480	0.0	5.3	-5.3	
2	400 kV	ALIPURDUAR-BONGAIGAOON	D/C	41	551	0.0	3.9	-3.9	
3	220 kV	ALIPURDUAR-SALAKATI	D/C	0	134	0.0	1.4	-1.4	
						ER-NER	0.0	10.6	-10.6
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	-	0	704	0.0	15.9	-15.9	
						NER-NR	0.0	15.9	-15.9
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	D/C	0	1500	0.0	33.5	-33.5	
2	HVDC	V'CHAL B/B	D/C	50	155	0.3	0.0	0.3	
3	HVDC	APL -MHG	D/C	0	1639	0.0	30.3	-30.3	
4	765 kV	GWALIOR-AGRA	D/C	0	2680	0.0	45.8	-45.8	
5	765 kV	PHAGI-GWALIOR	D/C	0	1326	0.0	21.4	-21.4	
6	765 kV	JABALPUR-ORAI	D/C	0	933	0.0	29.2	-29.2	
7	765 kV	GWALIOR-ORAI	S/C	349	0	6.3	0.0	6.3	
8	765 kV	SAJINA-ORAI	S/C	0	1537	0.0	29.9	-29.9	
9	765 kV	CHITORGARH-BANASKANTHA	D/C	122	1130	0.1	14.5	-14.4	
10	400 kV	ZERDA-KANKROLI	S/C	144	140	0.0	0.0	0.0	
11	400 kV	ZERDA-BHINMAL	S/C	234	168	2.2	0.0	2.2	
12	400 kV	V'CHAL -RIHAND	S/C	975	0	22.4	0.0	22.4	
13	400 kV	RAPP-SHUJALPUR	D/C	75	471	0.0	2.1	-2.1	
14	220 kV	BHANPURA-RANPUR	S/C	11	0	0.0	1.4	-1.4	
15	220 kV	BHANPURA-MORAK	S/C	0	110	0.0	1.5	-1.5	
16	220 kV	MEHGAON-AURAIYA	S/C	175	0	0.0	0.0	0.0	
17	220 kV	MALANPUR-AURAIYA	S/C	0	0	3.4	0.0	3.4	
18	132 kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
19	132 kV	RAIGHAT-LALITPUR	D/C	0	0	0.0	0.0	0.0	
						WR-NR	34.7	210.1	-175.5
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	918	0.0	13.4	-13.4	
2	HVDC	BARSUR-I-SILERRU	-	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	569	2271	1.2	24.3	-23.1	
5	765 kV	WARDHA-NIZAMABAD	D/C	0	2495	0.0	35.3	-35.3	
6	400 kV	KOLHAPUR-KUDGI	D/C	831	5	8.8	0.0	8.8	
7	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0	
8	220 kV	PONDA-AMBEWADI	S/C	1	0	0.0	0.0	0.0	
9	220 kV	XELDEM-AMBEWADI	S/C	1	0	0.0	0.0	0.0	
						WR-SR	10.1	73.1	-63.0

INTERNATIONAL EXCHANGES

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	294	286	264	6.3
	ER	MANGDECHHU (4 x 180) ALIPURDUAR RECEIPT	584	581	501	12.0
	ER	TALA (6 * 170) BINAGURI RECEIPT	1002	995	1033	24.8
	NER	132KV-SALAKATI - GELEPHU	0	0	43	1.0
NEPAL	NR	132KV-Tanakpur(NH) - Mahendranagar(PG)	-33	0	-12	-0.3
	ER	132KV-BIHAR - NEPAL	-30	0	-1	0.0
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-160	-4	-52	-1.3
BANGLADESH	ER	Bheramara HVDC(Bangladesh)	-964	-660	-803	-19.3
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	80	0	-68	-1.6
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	80	0	-68	-1.6