



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: 11th 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 10.06.2020.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 10-जून-2020 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रांभांप्रेके 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 10th 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: 11-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)	51439	40111	34519	21017	2816	149902
Peak Shortage (MW)	511	0	0	0	68	579
Energy Met (MU)	1260	1011	899	461	52	3683
Hydro Gen (MU)	340	55	76	121	15	606
Wind Gen (MU)	28	75	156	-	-	259
Solar Gen (MU)*	42.67	23.60	61.62	4.88	0.03	133
Energy Shortage (MU)	9.6	0.0	0.0	0.0	0.4	9.9
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	57268	44853	41712	21843	2830	161183
Time Of Maximum Demand Met (From NLDC SCADA)	22:07	14:04	14:51	22:58	19:34	15:08

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	0.034	0.00	0.12	5.18	5.30	78.34	16.36

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	9296	0	207.2	147.4	-2.3	386	0.0
	Haryana	7311	0	160.1	121.9	-1.2	352	0.0
	Rajasthan	11540	0	244.7	80.3	0.1	394	0.0
	Delhi	5180	0	103.8	91.1	-2.5	219	0.0
	UP	21070	0	432.5	222.6	0.2	365	0.0
	Uttarakhand	1765	0	40.4	20.5	0.6	98	0.0
	HP	1307	0	26.0	-1.5	-0.9	82	0.0
	J&K(UT) & Ladakh(UT)	2162	541	40.1	16.8	0.2	88	9.6
	Chandigarh	259	0	5.3	5.3	-0.1	20	0.0
	WR	Chhattisgarh	3493	0	80.2	28.0	-3.2	204
Gujarat		13788	0	289.1	64.6	3.1	595	0.0
MP		8325	0	189.1	97.0	-0.8	882	0.0
Maharashtra		19059	0	407.8	151.4	1.0	619	0.0
Goa		452	0	9.4	9.4	-0.4	71	0.0
DD		242	0	5.3	5.2	0.1	23	0.0
DNH		513	0	11.7	11.7	0.0	27	0.0
SR	AMNSIL	822	0	18.2	1.4	0.4	246	0.0
	Andhra Pradesh	8525	0	167.0	51.5	1.1	958	0.0
	Telangana	7676	0	151.5	86.0	0.7	720	0.0
	Karnataka	10333	0	194.6	74.6	3.7	1053	0.0
	Kerala	3004	0	66.8	48.8	0.0	118	0.0
	Tamil Nadu	13095	0	310.8	124.7	-1.9	320	0.0
	Puducherry	374	0	7.9	8.2	-0.3	19	0.0
ER	Bihar	5742	0	115.8	108.8	0.3	340	0.0
	DVC	2859	0	62.8	-37.1	-0.4	350	0.0
	Jharkhand	1419	0	28.8	20.8	-0.9	180	0.0
	Odisha	3975	0	83.0	-0.9	1.1	300	0.0
	West Bengal	8160	0	169.8	51.5	2.0	625	0.0
NER	Sikkim	98	0	1.3	1.4	-0.1	10	0.0
	Arunachal Pradesh	104	0	1.9	1.6	0.3	72	0.0
	Assam	1798	37	33.5	28.4	0.3	181	0.3
	Manipur	185	2	2.5	2.3	0.2	28	0.0
	Meghalaya	312	0	5.5	0.2	0.1	88	0.0
	Mizoram	96	0	1.8	1.2	0.4	19	0.0
	Nagaland	126	1	2.3	2.2	0.0	14	0.0
	Tripura	302	2	4.4	5.2	0.6	108	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	37.2	-2.3	-25.7
Day Peak (MW)	1644.8	-240.1	-1124.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	290.7	-296.4	115.2	-112.0	2.6	0.0
Actual(MU)	275.7	-284.9	115.3	-106.3	6.8	6.7
O/D/U/D(MU)	-14.9	11.6	0.1	5.8	4.2	6.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	4425	17658	10822	2670	407	35982
State Sector	12270	23262	14898	4192	47	54669
Total	16695	40920	25720	6862	454	90651

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	472	1024	353	471	10	2330
Lignite	28	13	44	0	0	85
Hydro	340	55	76	121	15	606
Nuclear	27	36	47	0	0	110
Gas, Naptha & Diesel	40	83	16	0	26	166
RES (Wind, Solar, Biomass & Others)	94	113	257	5	0	469
Total	1001	1325	793	598	51	3766
Share of RES in total generation (%)	9.35	8.54	32.40	0.83	0.06	12.44
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	45.98	15.46	47.87	21.14	28.79	31.47

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.045
Based on State Max Demands	1.084

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: 11-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	501	0.0	12.2	-12.2	
2	HVDC	PUSAULI B/B	S/C	29	398	0.0	9.8	-9.8	
3	765 kV	GAYA-VARANASI	D/C	0	530	0.0	6.6	-6.6	
4	765 kV	SASARAM-FATEHPUR	S/C	254	107	1.8	0.0	1.8	
5	765 kV	GAYABALLA	S/C	0	495	0.0	8.5	-8.5	
6	400 kV	PUSAULI-VARANASI	S/C	0	312	0.0	6.6	-6.6	
7	400 kV	PUSAULI-ALLAHABAD	S/C	0	153	0.0	2.9	-2.9	
8	400 kV	MUZAFFARPUR-GORAKHPUR	D/C	0	634	0.0	10.0	-10.0	
9	400 kV	PATNA-BALLA	Q/C	0	782	0.0	13.7	-13.7	
10	400 kV	BIHARSHARIFF-BALLA	D/C	0	352	0.0	4.8	-4.8	
11	400 kV	MOTIHARI-GORAKHPUR	D/C	0	329	0.0	5.6	-5.6	
12	400 kV	BIHARSHARIFF-VARANASI	D/C	215	160	0.6	0.0	0.6	
13	220 kV	PUSAULI-SAHUPURI	S/C	0	186	0.0	3.4	-3.4	
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-CHANDAULI	S/C	0	0	0.0	0.0	0.0	
						ER-NR	2.8	84.2	-81.4
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1402	0	18.0	0.0	18.0	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	1379	0	17.0	0.0	17.0	
3	765 kV	JHARSUGUDA-DURG	D/C	173	140	0.4	0.0	0.4	
4	400 kV	JHARSUGUDA-RAIGARH	Q/C	154	142	0.4	0.0	0.4	
5	400 kV	RANCHI-SIPAT	D/C	538	0	6.1	0.0	6.1	
6	220 kV	BUDHIPADAR-RAIGARH	S/C	0	2	0.0	0.0	0.0	
7	220 kV	BUDHIPADAR-KORBA	D/C	101	0	1.8	0.0	1.8	
						ER-WR	43.6	0.0	43.6
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0	437	0.0	10.1	-10.1	
2	HVDC	TALCHER-KOLAR BIPOLE	D/C	0	1259	0.0	36.1	-36.1	
3	765 kV	ANGUL-SRIKAKULAM	D/C	0	2503	0.0	44.8	-44.8	
4	400 kV	TALCHER-I/C	D/C	338	330	0.0	1.4	-1.4	
5	220 kV	BALIMELA-UPPER-SILERRU	S/C	1	0	0.0	0.0	0.0	
						ER-SR	0.0	90.9	-90.9
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAOON	D/C	0	518	0.0	7.6	-7.6	
2	400 kV	ALIPURDUAR-BONGAIGAOON	D/C	0	622	0.0	10.3	-10.3	
3	220 kV	ALIPURDUAR-SALAKATI	D/C	0	165	0.0	2.6	-2.6	
						ER-NER	0.0	20.6	-20.6
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	-	0	703	0.0	14.8	-14.8	
						NER-NR	0.0	14.8	-14.8
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	D/C	0	1275	0.0	33.5	-33.5	
2	HVDC	V'CHAL B/B	D/C	298	205	3.1	0.2	0.2	
3	HVDC	APL -MHG	D/C	0	1919	0.0	42.8	-42.8	
4	765 kV	GWALIOR-AGRA	D/C	0	2965	0.0	48.9	-48.9	
5	765 kV	PHAGI-GWALIOR	D/C	0	1396	0.0	24.4	-24.4	
6	765 kV	JABALPUR-ORAI	S/C	0	1101	0.0	38.5	-38.5	
7	765 kV	GWALIOR-ORAI	S/C	414	0	8.0	0.0	8.0	
8	765 kV	SAJNA-ORAI	S/C	0	1617	0.0	31.4	-31.4	
9	765 kV	CHITORGARH-BANASKANTHA	D/C	179	938	0.0	5.2	-5.2	
10	400 kV	ZERDA-KANKROLI	S/C	132	113	0.7	0.0	0.7	
11	400 kV	ZERDA-BHINMAL	S/C	266	124	2.1	0.0	2.1	
12	400 kV	V'CHAL -RIHAND	S/C	977	0	22.6	0.0	22.6	
13	400 kV	RAPP-SHUJALPUR	D/C	5	420	0.0	2.3	2.3	
14	220 kV	BHANPURA-RANPUR	S/C	6	98	1.9	3.5	-1.6	
15	220 kV	BHANPURA-MORAK	S/C	0	119	0.0	0.0	0.0	
16	220 kV	MEHGAON-AURAIYA	S/C	178	0	0.0	0.0	0.0	
17	220 kV	MALANPUR-AURAIYA	S/C	0	0	0.0	0.0	0.0	
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	40.7	230.9	-190.2
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	992	0.0	19.7	-19.7	
2	HVDC	BARBURI-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	354	1948	0.3	19.4	-19.1	
5	765 kV	WARDHA-NIZAMABAD	D/C	0	2156	0.0	30.3	-30.3	
6	400 kV	KOLHAPUR-KUDGI	D/C	712	117	8.5	0.1	8.5	
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	0	81	1.6	0.0	1.6	
						WR-SR	10.4	69.5	-59.0

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	216	172	185	4.4
	ER	MANGDECHHU (4 x 180) ALIPURDUAR RECEIPT	589	584	594	14.3
	ER	TALA (6 * 170) BINAGURI RECEIPT	684	535	647	15.5
	NER	132KV-SALAKATI - GELEPHU	0	0	3	0.1
NEPAL	NR	132KV-Tanakpur(NH) - Mahendranagar(PG)	-20	0	-11	-0.3
	ER	132KV-BIHAR - NEPAL	-130	-10	-70	-1.7
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-90	-2	-13	-0.3
BANGLADESH	ER	Bheramara HVDC(Bangladesh)	-959	-748	-925	-22.2
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	82	0	-72	-1.7
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	83	0	-72	-1.7