



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: 17th 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 16.06.2020.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.5.5.1 के प्रावधान के अनुसार, दिनांक 16-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 16th 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: 17-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)	58141	40488	36885	19575	2807	157896
Peak Shortage (MW)	517	0	0	0	9	526
Energy Met (MU)	1388	951	891	406	52	3688
Hydro Gen (MU)	364	48	76	130	19	638
Wind Gen (MU)	31	71	180	-	-	282
Solar Gen (MU)*	40.93	22.45	61.41	4.59	0.02	129
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)	64361	41104	40372	19847	2884	163169
Time Of Maximum Demand Met (From NLDC SCADA)	22:19	14:49	10:41	21:52	20:11	22:15

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	0.021	0.00	0.00	2.33	2.33	82.96	14.71

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	12305	0	273.0	149.7	-1.1	254	0.0
	Haryana	8538	0	191.6	134.3	1.6	455	0.0
	Rajasthan	11820	0	262.8	88.7	1.7	1070	0.0
	Delhi	5860	0	116.7	95.8	-1.0	199	0.0
	UP	21537	0	424.5	215.6	-0.2	871	0.0
	Uttarakhand	1855	0	40.6	20.2	0.3	133	0.0
	HP	1324	0	27.4	-2.0	0.3	216	0.0
	J&K(UT) & Ladakh(UT)	2208	552	44.6	20.0	1.5	294	10.6
	Chandigarh	328	0	6.4	6.4	0.1	23	0.0
	Chhattisgarh	3155	0	73.7	19.0	-1.1	188	0.0
WR	Gujarat	13859	0	295.2	92.3	1.6	571	0.0
	MP	7602	0	174.0	95.1	-1.6	478	0.0
	Maharashtra	16511	0	362.4	144.3	1.0	447	0.0
	Goa	453	0	9.7	9.7	-0.4	31	0.0
	DD	246	0	5.4	5.2	0.1	24	0.0
	DNH	536	0	12.2	12.0	0.1	20	0.0
SR	AMNSIL	874	0	18.8	7.0	0.1	296	0.0
	Andhra Pradesh	7980	0	169.8	42.1	-0.1	458	0.0
	Telangana	7076	0	146.2	84.6	1.6	589	0.0
	Karnataka	9515	0	178.9	59.5	-0.7	634	0.0
	Kerala	3175	0	66.1	46.7	0.4	180	0.0
	Tamil Nadu	14546	0	321.2	129.0	-2.7	633	0.0
	Puducherry	401	0	8.4	8.5	-0.2	54	0.0
ER	Bihar	5018	0	91.8	88.0	-1.1	200	0.0
	DVC	2664	0	58.5	-27.7	-0.4	349	0.0
	Jharkhand	1270	0	24.4	20.0	-1.8	120	0.0
	Odisha	3769	0	78.4	11.0	-0.7	395	0.0
	West Bengal	7374	0	151.2	50.6	0.0	325	0.0
NER	Sikkim	95	0	1.4	1.5	-0.2	25	0.0
	Arunachal Pradesh	117	1	2.1	1.9	0.2	42	0.0
	Assam	1793	0	33.2	27.5	1.1	114	0.0
	Manipur	189	2	2.9	2.4	0.5	21	0.0
	Meghalaya	298	0	5.4	0.5	0.1	72	0.0
	Mizoram	92	1	1.7	1.3	0.1	26	0.0
	Nagaland	128	1	1.9	2.2	-0.6	7	0.0
	Tripura	280	2	4.9	5.7	-0.1	31	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	48.8	-1.6	-26.4
Day Peak (MW)	2158.9	-209.5	-1123.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	302.5	-316.8	98.2	-84.7	0.8	0.0
Actual(MU)	298.4	-315.9	106.1	-90.5	0.9	-1.0
O/D/U/D(MU)	-4.1	0.9	7.9	-5.9	0.1	-1.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	4123	15003	11082	2370	344	32921
State Sector	8100	24821	13168	5492	11	51592
Total	12223	39824	24250	7862	355	84513

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	547	988	328	402	10	2275
Lignite	27	14	40	0	0	82
Hydro	364	49	76	130	19	638
Nuclear	26	36	47	0	0	110
Gas, Naptha & Diesel	54	79	17	0	29	178
RES (Wind, Solar, Biomass & Others)	92	107	287	5	0	491
Total	1111	1273	796	536	58	3774
Share of RES in total generation (%)	8.28	8.42	36.10	0.87	0.03	13.01
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	43.45	15.09	51.58	25.03	33.36	32.82

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.033
Based on State Max Demands	1.071

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: 17-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	1501	0.0	24.3	-24.3	
2	HVDC	PUSAULI B/B	S/C	1409	398	0.0	9.5	-9.5	
3	765 kV	GAYA-VARANASI	D/C	0	576	0.0	4.7	-4.7	
4	765 kV	SASARAM-FATEHPUR	S/C	166	177	1.5	0.0	1.5	
5	765 kV	GAYA-BALIA	S/C	0	471	0.0	6.0	-6.0	
6	400 kV	PUSAULI-VARANASI	S/C	0	312	0.0	6.5	-6.5	
7	400 kV	PUSAULI-ALLAHABAD	S/C	0	151	0.0	2.6	-2.6	
8	400 kV	MUZAFFARPUR-GORAKHPUR	D/C	0	699	0.0	12.4	-12.4	
9	400 kV	PATNA-BALIA	Q/C	0	966	0.0	17.1	-17.1	
10	400 kV	BIHARSHARIF-BALIA	D/C	0	335	0.0	4.8	-4.8	
11	400 kV	MOTIHARI-GORAKHPUR	D/C	0	315	0.0	4.9	-4.9	
12	400 kV	BIHARSHARIF-VARANASI	D/C	153	133	0.0	0.0	0.0	
13	220 kV	PUSAULI-SAHUPURI	S/C	0	102	0.0	1.6	-1.6	
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	1.8	94.4	-92.6
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1579	0	27.6	0.0	27.6	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	1409	0	16.7	0.0	16.7	
3	765 kV	JHARSUGUDA-DURG	D/C	236	27	2.6	0.0	2.6	
4	400 kV	JHARSUGUDA-RAIGARH	Q/C	313	0	4.4	0.0	4.4	
5	400 kV	RANCHI-SIPAT	D/C	532	0	8.1	0.0	8.1	
6	220 kV	BUDHIPADAR-RAIGARH	S/C	34	74	0.0	0.3	-0.3	
7	220 kV	BUDHIPADAR-KORBA	D/C	224	0	4.2	0.0	4.2	
						ER-WR	63.5	0.3	63.2
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	D/C	77	384	0.0	7.4	-7.4	
2	HVDC	TALCHER-KOLAR BIPOLE	D/C	0	1652	0.0	43.3	-43.3	
3	765 kV	ANGUL-SRIKAKULAM	D/C	0	2452	0.0	42.0	-42.0	
4	400 kV	TALCHER-I/C	D/C	811	979	0.0	6.7	-6.7	
5	220 kV	BALIMELA-UPPER-SILERRU	S/C	1	0	0.0	0.0	0.0	
						ER-SR	0.0	92.7	-92.7
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAOON	D/C	0	444	0.0	5.7	-5.7	
2	400 kV	ALIPURDUAR-BONGAIGAOON	D/C	0	498	0.0	4.9	-4.9	
3	220 kV	ALIPURDUAR-SALAKATI	D/C	0	138	0.0	1.8	-1.8	
						ER-NER	0.0	12.4	-12.4
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	-	0	603	0.0	13.2	-13.2	
						NER-NR	0.0	13.2	-13.2
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	D/C	0	1879	0.0	41.8	-41.8	
2	HVDC	V'CHAL B/B	D/C	0	305	0.0	2.8	-2.8	
3	HVDC	APL -MHG	D/C	0	1916	0.0	37.2	-37.2	
4	765 kV	GWALIOR-AGRA	D/C	0	3086	0.0	47.1	-47.1	
5	765 kV	PHAGI-GWALIOR	D/C	0	1389	0.0	21.1	-21.1	
6	765 kV	JABALPUR-ORAI	D/C	0	1082	0.0	29.6	-29.6	
7	765 kV	GWALIOR-ORAI	S/C	361	0	7.1	6.0	7.1	
8	765 kV	SAINA-ORAI	S/C	0	1603	0.0	31.1	-31.1	
9	765 kV	CHITORGARH-BANASKANTHA	D/C	0	1322	0.0	14.7	-14.7	
10	400 kV	ZERDA-KANKROLI	S/C	56	118	0.0	0.5	-0.5	
11	400 kV	ZERDA-BHINMAL	S/C	227	172	0.0	0.7	0.7	
12	400 kV	V'CHAL -RIHAND	S/C	973	0	21.9	0.0	21.9	
13	400 kV	RAPP-SHUJALPUR	D/C	0	457	0.0	4.9	-4.9	
14	220 kV	BHANPURA-RANPUR	S/C	0	60	1.4	2.4	-1.1	
15	220 kV	BHANPURA-MORAK	S/C	0	109	0.0	0.0	0.0	
16	220 kV	MEHGAON-AURAIYA	S/C	179	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	RAIGHAT-LALITPUR	D/C	0	0	0.0	0.0	0.0	
						WR-NR	31.0	233.2	-202.2
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	725	0.0	13.6	-13.6	
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	549	1971	0.0	18.0	-18.0	
5	765 kV	WARDHA-NIZAMABAD	D/C	0	2218	0.0	31.4	-31.4	
6	400 kV	KOLHAPUR-KUDGI	D/C	972	0	11.1	0.0	11.1	
7	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0	
8	220 kV	PONDA-AMBEWADI	S/C	2	0	0.0	0.0	0.0	
9	220 kV	XELDEM-AMBEWADI	S/C	1	83	0.4	0.0	0.4	
						WR-SR	11.6	63.0	-51.4

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	287	253	250	6.0
	ER	MANGDECHHU (4 x 180) ALIPURDUAR RECEIPT	584	581	573	13.7
	ER	TALA (6 * 170) BINAGURI RECEIPT	1007	980	1038	24.9
	NER	132KV-SALAKATI - GELEPHU	0	0	35	0.8
NEPAL	NR	132KV-Tanakpur(NH) - Mahendranagar(PG)	-20	0	-13	-0.3
	ER	132KV-BIHAR - NEPAL	-15	-11	-3	-0.1
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-174	-2	-49	-1.2
BANGLADESH	ER	Bheramara HVDC(Bangladesh)	-960	-954	-957	-23.0
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	81	0	-72	-1.7
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	82	0	-72	-1.7