



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: 04rd Sep 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., डोंगतेह, 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 03.09.2020.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 03-सितंबर-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 03rd September 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: 04-Sep-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)	56535	44109	38086	22301	2978	164009
Peak Shortage (MW)	768	0	0	0	117	885
Energy Met (MU)	1296	1009	881	469	57	3711
Hydro Gen (MU)	350	114	92	145	20	722
Wind Gen (MU)	2	14	22	-	-	39
Solar Gen (MU)*	24.30	24.06	91.64	4.62	0.10	145
Energy Shortage (MU)	1.6	0.0	0.0	0.0	1.1	2.7
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	58170	45166	41325	22584	3020	165239
Time Of Maximum Demand Met (From NLDC SCADA)	00:11	11:16	11:14	19:42	19:13	19:43

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	0.039	0.08	1.86	5.32	7.27	83.49	9.25

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	10933	0	234.4	139.6	-1.7	83	0.0
	Haryana	9018	0	201.5	163.7	0.7	270	0.1
	Rajasthan	9071	0	194.4	78.7	-2.8	212	0.0
	Delhi	5240	0	108.4	95.0	0.6	186	0.0
	UP	33137	0	434.8	191.3	1.7	1023	1.5
	Uttarakhand	1921	0	42.6	17.6	1.5	133	0.1
	HP	1352	0	30.8	-4.5	-1.0	64	0.0
	J&K(UT) & Ladakh(UT)	2149	0	43.7	26.5	-0.2	205	0.0
	Chandigarh	278	0	5.8	5.6	0.2	37	0.0
	Chhattisgarh	3598	0	84.4	32.3	-0.6	232	0.0
WR	Gujarat	12168	0	272.4	64.3	-3.9	499	0.0
	MP	8609	0	192.9	113.7	-0.1	597	0.0
	Maharashtra	19049	0	408.6	174.0	-2.9	481	0.0
	Goa	424	0	9.1	8.7	-0.2	35	0.0
	DD	304	0	6.7	6.7	0.0	84	0.0
	DNH	746	0	17.1	16.8	0.3	64	0.0
	AMNSIL	781	0	17.4	2.2	0.4	253	0.0
SR	Andhra Pradesh	8045	0	172.7	89.9	0.2	391	0.0
	Telangana	9980	0	197.7	77.7	-1.2	453	0.0
	Karnataka	7735	0	155.2	68.4	0.5	570	0.0
	Kerala	3288	0	67.2	49.8	0.0	216	0.0
	Tamil Nadu	13051	0	280.4	142.7	1.1	517	0.0
	Puducherry	368	0	7.8	8.0	-0.2	29	0.0
ER	Bihar	5822	0	117.1	113.3	3.1	467	0.0
	DVC	2989	0	64.3	-45.9	0.0	214	0.0
	Jharkhand	1567	0	27.8	20.1	-1.5	165	0.0
	Odisha	4520	0	94.1	8.7	-0.1	255	0.0
	West Bengal	8077	0	164.5	39.8	1.1	528	0.0
NER	Sikkim	91	0	1.1	1.4	-0.2	13	0.0
	Arunachal Pradesh	118	1	2.2	2.0	0.2	23	0.0
	Assam	1981	92	37.1	33.1	0.0	147	1.0
	Manipur	201	1	2.9	2.4	0.5	39	0.0
	Meghalaya	296	0	5.5	0.7	-0.3	35	0.0
	Mizoram	96	1	1.6	1.1	0.2	19	0.0
	Nagaland	128	2	2.3	2.4	-0.3	25	0.0
	Tripura	298	1	5.2	5.1	0.5	46	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	49.5	-2.5	-25.5
Day Peak (MW)	2313.0	-256.5	-1088.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	317.7	-319.2	103.4	-111.1	9.2	0.0
Actual(MU)	316.2	-329.1	104.7	-112.6	12.7	-8.1
O/D/U/D(MU)	-1.5	-9.9	1.3	-1.5	3.5	-8.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	6709	14798	8652	3095	659	33913
State Sector	11239	21825	11694	4695	11	49464
Total	17948	36623	20346	7790	671	83377

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	516	1085	447	458	11	2517
Lignite	30	8	24	0	0	62
Hydro	350	114	92	145	20	722
Nuclear	27	33	60	0	0	119
Gas, Naptha & Diesel	34	80	15	0	19	147
RES (Wind, Solar, Biomass & Others)	48	39	144	5	0	235
Total	1003	1359	782	608	50	3802
Share of RES in total generation (%)	4.74	2.86	18.44	0.76	0.20	6.19
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	42.26	13.69	37.91	24.66	39.58	28.31

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.030
Based on State Max Demands	1.134

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: 04-Sep-2020

Sl No	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)	
Import/Export of ER (With NR)									
1	HVDC	ALIPURDUAR-AGRA	2	0	1099	0.0	27.0	-27.0	
2	HVDC	PUSAULI B/B	-	0	198	0.0	4.8	-4.8	
3	765 kV	GAYA-VARANASI	2	0	496	0.0	8.2	-8.2	
4	765 kV	SASARAM-FATEHPUR	1	143	89	0.9	0.0	0.9	
5	765 kV	GAYABALLIA	1	0	460	0.0	8.3	-8.3	
6	400 kV	PUSAULI-VARANASI	1	0	205	0.0	4.1	-4.1	
7	400 kV	PUSAULI-ALLAHABAD	1	0	62	0.0	0.6	-0.6	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	640	0.0	9.9	-9.9	
9	400 kV	PATNA-BALLIA	4	0	827	0.0	15.4	-15.4	
10	400 kV	BIHARSHARIFF-BALLIA	2	0	281	0.0	4.5	-4.5	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	323	0.0	6.3	-6.3	
12	400 kV	BIHARSHARIFF-VARANASI	2	118	124	0.1	0.0	0.1	
13	220 kV	PUSAULI-SAHUPURI	1	0	75	0.0	1.0	-1.0	
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0	
15	132 kV	GARWAH-RIHAND	1	30	0	0.2	0.0	0.2	
16	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0	
17	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0	
						ER-NR	1.2	90.1	-88.9
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1243	0	22.1	0.0	22.1	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1173	0	16.2	0.0	16.2	
3	765 kV	JHARSUGUDA-DURG	2	228	7	2.6	0.0	2.6	
4	400 kV	JHARSUGUDA-RAIGARH	4	208	154	1.2	0.0	1.2	
5	400 kV	RANCHI-SIPAT	2	418	0	5.4	0.0	5.4	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	91	0.0	1.3	-1.3	
7	220 kV	BUDHIPADAR-KORBA	2	111	8	1.2	0.0	1.2	
						ER-WR	48.8	1.3	47.5
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	530	0.0	12.3	-12.3	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1982	0.0	40.0	-40.0	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2237	0.0	37.4	-37.4	
4	400 kV	TALCHER-I/C	2	304	405	0.8	0.0	0.8	
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0	
						ER-SR	0.0	89.7	-89.7
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAOON	2	0	576	0.0	10.1	-10.1	
2	400 kV	ALIPURDUAR-BONGAIGAOON	2	0	673	0.0	11.8	-11.8	
3	220 kV	ALIPURDUAR-SALAKATI	2	0	170	0.0	3.2	-3.2	
						ER-NER	0.0	25.1	-25.1
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	553	0.0	13.4	-13.4	
						NER-NR	0.0	13.4	-13.4
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1251	0.0	52.8	-52.8	
2	HVDC	VINDHYACHAL B/B	-	0	156	0.0	3.7	-3.7	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1457	0.0	36.3	-36.3	
4	765 kV	GWALIOR-AGRA	2	0	2574	0.0	46.7	-46.7	
5	765 kV	PHAGI-GWALIOR	2	0	1206	0.0	23.7	-23.7	
6	765 kV	JABALPUR-ORAI	2	0	972	0.0	36.4	-36.4	
7	765 kV	GWALIOR-ORAI	1	408	0	8.4	0.0	8.4	
8	765 kV	SAJANA-ORAI	1	0	1492	0.0	30.9	-30.9	
9	765 kV	CHITORGARH-BANASKANTHA	2	0	898	0.0	14.1	-14.1	
10	400 kV	ZERDA-KANKROLI	1	39	136	0.0	1.4	-1.4	
11	400 kV	ZERDA-BHINMAL	1	70	136	0.0	0.9	-0.9	
12	400 kV	VINDHYACHAL -RIHAND	1	974	0	22.7	0.0	22.7	
13	400 kV	RAPP-SHUJALPUR	2	0	347	0.0	4.8	-4.8	
14	220 kV	BHANPURA-RANPUR	1	11	0	0.0	0.9	-0.9	
15	220 kV	BHANPURA-MORAK	1	0	74	0.0	1.1	-1.1	
16	220 kV	MEHGAON-AURAIYA	1	85	0	0.3	0.0	0.3	
17	220 kV	MALANPUR-AURAIYA	1	54	14	1.0	0.0	1.0	
18	132 kV	GWALIOR-SAWAI MADHOPUR	1	0	0	0.0	0.0	0.0	
19	132 kV	RAJGHAT-LALITPUR	2	0	0	0.0	0.0	0.0	
						WR-NR	32.4	253.8	-221.4
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	938	0.0	22.3	-22.3	
2	HVDC	RAIGARH-PUGALUR	2	0	499	0.0	12.0	-12.0	
3	765 kV	SOLAPUR-RAICHUR	2	1002	1423	0.0	9.4	-9.4	
4	765 kV	WARDHA-NIZAMABAD	2	0	2074	0.0	29.2	-29.2	
5	400 kV	KOLHAPUR-KUDGI	2	791	0	12.9	0.0	12.9	
6	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0	
7	220 kV	PONDA-AMBEWADI	1	0	0	0.0	0.0	0.0	
8	220 kV	XELDEM-AMBEWADI	1	0	91	1.7	0.0	1.7	
						WR-SR	14.6	72.8	-58.2
INTERNATIONAL EXCHANGES									
State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange (MU)			
BHUTAN	ER	400KV MANGDECHHU-ALIPURDUAR 1&2 i.e. ALIPURDUAR RECEIPT (from MANGDECHHU HEP 4*180MW)	729	585	597	14.3			
	ER	400KV TALA-BINAGURI 1,2,4 (& 400KV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	1080	1040	1048	25.2			
	ER	230KV CHUKHA-BIRPARA 1&2 (& 220KV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	383	0	336	8.1			
	NER	132KV-GEYLEGPHU - SALAKATI	51	0	-31	-0.7			
	NER	132KV Motanga-Rangia	69	46	-50	-1.2			
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-53	0	-33	-0.8			
	ER	132KV-BIHAR - NEPAL	36	1	-12	-0.3			
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	168	2	-58	-1.4			
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-908	-901	-906	-21.8			
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	90	0	-78	-1.9			

	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	90	0	-78	-1.9
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