



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 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 10.09.2020.

महोदय/Dear Sir,

आईंईंजींसीं-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 10-सितंबर-2020 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रांभांप्रेंकें 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 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: 11-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)	64254	45635	37025	22258	2887	172060
Peak Shortage (MW)	280	0	0	0	12	292
Energy Met (MU)	1400	1122	904	475	55	3956
Hydro Gen (MU)	327	79	92	144	19	661
Wind Gen (MU)	6	19	94	-	-	118
Solar Gen (MU)*	36.57	23.16	83.77	4.49	0.09	148
Energy Shortage (MU)	0.2	0.0	0.0	0.0	0.1	0.2
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	64915	48934	43078	22543	2971	173500
Time Of Maximum Demand Met (From NLDC SCADA)	22:18	10:46	11:56	19:57	18:30	19:42

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	0.019	0.00	0.00	0.80	0.80	82.35	16.85

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	11125	0	253.4	143.2	-2.2	0	0.0
	Haryana	9610	0	207.8	154.0	0.8	188	0.0
	Rajasthan	10375	0	226.8	83.9	0.5	396	0.0
	Delhi	5578	0	114.3	101.2	0.6	175	0.0
	UP	23483	0	471.9	222.4	0.7	687	0.0
	Uttarakhand	1959	0	43.4	20.8	0.2	69	0.2
	HP	1425	0	32.7	0.8	-0.1	181	0.0
	J&K(UT) & Ladakh(UT)	2310	0	43.7	24.8	1.0	402	0.0
	Chandigarh	306	0	6.0	6.0	0.1	27	0.0
	Chhattisgarh	3886	0	92.5	38.5	-1.4	239	0.0
WR	Gujarat	15685	0	342.6	76.5	1.0	550	0.0
	MP	10084	0	222.5	117.8	-1.4	545	0.0
	Maharashtra	18527	0	411.9	169.4	-3.7	535	0.0
	Goa	450	0	9.6	9.2	-0.2	35	0.0
	DD	314	0	7.0	7.0	0.0	27	0.0
	DNH	774	0	17.8	17.9	-0.1	54	0.0
	AMNSIL	802	0	17.8	2.8	0.8	289	0.0
	Andhra Pradesh	9043	0	189.2	76.7	1.9	681	0.0
	Telangana	11345	0	217.0	101.1	-1.0	610	0.0
	Karnataka	7717	0	155.3	54.5	0.5	529	0.0
SR	Kerala	3014	0	63.2	47.3	0.1	183	0.0
	Tamil Nadu	12822	0	272.2	113.5	-3.4	419	0.0
	Puducherry	360	0	7.5	8.0	-0.5	25	0.0
	Bihar	6189	0	119.7	114.6	-1.2	444	0.0
	DVC	3207	0	64.4	-47.2	0.9	211	0.0
	Jharkhand	1263	0	29.2	24.1	-1.0	0	0.0
	Odisha	4101	0	85.8	24.0	-0.5	227	0.0
	West Bengal	8094	0	174.8	54.6	0.0	100	0.0
	Sikkim	84	0	1.0	1.3	-0.2	10	0.0
	NER	Arunachal Pradesh	113	1	2.3	2.1	0.2	51
Assam		1889	23	35.7	32.4	-0.2	125	0.0
Manipur		204	1	2.5	2.6	-0.1	22	0.0
Meghalaya		318	0	5.7	0.6	0.1	34	0.0
Mizoram		93	2	1.7	1.0	0.3	35	0.0
Nagaland		127	2	2.4	2.5	-0.3	21	0.0
Tripura		283	1	5.0	5.7	-0.1	43	0.0
ER								

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	52.4	-3.0	-25.8
Day Peak (MW)	2294.0	-306.2	-1120.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	343.1	-343.6	111.4	-116.3	5.3	0.0
Actual(MU)	347.7	-338.6	100.0	-116.4	7.6	0.3
OD/UD(MU)	4.6	5.0	-11.4	-0.1	2.3	0.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	3502	10678	11002	1815	425	27423
State Sector	8179	17613	12732	5895	11	44430
Total	11681	28291	23734	7710	436	71852

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	606	1226	405	467	9	2713
Lignite	25	10	24	0	0	59
Hydro	327	79	92	144	19	661
Nuclear	26	21	67	0	0	114
Gas, Naptha & Diesel	30	94	16	0	26	166
RES (Wind, Solar, Biomass & Others)	58	42	211	5	0	316
Total	1073	1471	814	616	54	4029
Share of RES in total generation (%)	5.43	2.87	25.87	0.74	0.17	7.84
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	38.35	9.64	45.39	24.10	35.07	27.07

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.052
Based on State Max Demands	1.078

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-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	999	0.0	24.9	-24.9
2	HVDC	PUSAULI-BB	-	3	0	0.0	0.0	0.0
3	765 kV	GAYA-VARANASI	2	0	555	0.0	9.7	-9.7
4	765 kV	SASARAM-FATEHPUR	1	103	216	0.0	0.5	-0.5
5	765 kV	GAYA-BALIA	1	0	567	0.0	10.3	-10.3
6	400 kV	PUSAULI-VARANASI	1	0	82	0.0	1.1	-1.1
7	400 kV	PUSAULI-ALLAHABAD	1	71	9	1.2	0.0	1.2
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	787	0.0	13.9	-13.9
9	400 kV	PATNA-BALIA	4	0	1059	0.0	19.8	-19.8
10	400 kV	BIHARSHARIFF-BALIA	2	0	447	0.0	7.7	-7.7
11	400 kV	MOTIHARI-GORAKHPUR	2	0	327	0.0	6.1	-6.1
12	400 kV	BIHARSHARIFF-VARANASI	2	67	260	0.0	1.4	-1.4
13	220 kV	PUSAULI-SAHUPURI	1	0	154	0.0	3.0	-3.0
14	132 kV	SONENAGAR-RIHAND	2	0	0	0.0	0.0	0.0
15	132 kV	GAWALIOR-RIHAND	1	30	0	0.4	0.0	0.4
16	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0
17	132 kV	KARMANASA-CHANDAULI	1	0	44	0.0	0.0	0.0
ER-NR						1.5	98.5	-96.9
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	919	0	15.5	0.0	15.5
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1408	0	24.9	0.0	24.9
3	765 kV	JHARSUGUDA-DURG	2	168	89	1.3	0.0	1.3
4	400 kV	JHARSUGUDA-RAIGARH	4	405	0	5.6	0.0	5.6
5	400 kV	RANCHI-SIPAT	2	490	0	7.6	0.0	7.6
6	220 kV	BUDHIPADAR-RAIGARH	1	19	68	0.0	0.4	-0.4
7	220 kV	BUDHIPADAR-KORBA	2	225	0	4.2	0.0	4.2
ER-WR						59.1	0.4	58.7
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	597	0.0	8.9	-8.9
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1891	0.0	43.0	-43.0
3	765 kV	ANGUL-SRIKAKULAM	2	0	2274	0.0	36.9	-36.9
4	400 kV	TALCHER-JC	2	0	772	0.0	11.4	-11.4
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
ER-SR						0.0	88.8	-88.8
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	460	0.0	7.0	-7.0
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	599	0.0	9.1	-9.1
3	220 kV	ALIPURDUAR-SALAKATI	2	0	148	0.0	2.5	-2.5
ER-NER						0.0	18.6	-18.6
Import/Export of ER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	553	0.0	12.2	-12.2
NER-NR						0.0	12.2	-12.2
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1250	0.0	48.2	-48.2
2	HVDC	VINDHYACHAL B/B	-	227	54	2.9	0.2	2.7
3	HVDC	MUNDA-MOHINDERGARH	2	0	1919	0.0	39.9	-39.9
4	765 kV	GWALIOR-AGRA	2	0	2819	0.0	51.7	-51.7
5	765 kV	PHAGI-GWALIOR	2	0	1312	0.0	23.9	-23.9
6	765 kV	JABALPUR-ORAI	2	0	1136	0.0	45.0	-45.0
7	765 kV	GWALIOR-ORAI	1	442	0	9.0	0.0	9.0
8	765 kV	SATNA-ORAI	1	0	1537	0.0	32.7	-32.7
9	765 kV	CHITORGARH-BANASKANTHA	2	0	1123	0.0	16.4	-16.4
10	400 kV	ZERDA-KANKROLI	1	14	214	0.0	2.2	-2.2
11	400 kV	ZERDA-BHINMAL	1	7	334	0.0	2.9	-2.9
12	400 kV	VINDHYACHAL-RIHAND	1	971	0	22.6	0.0	22.6
13	400 kV	RAPP-SHUJALPUR	2	0	515	0.0	7.0	-7.0
14	220 kV	BHANPURA-RANPUR	1	11	0	0.0	2.1	-2.1
15	220 kV	BHANPURA-MORAK	1	0	145	0.0	2.5	-2.5
16	220 kV	MEHGAON-AURAIYA	1	92	0	0.2	0.0	-0.1
17	220 kV	MALANPUR-AURAIYA	1	50	41	0.8	0.0	0.8
18	132 kV	GWALIOR-SAWAI MADHOPUR	1	0	0	0.0	0.0	0.0
19	132 kV	RAIGHAT-LALITPUR	2	0	0	0.0	0.0	0.0
WR-NR						35.5	274.9	-239.4
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	488	0.0	9.7	-9.7
2	HVDC	RAIGARH-PUGALUR	2	0	997	0.0	15.1	-15.1
3	765 kV	SOLAPUR-RAICHUR	2	1279	1107	0.0	2.8	-2.8
4	765 kV	WARDHA-NIZAMABAD	2	0	2241	0.0	30.3	-30.3
5	400 kV	KOLHAPUR-KUDGI	2	781	0	11.2	0.0	11.2
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	76	1.5	0.0	1.5
WR-SR						12.7	57.9	-45.1

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)	773	0	728	17.5
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	1060	0	1035	24.8
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	352	0	325	7.8
	NER	132KV-GEYLEGPHU - SALAKATI	56	39	-49	-1.2
NEPAL	NER	132kV Motanga-Rangla	53	0	-48	-1.1
	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-56	0	-27	-0.7
	ER	132KV-BIHAR - NEPAL	-56	0	-17	-0.4
BANGLADESH	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-194	-10	-80	-1.9
	ER	BHERAMARA HVDC(BANGLADESH)	-948	0	-929	-22.3
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	86	0	-74	-1.8
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	86	0	-74	-1.8