



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: 25th Sep 2020

To,

- कार्यकारी निदेशक, पू.क्षे.भा.प्रे.के.,14, गोल्फ क्लब रोड, कोलकाता - 700033
Executive Director, ERLDC, 14 Golf Club Road, Tollygunge, Kolkata, 700033
- 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
- 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
- कार्यकारी निदेशक, ऊ.पू.क्षे.भा.प्रे.के., डोंगतेिएह, लोअर नोंग्रह, लापालंग, शिलोंग – 793006
Executive Director, NERLDC, Dongteih, Lower Nongrah, Lapalang, Shillong - 793006, Meghalaya
- 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 24.09.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 24-सितंबर-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 24th 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: 25-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)	59350	45375	39213	21006	2765	167709
Peak Shortage (MW)	0	0	0	0	112	112
Energy Met (MU)	1314	1030	906	437	50	3737
Hydro Gen (MU)	304	111	159	140	29	742
Wind Gen (MU)	15	63	90	-	-	169
Solar Gen (MU)*	37.80	23.21	90.13	4.33	0.05	156
Energy Shortage (MU)	0.4	0.0	0.0	0.0	4.5	4.9
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	60290	46743	43016	21179	2799	170414
Time Of Maximum Demand Met (From NLDC SCADA)	19:45	19:16	12:30	19:19	19:38	19:29

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	0.049	0.79	2.21	7.62	10.61	84.27	5.12

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	11088	0	254.1	142.5	-1.7	30	0.0
	Haryana	8934	0	198.1	143.1	1.3	250	0.0
	Rajasthan	12151	0	266.3	82.5	-3.0	334	0.0
	Delhi	5763	0	119.3	108.3	-0.4	217	0.1
	UP	17701	0	349.7	162.2	-3.2	223	0.3
	Uttarakhand	1885	0	39.8	21.7	-1.4	60	0.0
	HP	1466	0	32.4	7.0	0.1	105	0.0
	J&K(UT) & Ladakh(UT)	2490	0	48.9	24.9	2.0	214	0.0
	Chandigarh	286	0	5.5	5.7	-0.2	29	0.0
	Chhattisgarh	3507	0	82.8	23.6	-0.9	306	0.0
WR	Gujarat	14850	0	314.5	89.0	3.5	654	0.0
	MP	9063	0	194.4	86.2	-3.1	683	0.0
	Maharashtra	17948	0	385.7	133.2	-0.1	562	0.0
	Goa	453	0	9.4	8.9	-0.1	46	0.0
	DD	319	0	7.1	7.1	0.0	27	0.0
	DNH	790	0	18.8	18.0	0.8	90	0.0
	AMNSIL	835	0	17.5	2.9	0.0	223	0.0
	Andhra Pradesh	8260	0	174.4	74.1	0.2	622	0.0
	Telangana	8721	0	171.8	69.1	1.4	725	0.0
	Karnataka	8496	0	163.3	54.7	1.1	692	0.0
SR	Kerala	3312	0	65.7	37.5	-0.8	240	0.0
	Tamil Nadu	14419	0	321.9	169.8	3.8	1024	0.0
	Puducherry	398	0	8.4	8.2	0.2	85	0.0
	Bihar	4275	0	82.4	77.6	1.7	748	0.0
	DVC	3061	0	64.5	-47.4	-2.0	253	0.0
ER	Jharkhand	1588	0	28.0	20.0	-0.3	356	0.0
	Odisha	4784	0	98.0	19.3	-1.2	454	0.0
	West Bengal	7850	0	163.0	50.0	-0.2	369	0.0
	Sikkim	86	0	1.0	1.3	-0.3	20	0.0
	Arunachal Pradesh	119	2	2.2	2.1	0.0	30	0.0
NER	Assam	1820	100	30.6	27.1	0.2	159	4.5
	Manipur	188	4	2.7	2.5	0.2	42	0.0
	Meghalaya	328	0	5.8	0.6	-0.3	37	0.0
	Mizoram	90	2	1.6	1.1	0.2	9	0.0
	Nagaland	126	2	2.3	2.3	-0.2	23	0.0
	Tripura	258	2	4.6	5.7	0.1	42	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	49.9	-0.8	-25.7
Day Peak (MW)	2230.0	-169.5	-1093.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	337.8	-328.6	134.8	-138.3	-5.7	0.0
Actual(MU)	325.5	-336.7	156.0	-142.5	-6.5	-4.1
OD/UD(MU)	-12.2	-8.1	21.2	-4.2	-0.8	-4.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	5440	16530	12752	2005	525	37253
State Sector	7659	20151	16387	5395	112	49704
Total	13099	36681	29139	7400	637	86956

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	577	1057	283	467	7	2391
Lignite	28	12	26	0	0	66
Hydro	304	111	159	140	29	742
Nuclear	26	20	69	0	0	116
Gas, Naptha & Diesel	16	69	15	0	25	125
RES (Wind, Solar, Biomass & Others)	67	87	210	4	0	369
Total	1018	1356	762	611	61	3808
Share of RES in total generation (%)	6.61	6.42	27.58	0.71	0.08	9.68
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	39.09	16.08	57.51	23.56	46.56	32.21

H. All India Demand Diversity Factor

Based on Regional Max Demands	1,021
Based on State Max Demands	1,043

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)

Sl No.	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Date of Reporting: 25-Sep-2020		
						Import (MU)	Export (MU)	NET (MU)
Import/Export of ER (With NR)								
1	HVDC	ALIPURDUAR-AGRA	2	0	1000	0.0	24.3	-24.3
2	HVDC	PUSAULI B/B	-	0	297	0.0	7.2	-7.2
3	765 kV	GAYA-VARANASI	2	0	763	0.0	12.1	-12.1
4	765 kV	SASARAM-FATEHPUR	1	0	273	0.0	1.8	-1.8
5	765 kV	GAYA-BALIA	1	0	439	0.0	8.0	-8.0
6	400 kV	PUSAULI-VARANASI	1	0	200	0.0	4.3	-4.3
7	400 kV	PUSAULI-ALLAHABAD	1	0	151	0.0	2.8	-2.8
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	795	0.0	14.9	-14.9
9	400 kV	PATNA-BALIA	4	0	1036	0.0	19.8	-19.8
10	400 kV	BHARSHARIFF-BALIA	2	0	423	0.0	7.3	-7.3
11	400 kV	MOTIHARI-GORAKHPUR	2	0	313	0.0	5.0	-5.0
12	400 kV	BHARSHARIFF-VARANASI	2	0	245	0.0	2.8	-2.8
13	220 kV	PUSAULI-SAHUPURI	1	0	119	0.0	1.9	-1.9
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	30	0	0.3	0.0	0.3
16	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0
17	132 kV	KARMANASA-CHANDALI	1	0	0	0.0	0.0	0.0
ER-NR						0.3	112.3	-112.0
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1618	0	25.3	0.0	25.3
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	657	52	7.9	0.0	7.9
3	765 kV	JHARSUGUDA-DURG	2	296	24	3.0	0.0	3.0
4	400 kV	JHARSUGUDA-RAIGARH	4	244	37	3.0	0.0	3.0
5	400 kV	RANCHI-SIPAT	2	334	18	5.1	0.0	5.1
6	220 kV	BUDHIPADAR-RAIGARH	1	0	105	0.0	1.6	-1.6
7	220 kV	BUDHIPADAR-KORBA	2	158	0	2.8	0.0	2.8
ER-WR						47.1	1.6	45.5
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	590	0.0	13.7	-13.7
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1795	0.0	42.3	-42.3
3	765 kV	ANGUL-SRIKAKULAM	2	0	3060	0.0	58.8	-58.8
4	400 kV	TALCHER-I/C	2	121	558	0.0	2.7	-2.7
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
ER-SR						0.0	114.7	-114.7
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	7	316	0.0	3.0	-3.0
2	400 kV	ALIPURDUAR-BONGAIGAON	2	154	319	0.0	1.4	-1.4
3	220 kV	ALIPURDUAR-SALAKATI	2	0	100	0.0	1.2	-1.2
ER-NER						0.0	5.7	-5.7
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	604	0.0	14.5	-14.5
NER-NR						0.0	14.5	-14.5
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1499	0.0	42.5	-42.5
2	HVDC	WINDHYACHAL B/B	-	449	254	3.7	0.0	3.7
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1079	0.0	26.7	-26.7
4	765 kV	GWALIOR-AGRA	2	0	2401	0.0	46.1	-46.1
5	765 kV	PHAGI-GWALIOR	2	0	1051	0.0	18.4	-18.4
6	765 kV	JABALPUR-ORAI	2	0	905	0.0	34.9	-34.9
7	765 kV	GWALIOR-ORAI	1	450	0	7.8	0.0	7.8
8	765 kV	SATNA-ORAI	1	0	1419	0.0	30.3	-30.3
9	765 kV	CHITORGARH-BANASKANTHA	2	0	1066	0.0	17.2	-17.2
10	400 kV	ZERDA-KANKROLI	1	0	172	0.0	2.0	-2.0
11	400 kV	ZERDA-BHINMAL	1	43	285	0.0	3.2	-3.2
12	400 kV	WINDHYACHAL-RIHAND	1	939	0	11.2	0.0	11.2
13	400 kV	RAPP-SHUJALPUR	2	0	474	0.0	8.0	-8.0
14	220 kV	BHANPURA-RANPUR	1	0	129	0.0	2.1	-2.1
15	220 kV	BHANPURA-MORAK	1	11	0	0.0	1.9	-1.9
16	220 kV	MEHGAON-AURAYVA	1	103	0	0.4	0.0	0.3
17	220 kV	MALANPUR-AURAYVA	1	57	13	1.3	0.0	1.3
18	132 kV	GWALIOR-SAWAI MADHOPUR	1	0	0	0.0	0.0	0.0
19	132 kV	RAIGHAT-JALITPUR	2	0	0	0.0	0.0	0.0
WR-NR						24.3	233.1	-208.8
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1023	0.0	22.4	-22.4
2	HVDC	RAIGARH-PUGALUR	2	477	150	8.0	0.0	8.0
3	765 kV	SOLAPUR-RAICHUR	2	160	2785	0.0	34.5	-34.5
4	765 kV	WARDHAN-NIZAMABAD	2	0	2617	0.0	40.0	-40.0
5	400 kV	KOLHAPUR-KUDGI	2	622	202	5.4	0.3	5.1
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	87	1.5	0.0	1.5
WR-SR						15.0	97.2	-82.2

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)	604	0	582	14.0
	ER	400KV TALA-BINAGURI 1,2,4 (& 400KV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	1083	1081	1081	25.9
	ER	220KV CHUKHA-BIRPARA 1&2 (& 220KV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	417	0	314	7.5
	NER	132KV-GEYLEGPHU - SALAKATI	62	0	-53	-1.3
	NER	132KV Motanga-Rangia	65	-28	-50	-1.2
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-40	0	-5	-0.1
	ER	132KV-BIHAR - NEPAL	-2	0	-1	0.0
BANGLADESH	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-128	-10	-26	-0.6
	ER	BHERAMARA HVDC(BANGLADESH)	-942	-936	-940	-22.6
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	76	0	-65	-1.6
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	75	0	-65	-1.6