



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: 02ndOct 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 , लापालंग, 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 01.10.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 01-अक्टूबर-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 01st October 2020, is available at the NLDC website.

धन्यवाद,

पाँवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड
राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली



Report for previous day

Date of Reporting: 02-Oct-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 1900 hrs; from RLDCs)	55459	48484	38127	21449	2844	166363
Peak Shortage (MW)	57	0	0	0	96	153
Energy Met (MU)	1252	1116	819	461	55	3703
Hydro Gen (MU)	218	95	128	131	25	597
Wind Gen (MU)	18	38	110	-	-	167
Solar Gen (MU)*	39.65	28.54	82.80	3.32	0.05	154
Energy Shortage (MU)	0.5	0.0	0.0	0.0	2.1	2.6
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	57926	49025	37366	21562	2868	167818
Time Of Maximum Demand Met (From NLDC SCADA)	19:45	19:00	18:51	19:38	18:47	19:00

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	0.03	0.03	77.94	22.03

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	8927	0	195.4	121.1	-1.8	172	0.0
	Harvana	8249	0	183.4	139.0	1.5	213	0.0
	Rajasthan	11245	0	247.9	78.5	0.8	554	0.0
	Delhi	4765	0	100.6	90.2	-0.7	91	0.0
	UP	20768	238	403.9	171.5	-2.1	388	0.5
	Uttarakhand	1857	0	38.9	21.8	0.3	109	0.0
	HP	1462	0	30.4	12.2	0.2	144	0.0
	J&K(UT) & Ladakh(UT)	2590	0	47.4	30.5	1.9	362	0.0
	Chandigarh	227	0	4.5	4.6	-0.1	31	0.0
WR	Chhattisgarh	3963	0	92.8	35.9	-0.6	181	0.0
	Gujarat	15544	0	346.4	86.2	0.6	639	0.0
	MP	9551	0	215.7	123.3	-2.6	496	0.0
	Maharashtra	18365	0	409.1	141.3	-1.2	517	0.0
	Goa	490	0	10.0	9.4	0.0	63	0.0
	DD	306	0	7.0	7.0	0.0	17	0.0
	DNH	761	0	17.7	17.9	-0.1	19	0.0
	AMNSIL	783	0	17.3	1.4	0.5	228	0.0
	Andhra Pradesh	7286	0	147.9	53.9	1.2	480	0.0
SR	Telangana	7732	0	159.5	43.3	-1.1	526	0.0
	Karnataka	7815	0	154.9	54.3	0.8	622	0.0
	Kerala	3375	0	67.9	36.0	1.1	227	0.0
	Tamil Nadu	13087	0	282.0	135.7	-2.5	488	0.0
	Puducherry	348	0	6.5	7.1	-0.6	58	0.0
	Bihar	5695	0	115.9	109.7	0.9	518	0.0
ER	DVC	2884	0	63.3	-45.6	0.6	321	0.0
	Jharkhand	1407	0	27.7	21.8	-2.1	63	0.0
	Odisha	4103	0	86.1	11.2	0.1	402	0.0
	West Bengal	7948	0	166.9	53.3	5.3	679	0.0
	Sikkim	89	0	1.2	1.4	-0.3	9	0.0
	NER	Arumachal Pradesh	117	2	2.0	2.0	0.0	36
Assam		1870	83	35.6	32.2	-0.2	126	2.1
Manipur		187	2	2.7	2.6	0.1	24	0.0
Meghalava		314	0	5.8	0.6	-0.2	86	0.0
Mizoram		83	1	1.6	1.1	0.2	9	0.0
Nagaland		121	1	2.6	2.3	0.0	20	0.0
Tripura		263	1	4.8	6.7	0.1	86	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	47.2	-2.3	-25.4
Day Peak (MW)	2202.0	-270.1	-1095.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	353.4	-310.6	64.7	-109.4	2.0	0.0
Actual(MU)	368.2	-329.3	51.0	-98.8	1.9	-6.9
O/D/U/D(MU)	14.8	-18.7	-13.7	10.6	-0.1	-6.9

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	5647	14012	12002	1955	525	34141
State Sector	10679	17115	15597	5457	112	48960
Total	16326	31127	27599	7412	637	83102

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	546	1172	322	452	7	2499
Lignite	25	12	21	0	0	58
Hvdro	218	95	128	131	25	597
Nuclear	27	21	69	0	0	117
Gas, Naptha & Diesel	23	59	16	0	27	125
RES (Wind, Solar, Biomass & Others)	69	68	222	3	0	362
Total	908	1426	778	587	59	3757

Share of RES in total generation (%)	7.62	4.74	28.53	0.57	0.09	9.64
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	34.55	12.83	53.88	22.97	42.74	28.63

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.006
Based on State Max Demands	1.040

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: 02-Oct-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	24.3	-24.3
2	HVDC	PUSAULI-BB	-	0	299	0.0	7.0	-7.0
3	765 kV	GAYA-VARANASI	2	0	529	0.0	8.2	-8.2
4	765 kV	SASARAM-FATEHPUR	1	256	128	2.4	0.0	2.4
5	765 kV	GAYA-BALIA	1	0	450	0.0	8.5	-8.5
6	400 kV	PUSAULI-VARANASI	1	0	248	0.0	5.4	-5.4
7	400 kV	PUSAULI-ALLAHABAD	1	0	128	0.0	2.0	-2.0
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	569	0.0	9.0	-9.0
9	400 kV	PATNA-BALIA	4	0	685	0.0	13.1	-13.1
10	400 kV	BIHARSHARIFF-BALIA	2	0	279	0.0	4.6	-4.6
11	400 kV	MOTIHARI-GORAKHPUR	2	0	320	0.0	5.2	-5.2
12	400 kV	BIHARSHARIFF-VARANASI	2	127	111	0.7	0.0	0.7
13	220 kV	PUSAULI-SAHUPURI	1	0	128	0.0	2.4	-2.4
14	132 kV	SONENAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	2	20	0	0.7	0.0	0.7
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						3.7	89.5	-85.8
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	527	276	5.9	0.0	5.9
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1372	0	16.4	0.0	16.4
3	765 kV	JHARSUGUDA-DURG	2	211	111	1.0	0.0	1.0
4	400 kV	JHARSUGUDA-RAIGARH	4	325	41	4.2	0.0	4.2
5	400 kV	RANCHI-SIPAT	2	493	0	7.5	0.0	7.5
6	220 kV	BUDHIPADAR-RAIGARH	1	0	142	0.0	1.8	-1.8
7	220 kV	BUDHIPADAR-KORBA	2	111	19	1.1	0.0	1.1
ER-WR						36.0	1.8	34.2
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	578	0.0	10.7	-10.7
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1635	0.0	31.2	-31.2
3	765 kV	ANGUL-SRIKAKULAM	2	0	2413	0.0	36.2	-36.2
4	400 kV	TALCHER-J/C	2	850	102	9.9	0.0	9.9
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
ER-SR						0.0	78.1	-78.1
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	484	0.0	6.7	-6.7
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	513	0.0	5.8	-5.8
3	220 kV	ALIPURDUAR-SALAKATI	2	0	132	0.0	2.2	-2.2
ER-NER						0.0	14.6	-14.6
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	603	0.0	14.6	-14.6
NER-NR						0.0	14.6	-14.6
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2001	0.0	80.6	-80.6
2	HVDC	VINDHYACHAL B/B	-	0	107	0.0	2.4	-2.4
3	HVDC	MUNDA-MOHINDERGARH	2	0	1919	0.0	40.3	-40.3
4	765 kV	GWALIOR-AGRA	2	0	2792	0.0	53.6	-53.6
5	765 kV	PHAGI-GWALIOR	2	0	1288	0.0	23.9	-23.9
6	765 kV	JABALPUR-ORAI	2	0	1035	0.0	43.1	-43.1
7	765 kV	GWALIOR-ORAI	1	494	0	8.9	0.0	8.9
8	765 kV	SATNA-ORAI	1	0	1528	0.0	33.2	-33.2
9	765 kV	CHITORGARH-BANASKANTHA	2	0	910	0.0	15.6	-15.6
10	400 kV	ZERDA-KANKROLI	1	0	140	0.0	1.9	-1.9
11	400 kV	ZERDA-BHINMAL	1	17	251	0.0	2.9	-2.9
12	400 kV	VINDHYACHAL-RIHAND	1	969	0	22.8	0.0	22.8
13	400 kV	RAPP-SHUJALPUR	2	0	507	0.0	8.9	-8.9
14	220 kV	BHANPURA-RANPUR	1	0	144	0.0	2.5	-2.5
15	220 kV	BHANPURA-MORAK	1	11	0	0.0	2.5	-2.5
16	220 kV	MEHGAON-AURAIYA	1	95	7	0.1	0.3	-0.1
17	220 kV	MALANPUR-AURAIYA	1	49	38	0.0	0.0	0.0
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						32.7	311.6	-278.9
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	518	0.0	9.7	-9.7
2	HVDC	RAIGARH-PUGALUR	2	0	151	0.0	3.2	-3.2
3	765 kV	SOLAPUR-RAICHUR	2	1609	1409	4.0	0.0	4.0
4	765 kV	WARDHA-NIZAMABAD	2	157	1831	0.0	18.9	-18.9
5	400 kV	KOLHAPUR-KUDGI	2	743	0	12.2	0.0	12.2
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	1	77	1.5	0.0	1.5
WR-SR						17.6	31.8	-14.2

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)	585	0	490	11.8
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	1082	0	1045	25.1
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	389	0	327	7.8
	NER	132KV-GEYLEGPHU - SALAKATI	78	5	-51	-1.2
	NER	132kV Motanga-Rangla	68	25	-55	-1.3
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-53	0	-24	-0.6
	ER	132KV-BIHAR - NEPAL	-63	-1	-15	-0.4
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-154	0	-57	-1.4
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-941	0	-924	-22.2
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	77	0	-68	-1.6
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	77	0	-68	-1.6