National Load Despatch Centre
राष्ट्रीय भार प्रेषण केंद्र
POWER SYSTEM OPERATION CORPORATION LIMITED
पॉवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड
(Government of India Enterprise/ भारत सरकार का उद्यम)
B-9, QUTUB INSTITUTIONAL AREA, KATWARIA SARAI, NEW DELHI -110016
बी-9, क़ुतुब इन्स्टीट्यूशनल एरिया, कटवारिया सराये, न्यू दिल्ली-110016

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 23rd 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., डोंगतिएह, 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 22.09.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 22-सितंबर-2020 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा०भा०प्रे०के० की वेबसाइट पर उप्लब्ध 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 22nd 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: 23-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)	64729	45854	36747	21153	2628	171111
Peak Shortage (MW)	288	0	0	0	8	296
Energy Met (MU)	1439	1042	817	432	50	3780
Hydro Gen (MU)	306	100	149	128	27	710
Wind Gen (MU)	5	60	179	-	-	245
Solar Gen (MU)*	39.04	24.60	76.30	1.45	0.01	141
Energy Shortage (MU)	0.0	0.0	0.0	0.0	0.0	0.0
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	64759	46202	38159	21372	2668	171189
Time Of Maximum Demand Met (From NLDC SCADA)	22:18	18:56	09:51	19:42	18:57	19:20

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	0.020	0.00	0.00	1.71	1.71	84.75	13.54

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	11905	0	266.3	145.9	-2.1	39	0.0
	Haryana	9401	0	211.1	148.0	0.9	165	0.0
	Rajasthan	12161	0	267.3	84.0	0.1	409	0.0
	Delhi	6044	0	125.2	108.5	0.7	205	0.0
	UP	21847	0	439.1	202.2	0.2	598	0.0
	Uttarakhand	2076	0	43.7	23.9	-0.2	234	0.0
	HP	1480	0	32.1	6.4	-0.2	71	0.0
	J&K(UT) & Ladakh(UT)	2450	0	47.7	24.4	1.2	215	0.0
	Chandigarh	316	0	6.2	6.2	0.0	28	0.0
WR	Chhattisgarh	3472	0	78.6	14.4	5.7	213	0.0
	Gujarat	14091	0	314.7	83.1	0.4	422	0.0
	MP	9553	0	213.3	108.4	-3.1	338	0.0
	Maharashtra	17740	0	382.8	136.4	-3.1	492	0.0
	Goa	458	0	9.2	8.7	-0.1	48	0.0
	DD	329	0	7.3	7.0	0.3	44	0.0
	DNH	785	0	17.8	17.8	0.0	33	0.0
	AMNSIL	811	0	17.9	2.9	0.3	225	0.0
SR	Andhra Pradesh	7237	0	157.3	35.0	-0.2	547	0.0
	Telangana	7522	0	153.2	64.8	-1.2	383	0.0
	Karnataka	7402	0	145.5	25.8	-1.0	691	0.0
	Kerala	3127	0	62.2	33.7	-0.2	159	0.0
	Tamil Nadu	13567	0	291.3	132.9	-1.8	745	0.0
	Puducherry	406	0	7.8	7.9	-0.1	56	0.0
ER	Bihar	5085	0	92.2	90.3	-1.3	365	0.0
	DVC	2963	0	63.4	-42.9	-0.1	237	0.0
	Jharkhand	1550	0	26.9	19.4	-0.7	186	0.0
	Odisha	4676	0	92.1	19.9	0.6	470	0.0
	West Bengal	7782	0	156.4	52.7	1.1	522	0.0
	Sikkim	80	0	1.1	1.3	-0.2	10	0.0
NER	Arunachal Pradesh	121	0	2.2	2.3	-0.1	29	0.0
	Assam	1685	14	30.8	27.1	-0.2	133	0.0
	Manipur	179	0	2.7	2.5	0.2	19	0.0
	Meghalaya	325	0	5.8	0.9	-0.4	50	0.0
	Mizoram	87	0	1.7	1.2	0.1	42	0.0
	Nagaland	125	2	2.3	2.3	-0.2	7	0.0
	Tripura	243	4	4.3	6.5	-0.1	45	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	47.1	-2.4	-25.9
Day Peak (MW)	2128.0	-249.3	-1114.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	353.7	-304.6	68.1	-114.0	-3.2	0.0
Actual(MU)	360.8	-307.8	57.5	-109.0	-5.1	-3.6
O/D/U/D(MU)	7.1	-3.2	-10.6	5.1	-1.9	-3.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	3601	16666	12752	1925	525	35469
State Sector	6339	19358	18032	5455	112	49296
Total	9940	36024	30784	7380	637	84765

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	648	1076	230	430	8	2392
Lignite	31	11	20	0	0	62
Hydro	306	100	149	128	27	710
Nuclear	26	21	69	0	0	116
Gas, Naptha & Diesel	31	73	16	0	26	146
RES (Wind, Solar, Biomass & Others)	61	85	286	1	0	433
Total	1103	1366	769	559	61	3858

Share of RES in total generation (%)	5.50	6.24	37.13	0.26	0.02	11.22
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	35.66	15.11	65.45	23.15	43.80	32.64

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.012
Based on State Max Demands	1.046

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: 23-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	1001	0.0	24.6	-24.6
2	HVDC	PUSAULI B/B	-	0	297	0.0	7.3	-7.3
3	765 kV	GAYA-VARANASI	2	0	521	0.0	9.1	-9.1
4	765 kV	SASARAM-FATEHPUR	1	191	93	1.3	0.0	1.3
5	765 kV	GAYA-BALIA	1	0	542	0.0	10.4	-10.4
6	400 kV	PUSAULI-VARANASI	1	0	253	0.0	5.3	-5.3
7	400 kV	PUSAULI -ALLAHABAD	1	0	112	0.0	1.6	-1.6
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	829	0.0	14.4	-14.4
9	400 kV	PATNA-BALIA	4	0	1020	0.0	18.3	-18.3
10	400 kV	BIHARSHARIFF-BALIA	2	0	471	0.0	8.7	-8.7
11	400 kV	MOTIHARI-GORAKHPUR	2	0	320	0.0	5.2	-5.2
12	400 kV	BIHARSHARIFF-VARANASI	2	74	177	0.0	0.7	-0.7
13	220 kV	PUSAULI-SAHUPURI	1	54	117	0.0	1.8	-1.8
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	30	0	0.5	0.0	0.5
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	1.8	107.3	-105.5
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1041	89	9.6	0.0	9.6
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1274	0	18.8	0.0	18.8
3	765 kV	JHARSUGUDA-DURG	2	196	0	2.2	0.0	2.2
4	400 kV	JHARSUGUDA-RAIGARH	4	394	0	5.8	0.0	5.8
5	400 kV	RANCHI-SIPAT	2	589	0	9.0	0.0	9.0
6	220 kV	BUDHIPADAR-RAIGARH	1	0	84	0.0	1.0	-1.0
7	220 kV	BUDHIPADAR-KORBA	2	225	0	4.2	0.0	4.2
					ER-WR	49.5	1.0	48.5
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	645	0.0	14.1	-14.1
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1193	0.0	28.9	-28.9
3	765 kV	ANGUL-SRIKAKULAM	2	0	2434	0.0	35.2	-35.2
4	400 kV	TALCHER-I/C	2	514	472	0.0	0.4	-0.4
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	78.2	-78.2
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	354	0.0	3.5	-3.5
2	400 kV	ALIPURDUAR-BONGAIGAON	2	144	370	0.0	2.3	-2.3
3	220 kV	ALIPURDUAR-SALAKATI	2	0	106	0.0	1.4	-1.4
					ER-NER	0.0	7.1	-7.1
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	604	0.0	14.2	-14.2
					NER-NR	0.0	14.2	-14.2
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1753	0.0	60.8	-60.8
2	HVDC	VINDHYACHAL B/B	-	0	494	0.0	5.8	-5.8
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1916	0.0	41.1	-41.1
4	765 kV	GWALIOR-AGRA	2	0	2657	0.0	48.9	-48.9
5	765 kV	PHAGI-GWALIOR	2	0	990	0.0	19.5	-19.5
6	765 kV	JABALPUR-ORAI	2	0	1045	0.0	39.3	-39.3
7	765 kV	GWALIOR-ORAI	1	439	0	7.6	0.0	7.6
8	765 kV	SATNA-ORAI	1	0	1462	0.0	30.4	-30.4
9	765 kV	CHITORGARH-BANASKANTHA	2	0	1158	0.0	18.1	-18.1
10	400 kV	ZERDA-KANKROLI	1	0	200	0.0	2.4	-2.4
11	400 kV	ZERDA -BHINMAL	1	0	315	0.0	3.8	-3.8
12	400 kV	VINDHYACHAL -RIHAND	1	965	0	22.3	0.0	22.3
13	400 kV	RAPP-SHUJALPUR	2	0	456	0.0	7.5	-7.5
14	220 kV	BHANPURA-RANPUR	1	0	134	0.0	2.1	-2.1
15	220 kV	BHANPURA-MORAK	1	11	0	0.0	1.9	-1.9
16	220 kV	MEHGAON-AURAIYA	1	98	0	0.2	0.1	0.1
17	220 kV	MALANPUR-AURAIYA	1	46	25	1.1	0.0	1.1
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	31.3	281.6	-250.4
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	316	0.0	7.4	-7.4
2	HVDC	RAIGARH-PUGALUR	2	0	498	0.0	6.9	-6.9
3	765 kV	SOLAPUR-RAICHUR	2	1467	1508	5.6	0.0	5.6
4	765 kV	WARDHA-NIZAMABAD	2	41	1817	0.0	20.9	-20.9
5	400 kV	KOLHAPUR-KUDGI	2	1241	0	20.2	0.0	20.2
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	61	1.1	0.0	1.1
					WR-SR	26.9	35.1	-8.2

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 MANGDECHU HEP 4*180MW)	583	576	583	14.1
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1071	932	951	22.8
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	356	0	320	7.7
	NER	132KV-GEYLEGPHU - SALAKATI	56	45	-51	-1.2
	NER	132kV Motanga-Rangia	63	43	-51	-1.2
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-57	0	-24	-0.6
	ER	132KV-BIHAR - NEPAL	-14	0	-3	-0.1
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-178	-4	-72	-1.7
	ER	BHERAMARA HVDC(BANGLADESH)	-944	-931	-935	-22.4

BANGLADESH	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	86	0	-71	-1.7
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	84	0	-72	-1.7