



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:28th Sep 2021

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, 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 27.09.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 27-सितंबर-2021 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 27th September 2021, 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: 28-Sep-2021

A. Power Supply Position at All India and Regional level

	NR	WR	SR	ER	NER	TOTAL
Demand Met during Evening Peak hrs(MW) (at 20:00 hrs; from RLDCs)	55573	48714	39957	21889	2981	169114
Peak Shortage (MW)	270	0	0	88	0	358
Energy Met (MU)	1173	1105	897	486	58	3719
Hydro Gen (MU)	273	45	127	119	22	586
Wind Gen (MU)	11	36	176	-	-	224
Solar Gen (MU)*	54.13	26.31	65.26	4.31	0.31	150
Energy Shortage (MU)	6.29	0.06	0.00	0.69	0.00	7.03
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	55991	49635	41997	22323	3081	170461
Time Of Maximum Demand Met (From NLDC SCADA)	19:21	19:00	11:51	19:58	19:01	19:02

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	0.029	0.00	0.00	0.93	0.93	70.45	28.62

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	875.4	0	195.8	126.5	-0.5	154	0.00
	Haryana	7731	0	159.7	115.1	2.5	358	0.00
	Rajasthan	9230	0	200.4	52.6	-2.3	311	0.00
	Delhi	4877	0	102.6	91.7	-0.9	112	0.00
	UP	20053	0	388.3	147.1	-1.2	247	2.71
	Uttarakhand	1965	80	42.9	11.7	0.9	140	0.13
	HP	1457	0	30.7	1.1	-0.4	144	0.00
	J&K(UT) & Ladakh(UT)	2401	100	47.1	29.4	1.2	396	3.45
	Chandigarh	269	0	5.4	5.4	0.0	23	0.00
	Chhattisgarh	3808	0	87.5	44.7	0.5	247	0.00
WR	Gujarat	14369	0	314.0	187.9	3.1	571	0.00
	MP	9621	0	209.8	127.1	-0.8	472	0.00
	Maharashtra	20078	0	437.3	160.5	-2.9	633	0.00
	Goa	593	0	12.0	11.6	-0.2	43	0.06
	DD	332	0	7.4	7.0	0.4	53	0.00
	DNH	848	0	19.7	19.6	0.1	55	0.00
	AMNSIL	790	0	17.6	5.2	-1.0	171	0.00
SR	Andhra Pradesh	7525	0	164.5	44.6	-0.9	440	0.00
	Telangana	7962	0	163.3	17.0	-0.8	411	0.00
	Karnataka	10731	0	196.8	42.9	-0.4	812	0.00
	Kerala	3107	0	63.1	43.1	-0.5	250	0.00
	Tamil Nadu	14419	0	301.0	123.1	-2.5	592	0.00
	Puducherry	398	0	8.1	8.4	-0.3	60	0.00
ER	Bihar	6042	0	118.3	114.1	-0.6	395	0.51
	DVC	3079	0	66.1	-42.0	-1.3	193	0.00
	Jharkhand	1505	0	30.0	23.1	-0.9	124	0.18
	Odisha	4987	0	107.0	35.0	-0.2	540	0.00
	West Bengal	7972	0	163.5	53.7	0.0	386	0.00
	Sikkim	104	0	1.5	1.3	0.2	43	0.00
NER	Arunachal Pradesh	135	0	2.3	2.3	-0.1	35	0.00
	Assam	1987	0	37.9	31.0	-0.1	184	0.00
	Manipur	206	0	2.6	2.6	0.0	29	0.00
	Meghalaya	304	0	5.4	2.6	0.0	32	0.00
	Mizoram	112	0	1.5	0.9	0.0	30	0.00
	Nagaland	145	0	2.4	2.0	-0.1	16	0.00
	Tripura	307	0	5.5	5.0	0.7	107	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	38.9	0.7	-20.5
Day Peak (MW)	1833.0	-17.5	-864.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	207.7	-40.7	-68.6	-100.7	2.3	0.0
Actual(MU)	197.3	-27.7	-80.0	-94.3	1.1	-3.6
O/D/U/D(MU)	-10.4	13.0	-11.4	6.4	-1.2	-3.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4653	19946	7522	2975	559	35654	47
State Sector	9015	19575	7708	3755	11	40664	53
Total	13668	39520	15230	6730	570	75718	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	557	968	488	482	10	2505	66
Lignite	25	13	31	0	0	68	2
Hvdro	273	45	127	119	22	586	15
Nuclear	31	33	60	0	0	123	3
Gas, Naptha & Diesel	28	22	11	0	30	90	2
RES (Wind, Solar, Biomass & Others)	80	63	276	4	0	424	11
Total	994	1143	991	606	62	3797	100
Share of RES in total generation (%)	8.09	5.55	27.80	0.71	0.50	11.17	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	38.62	12.32	46.62	20.43	36.24	29.85	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.015
Based on State Max Demands	1.045

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: 28-Sep-2021

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	1102	0.0	26.8	-26.8	
2	HVDC	PUSAULI B/B	-	0	245	0.0	6.1	-6.1	
3	765 kV	GAYALYARANASI	2	402	84	4.7	0.0	4.7	
4	765 kV	SASARAM-FATEHPUR	1	169	74	1.8	0.0	1.8	
5	765 kV	GAYA-BALIA	1	0	481	0.0	8.1	-8.1	
6	400 kV	PUSAULI-VARANASI	1	0	186	0.0	3.9	-3.9	
7	400 kV	PUSAULI-ALLAHABAD	1	0	134	0.0	2.0	-2.0	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	417	0.0	6.9	-6.9	
9	400 kV	PATNA-BALIA	4	0	572	0.0	10.0	-10.0	
10	400 kV	BIHARSHARIFF-BALIA	2	82	80	0.0	0.5	-0.5	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	249	0.0	4.5	-4.5	
12	400 kV	BIHARSHARIFF-VARANASI	2	153	10	1.7	0.0	1.7	
13	220 kV	PUSAULI-SAHUPURI	1	47	43	0.0	0.2	-0.2	
14	132 kV	SONENAGAR-RIHAND	1	0	0	0.0	0.1	-0.1	
15	132 kV	GARWAH-RIHAND	1	20	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	0	0.0	0.0	0.0	
						ER-NR	8.6	69.1	-60.5
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	0	1271	0.0	14.6	-14.6	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1369	0	18.7	0.0	18.7	
3	765 kV	JHARSUGUDA-DURG	2	140	197	0.0	0.0	0.0	
4	400 kV	JHARSUGUDA-RAIGARH	4	19	481	0.0	4.5	-4.5	
5	400 kV	RANCHI-SIPAT	2	341	59	4.7	0.0	4.7	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	120	0.0	1.4	-1.4	
7	220 kV	BUDHIPADAR-KORBA	2	123	0	1.6	0.0	1.6	
						ER-WR	24.9	20.5	4.4
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	182	484	0.0	10.1	-10.1	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1341	0.0	32.4	-32.4	
3	765 kV	ANGUL-SRIKAKULAM	2	91	1379	0.0	17.7	-17.7	
4	400 kV	TALCHER-I/C	2	408	45	1.0	0.0	1.0	
5	220 kV	BALMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0	
						ER-SR	60.2	-60.2	
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	0	317	0.0	7.2	-7.2	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	475	0.0	6.4	-6.4	
3	220 kV	ALIPURDUAR-SALAKATI	2	0	147	0.0	2.2	-2.2	
						ER-NER	15.9	-15.9	
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	703	0.0	17.1	-17.1	
						NER-NR	17.1	-17.1	
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2005	0.0	32.1	-32.1	
2	HVDC	VINDHYACHAL B/B	-	185	105	4.2	0.0	4.2	
3	HVDC	MUNDRAL-MOHINDERGARH	2	0	249	0.0	5.8	-5.8	
4	765 kV	GWALIOR-AGRA	2	0	1805	0.0	31.0	-31.0	
5	765 kV	GWALIOR-PHAGI	2	0	1579	0.0	29.8	-29.8	
6	765 kV	JABALPUR-ORAI	2	0	867	0.0	28.3	-28.3	
7	765 kV	GWALIOR-ORAI	1	821	0	13.9	0.0	13.9	
8	765 kV	SATNA-ORAI	1	0	977	0.0	19.9	-19.9	
9	765 kV	BANASKANTHA-CHITORGARH	2	1419	0	25.9	0.0	25.9	
10	765 kV	VINDHYACHAL-VARANASI	2	0	3299	0.0	62.3	-62.3	
11	400 kV	ZERDA-KANKROLI	1	362	0	6.2	0.0	6.2	
12	400 kV	ZERDA -BHINMAL	1	678	0	10.2	0.0	10.2	
13	400 kV	VINDHYACHAL -RIHAND	1	963	0	21.6	0.0	21.6	
14	400 kV	RAPP-SHUALPUR	2	111	365	0.1	3.4	-3.3	
15	220 kV	BHANPURA-RANPUR	1	46	50	0.2	0.3	-0.1	
16	220 kV	BHANPURA-MORAK	1	0	30	0.7	0.0	0.7	
17	220 kV	MEHGAON-AURAIYA	1	127	0	0.8	0.0	0.8	
18	220 kV	MALANPUR-AURAIYA	1	90	0	1.7	0.0	1.7	
19	132 kV	GWALIOR-SAWAIMADHOPUR	1	0	0	0.0	0.0	0.0	
20	132 kV	RAJGHAT-LALITPUR	2	0	0	0.0	0.0	0.0	
						WR-NR	85.5	213.0	-127.4
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	990	573	2.2	0.0	2.2	
2	HVDC	RAIGARH-PUGALUR	2	2147	0	38.3	0.0	38.3	
3	765 kV	SOLAPUR-RAICHUR	2	2617	0	29.2	0.0	29.2	
4	765 kV	WARDHA-NIZAMABAD	2	1334	655	8.7	3.3	5.4	
5	400 kV	KOLHAPUR-KUDGI	2	1504	0	28.0	0.0	28.0	
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	76	1.2	0.0	1.2	
						WR-SR	107.4	3.3	104.2

INTERNATIONAL EXCHANGES				Import(+ve)/Export(-ve) Energy Exchange (MU)			
State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange (MU)	
BHUTAN	ER	400kV MANGDECHHU-ALIPURDUAR 1,2&3 i.e. ALIPURDUAR RECEIPT (from MANGDECHHU HEP 4*180MW)	679	0	538	12.9	
	ER	400kV TALA-BINAGURI 1,2,3 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	789	0	760	18.3	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	279	0	256	6.1	
	NER	132kV GELEPHU-SALAKATI	27	18	23	0.6	
	NER	132kV MOTANGA-RANGIA	58	27	46	1.1	
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-72	0	0	0.0	
	ER	NEPAL IMPORT (FROM BIHAR)	-10	0	-3	-0.1	
BANGLADESH	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	64	0	34	0.8	
	ER	BHERAMARA B/B HVDC (BANGLADESH)	-732	-722	-723	-17.3	
BANGLADESH	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-132	0	-131	-3.1	