



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 Jul 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 , 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 10.07.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 10-जुलाई-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 10th July 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-Jul-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)	57678	41124	35569	19810	2561	156742
Peak Shortage (MW)	294	0	0	0	255	549
Energy Met (MU)	1378	981	810	436	47	3652
Hydro Gen (MU)	365	28	69	129	31	622
Wind Gen (MU)	39	110	83	-	-	232
Solar Gen (MU)*	38.37	20.90	56.71	4.64	0.03	121
Energy Shortage (MU)	10.8	0.0	0.0	0.0	0.0	10.8
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	61509	41733	36802	20839	2583	157751
Time Of Maximum Demand Met (From NLDC SCADA)	00:00	09:20	10:58	00:08	20:15	21:16

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	0.024	0.00	0.00	1.65	1.65	78.66	19.69

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	11811	0	258.5	152.4	-3.1	208	0.0
	Haryana	9687	81	214.0	155.2	0.7	366	0.2
	Rajasthan	11553	0	254.2	79.7	-0.8	367	0.0
	Delhi	5740	0	116.1	101.7	-0.4	226	0.0
	UP	20988	0	413.6	206.2	0.0	450	0.4
	Uttarakhand	1933	0	41.9	19.2	1.0	196	0.0
	HP	1479	0	29.4	-3.3	-0.4	126	0.0
	J&K(UT) & Ladakh(UT)	2231	558	43.6	18.5	1.0	418	10.1
	Chandigarh	346	0	6.2	6.2	0.1	42	0.0
	Chhattisgarh	3840	0	93.8	33.3	0.5	174	0.0
WR	Gujarat	12753	0	276.2	85.8	0.4	408	0.0
	MP	9183	0	202.6	115.3	-1.4	372	0.0
	Maharashtra	16373	0	363.2	135.4	-1.3	776	0.0
	Goa	423	0	9.0	8.6	-0.1	40	0.0
	DD	250	0	5.3	5.1	0.2	30	0.0
	DNH	605	0	13.7	13.6	0.1	82	0.0
	AMNSIL	765	0	17.5	6.1	0.0	237	0.0
	Andhra Pradesh	7178	0	150.7	56.3	-0.1	508	0.0
SR	Telangana	8490	0	167.5	83.8	2.2	608	0.0
	Karnataka	8257	0	156.5	52.2	0.3	478	0.0
	Kerala	3077	0	62.9	47.6	0.8	191	0.0
	Tamil Nadu	12220	0	265.6	126.3	-3.8	518	0.0
	Puducherry	329	0	7.1	7.6	-0.5	26	0.0
ER	Bihar	5397	0	99.8	93.9	0.0	480	0.0
	DVC	3237	0	61.3	-44.7	0.6	200	0.0
	Jharkhand	1235	0	25.0	19.6	-3.0	80	0.0
	Odisha	4131	0	85.2	5.3	0.2	430	0.0
	West Bengal	7627	0	163.1	48.3	2.3	450	0.0
NER	Sikkim	84	0	1.2	1.2	0.1	20	0.0
	Arunachal Pradesh	119	1	2.0	2.0	0.0	44	0.0
	Assam	1613	214	28.6	24.5	-0.1	134	0.0
	Manipur	178	1	3.2	2.5	0.7	37	0.0
	Meghalaya	302	0	5.0	-0.9	-0.4	41	0.0
	Mizoram	93	1	1.6	1.4	0.0	9	0.0
	Nagaland	131	1	2.3	2.5	-0.2	33	0.0
	Tripura	283	2	4.5	5.9	-0.3	33	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	53.7	-4.7	-26.0
Day Peak (MW)	2345.0	-465.0	-1114.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	309.3	-284.0	116.0	-131.7	-9.5	0.0
Actual(MU)	314.9	-295.1	113.1	-123.6	-11.7	-2.3
O/D/U/D(MU)	5.7	-11.1	-2.9	8.2	-2.1	-2.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	4686	14769	10732	1920	546	32653
State Sector	8954	24446	13193	4842	47	51482
Total	13640	39215	23925	6762	593	84134

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	545	993	380	473	8	2399
Lignite	29	9	18	0	0	56
Hvdro	365	28	69	129	31	622
Nuclear	26	32	46	0	0	104
Gas, Naptha & Diesel	30	74	21	0	25	150
RES (Wind, Solar, Biomass & Others)	98	152	174	5	0	429
Total	1093	1289	707	607	65	3760
Share of RES in total generation (%)	8.99	11.82	24.62	0.76	0.05	11.42
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	44.76	16.51	40.80	22.07	48.54	30.74

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.036
Based on State Max Demands	1.103

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-Jul-2020

Sl No	Voltage Level	Line Details	Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)	
Import/Export of ER (With NR)									
1	HVDC	ALIPURDUAR-AGRA	D/C	0	1401	0.0	32.9	-32.9	
2	HVDC	PUSAULI B/B	-	0	398	0.0	9.7	-9.7	
3	765 kV	GAYA-VARANASI	D/C	0	880	0.0	12.4	-12.4	
4	765 kV	SASARAM-FATEHPUR	S/C	120	118	0.0	0.0	0.0	
5	765 kV	GAYA-BALIA	S/C	0	498	0.0	4.9	-4.9	
6	400 kV	PUSAULI-VARANASI	S/C	0	267	0.0	5.7	-5.7	
7	400 kV	PUSAULI-ALLAHABAD	S/C	0	201	0.0	3.7	-3.7	
8	400 kV	MUZAFFARPUR-GORAKHPUR	D/C	0	742	0.0	12.8	-12.8	
9	400 kV	PATNA-BALIA	O/C	0	958	0.0	14.8	-14.8	
10	400 kV	BIHARSHARIF-BALIA	D/C	0	360	0.0	6.2	-6.2	
11	400 kV	MOTIHARI-GORAKHPUR	D/C	0	352	0.0	5.0	-5.0	
12	400 kV	BIHARSHARIF-VARANASI	D/C	85	193	0.0	2.1	-2.1	
13	220 kV	PUSAULI-SAHUPURI	S/C	0	96	0.0	1.9	-1.9	
14	132 kV	SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0	
15	132 kV	GARWAH-RIHAND	S/C	30	0	0.2	0.0	0.2	
16	132 kV	KARMANASA-SAHUPURI	S/C	0	0	0.0	0.0	0.0	
17	132 kV	KARMANASA-CHANDAULI	S/C	0	0	0.0	0.0	0.0	
						ER-NR	0.2	111.9	-111.7
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	991	0	12.4	0.0	12.4	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	978	54	10.7	0.0	10.7	
3	765 kV	JHARSUGUDA-DURG	D/C	90	143	0.0	0.5	-0.5	
4	400 kV	JHARSUGUDA-RAIGARH	Q/C	53	246	0.0	1.9	-1.9	
5	400 kV	RANCHI-SIPAT	D/C	331	23	3.3	0.0	3.3	
6	220 kV	BUDHIPADAR-RAIGARH	S/C	0	107	0.0	1.5	-1.5	
7	220 kV	BUDHIPADAR-KORBA	D/C	166	0	2.7	0.0	2.7	
						ER-WR	29.1	3.9	25.2
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0	518	0.0	12.1	-12.1	
2	HVDC	TALCHER-KOLAR BIPOLE	D/C	0	1830	0.0	34.1	-34.1	
3	765 kV	ANGUL-SRIKAKULAM	D/C	0	2375	0.0	42.9	-42.9	
4	400 kV	TALCHER-J/C	D/C	932	139	11.0	0.0	11.0	
5	220 kV	BALMELA-UPPER-SILERU	S/C	1	0	0.0	0.0	0.0	
						ER-SR	0.0	89.1	-89.1
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	D/C	51	344	0.0	2.0	-2.0	
2	400 kV	ALIPURDUAR-BONGAIGAON	D/C	317	284	2.1	0.0	2.1	
3	220 kV	ALIPURDUAR-SALAKATI	D/C	24	93	0.0	0.6	-0.6	
						ER-NER	2.1	2.6	-0.4
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	D/C	0	604	0.0	14.6	-14.6	
						NER-NR	0.0	14.6	-14.6
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	D/C	0	1161	0.0	49.4	-49.4	
2	HVDC	VINDHYACHAL B/B	-	185	101	3.0	0.9	2.1	
3	HVDC	MUNDRAL-MOHINDERGARH	D/C	0	1640	0.0	41.1	-41.1	
4	765 kV	GWALIOR-AGRA	D/C	0	2746	0.0	43.3	-43.3	
5	765 kV	PHAGI-GWALIOR	D/C	0	1141	0.0	21.1	-21.1	
6	765 kV	JABALPUR-ORAI	D/C	0	1349	0.0	41.6	-41.6	
7	765 kV	GWALIOR-ORAI	S/C	372	178	2.0	0.0	2.0	
8	765 kV	SATNA-ORAI	S/C	0	1511	0.0	11.1	-11.1	
9	765 kV	CHITORGARH-BANASKANTHA	D/C	0	999	0.0	15.3	-15.3	
10	400 kV	ZERDA-KANKROLI	S/C	80	99	0.0	0.4	-0.4	
11	400 kV	ZERDA-BHINMAL	S/C	156	52	1.8	0.0	1.8	
12	400 kV	VINDHYACHAL-RIHAND	S/C	969	0	22.4	0.0	22.4	
13	400 kV	RAPP-SHUJALPUR	D/C	111	319	0.0	2.9	-2.9	
14	220 kV	BHANPURA-RANPUR	S/C	11	0	0.0	1.7	-1.7	
15	220 kV	BHANPURA-MORAK	S/C	0	126	0.0	1.9	-1.9	
16	220 kV	MEHGAON-AURAIYA	S/C	83	7	0.5	0.1	0.4	
17	220 kV	MALANPUR-AURAIYA	S/C	53	38	1.0	0.0	1.0	
18	132 kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
19	132 kV	RAJGHAT-LALITPUR	D/C	0	0	0.0	0.0	0.0	
						WR-NR	30.6	230.8	-200.1
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	992	0.0	19.0	-19.0	
2	HVDC	BARSUR-L-SILERU	-	0	0	0.0	0.0	0.0	
3	HVDC	HVDC-RAIGARH-PUGALUR	D/C	0	0	0.0	0.0	0.0	
4	765 kV	SOLAPUR-RAICHUR	D/C	0	1973	0.0	23.9	-23.9	
5	765 kV	WARDHA-NIZAMABAD	D/C	0	2234	0.0	34.3	-34.3	
6	400 kV	KOLHAPUR-KUDGI	D/C	598	11	6.1	0.0	6.1	
7	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0	
8	220 kV	PONDA-AMBEWADI	S/C	0	0	0.0	0.0	0.0	
9	220 kV	XELDEM-AMBEWADI	S/C	0	84	1.5	0.0	1.5	
						WR-SR	7.6	77.2	-69.6

INTERNATIONAL EXCHANGES

State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange (MU)
BHUTAN	ER	DAGACHU (2 * 63)	0	0	0	0.0
	ER	CHUKA (4 * 84) BIRPARA RECEIPT	350	344	320	7.7
	ER	MANGDECHHU (4 x 180) ALIPURDUAR RECEIPT	779	772	752	18.0
	ER	TALA (6 * 170) BINAGURI RECEIPT	1059	1049	1063	25.5
	NER	132KV-SALAKATI - GELEPHU	52	0	47	1.1
NEPAL	NER	132KV-RANGIA - DEOTHANG	65	0	54	1.3
	NR	132KV-Tanakpur(NH) - Mahendranagar(PG)	-58	0	-29	-0.7
	ER	132KV-BIHAR - NEPAL	-167	-1	-68	-1.6
BANGLADESH	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-240	-12	-99	-2.4
	ER	Bheramara HVDC(Bangladesh)	-958	-946	-949	-22.8
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	78	0	-68	-1.6
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	78	0	-66	-1.6