



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 Apr 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 27.04.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.5.5.1 के प्रावधान के अनुसार, दिनांक 27-अप्रैल-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 27th Apr 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: 28-Apr-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)	35055	37233	32803	14694	2016	121801
Peak Shortage (MW)	519	0	0	0	136	655
Energy Met (MU)	684	944	792	285	35	2739
Hydro Gen (MU)	202	44	68	54	5	374
Wind Gen (MU)	13	52	47	-	-	112
Solar Gen (MU)*	38.86	27.70	97.66	4.63	0.04	169
Energy Shortage (MU)	9.2	0.0	0.0	0.0	1.0	10.2
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	35899	41501	36366	14778	1952	125964
Time Of Maximum Demand Met (From NLDC SCADA)	19:58	15:25	14:31	20:37	19:32	22:21

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	2.84	2.84	71.42	25.74

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	4154	0	81.5	59.8	-1.7	85	0.0
	Haryana	4925	0	86.6	74.0	1.4	226	0.0
	Rajasthan	7845	0	165.4	60.2	-0.5	357	0.0
	Delhi	2641	0	51.2	45.7	-2.6	0	0.0
	UP	13723	0	222.1	99.2	-0.6	584	0.0
	Uttarakhand	1044	0	20.1	4.4	-0.4	105	0.0
	HP	845	0	14.0	-1.4	-2.0	401	0.0
	J&K(UT) & Ladakh(UT)	2078	519	40.8	27.1	-1.1	270	9.2
WR	Chandigarh	135	0	2.6	3.1	-0.5	1	0.0
	Chhattisgarh	2857	0	64.1	13.4	-0.3	256	0.0
	Gujarat	12787	0	286.2	80.5	4.7	812	0.0
	MP	7848	0	168.3	93.2	-1.7	329	0.0
	Maharashtra	18675	0	405.7	175.6	2.0	459	0.0
	Goa	456	0	9.7	9.5	-0.1	59	0.0
	DD	145	0	3.1	3.0	0.1	23	0.0
	DNH	211	0	4.7	4.7	0.0	33	0.0
SR	AMNSIL	344	0	2.1	2.0	0.1	133	0.0
	Andhra Pradesh	7383	0	150.9	69.4	0.4	392	0.0
	Telangana	6433	0	137.0	59.2	-1.1	366	0.0
	Karnataka	10188	0	201.7	57.1	0.4	521	0.0
	Kerala	3636	0	66.2	45.8	0.6	198	0.0
	Tamil Nadu	10172	0	230.9	168.4	-0.1	627	0.0
ER	Puducherry	278	0	5.2	5.6	-0.4	51	0.0
	Bihar	4155	0	71.9	72.3	-0.9	210	0.0
	DVC	3206	0	30.4	-17.8	1.5	416	0.0
	Jharkhand	1079	0	20.4	13.9	-1.8	147	0.0
	Odisha	3107	0	63.0	-9.2	0.3	250	0.0
NER	West Bengal	5004	0	97.7	33.1	1.4	211	0.0
	Sikkim	105	0	1.4	1.5	-0.2	37	0.0
	Arunachal Pradesh	109	1	2.0	1.0	0.8	125	0.0
	Assam	1147	101	19.6	16.2	0.3	122	0.8
	Manipur	172	1	2.3	2.3	0.0	32	0.0
	Meghalaya	249	0	4.1	2.4	-0.1	67	0.1
	Mizoram	98	1	1.6	1.3	0.2	14	0.0
Nagaland	110	1	2.0	1.9	-0.1	12	0.0	
Tripura	237	3	3.4	3.2	-0.9	24	0.0	

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	8.5	-0.5	-11.9
Day Peak (MW)	771.8	-118.3	-975.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	103.3	-154.3	134.4	-81.0	-2.3	0.1
Actual(MU)	75.9	-149.0	145.6	-72.5	-1.8	-1.9
O/D/U/D(MU)	-27.5	5.3	11.1	8.5	0.6	-2.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	7301	21206	8732	2230	712	40181
State Sector	20143	24093	14068	7932	11	66247
Total	27444	45298	22800	10162	723	106428

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	285	837	323	322	7	1773
Lignite	17	13	37	0	0	68
Hydro	202	44	68	54	5	374
Nuclear	24	36	51	0	0	112
Gas, Naptha & Diesel	20	63	20	0	28	132
RES (Wind, Solar, Biomass & Others)	82	94	162	5	0	343
Total	631	1088	660	381	41	2801

Share of RES in total generation (%)	12.97	8.66	24.55	1.22	0.10	12.24
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	48.91	16.09	42.47	15.47	13.53	29.58

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.036
Based on State Max Demands	1.092

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-Apr-2020

SI 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	-	0	0	0.0	0.0	0.0	
2	HVDC	PUSAULI B/B	S/C	0	248	0.0	6.0	-6.0	
3	765 kV	GAYA-VARANASI	D/C	203	421	0.0	0.8	-0.8	
4	765 kV	SASARAM-FATEHPUR	S/C	237	75	2.3	0.0	2.3	
5	765 kV	GAYA-BALIA	S/C	0	284	0.0	1.8	-1.8	
6	400 kV	PUSAULI-VARANASI	S/C	0	219	0.0	4.4	-4.4	
7	400 kV	PUSAULI-ALLAHABAD	S/C	0	118	0.0	1.4	-1.4	
8	400 kV	MUZAFFARPUR-GORAKHPUR	D/C	99	579	0.0	4.4	-4.4	
9	400 kV	PATNA-BALIA	Q/C	0	613	0.0	6.2	-6.2	
10	400 kV	BIHARSHARIFF-BALIA	D/C	31	277	0.0	2.4	-2.4	
11	400 kV	MOTIHARI-GORAKHPUR	D/C	0	202	0.0	2.7	-2.7	
12	400 kV	BIHARSHARIFF-VARANASI	D/C	224	140	1.8	0.0	1.8	
13	220 kV	PUSAULI-SAHUPURI	S/C	8	174	0.0	2.6	-2.6	
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	0.4	0.0	0.4	
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	4.5	32.7	-28.2
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1172	0	12.0	0.0	12.0	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	420	48	2.1	0.0	2.1	
3	765 kV	JHARSUGUDA-DURG	D/C	87	365	0.0	3.7	-3.7	
4	400 kV	JHARSUGUDA-RAIGARH	Q/C	205	116	0.5	0.0	0.5	
5	400 kV	RANCHI-SIPAT	D/C	302	36	2.5	0.0	2.5	
6	220 kV	BUDHIPADAR-RAIGARH	S/C	5	99	0.0	1.2	-1.2	
7	220 kV	BUDHIPADAR-KORBA	D/C	145	0	1.7	0.0	1.7	
						ER-WR	18.8	4.9	13.9
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0	645	0.0	8.4	-8.4	
2	HVDC	TALCHER-KOLAR BIPOLE	D/C	0	1985	0.0	48.0	-48.0	
3	765 kV	ANGUL-SRIKAKULAM	D/C	30900	2822	0.0	53.7	-53.7	
4	400 kV	TALCHER-I/C	D/C	0	1257	0.0	15.7	-15.7	
5	220 kV	BALIMELA-UPPER-SILERRU	S/C	1	0	0.0	0.0	0.0	
						ER-SR	0.0	110.1	-110.1
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	D/C	348	0	5.4	0.0	5.4	
2	400 kV	ALIPURDUAR-BONGAIGAON	D/C	459	0	6.8	0.0	6.8	
3	220 kV	ALIPURDUAR-SALAKATI	D/C	95	0	1.4	0.0	1.4	
						ER-NER	13.6	0.0	13.6
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	-	490	0	11.6	0.0	11.6	
						NER-NR	11.6	0.0	11.6
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	D/C	0	0	0.0	4.5	-4.5	
2	HVDC	V'CHAL B/B	D/C	445	0	12.1	0.0	12.1	
3	HVDC	APL -MHG	D/C	0	1127	0.0	27.9	-27.9	
4	765 kV	GWALIOR-AGRA	D/C	0	1738	0.0	28.9	-28.9	
5	765 kV	PHAGI-GWALIOR	D/C	0	884	0.0	13.5	-13.5	
6	765 kV	JABALPUR-ORAI	D/C	0	540	0.0	14.3	-14.3	
7	765 kV	GWALIOR-ORAI	S/C	485	0	9.1	0.0	9.1	
8	765 kV	SATNA-ORAI	S/C	0	1095	0.0	21.2	-21.2	
9	765 kV	CHITORGARH-BANASKANTHA	D/C	915	289	0.0	3.5	-3.5	
10	400 kV	ZERDA-KANKROLI	S/C	268	0	3.6	0.0	3.6	
11	400 kV	ZERDA -BHINMAL	S/C	360	50	3.6	0.0	3.6	
12	400 kV	V'CHAL -RIHAND	S/C	965	0	22.0	0.0	22.0	
13	400 kV	RAPP-SHUJALPUR	D/C	309	77	0.9	0.0	0.9	
14	220 kV	BHANPURA-RANPUR	S/C	56	42	0.0	0.6	-0.6	
15	220 kV	BHANPURA-MORAK	S/C	7	68	0.0	1.0	-1.0	
16	220 kV	MEHGAON-AURAIYA	S/C	79	0	1.1	0.0	1.1	
17	220 kV	MALANPUR-AURAIYA	S/C	63	0	0.8	0.0	0.8	
18	132 kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
						WR-NR	53.2	115.3	-62.1
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	515	0.0	12.2	-12.2	
2	HVDC	BARSUR-LSILERU	-	0	0	0.0	0.0	0.0	
3	765 kV	SOLAPUR-RAICHUR	D/C	260	2020	0.3	22.3	-22.0	
4	765 kV	WARDHA-NIZAMABAD	D/C	0	2131	0.0	37.2	-37.2	
5	400 kV	KOLHAPUR-KUDGI	D/C	303	222	1.6	1.0	0.6	
6	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0	
7	220 kV	PONDA-AMBEWADI	S/C	0	77	0.0	1.5	-1.5	
8	220 kV	XELDEM-AMBEWADI	S/C	0	61	1.2	0.0	1.2	
						WR-SR	3.0	74.1	-71.1

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	71	13	11	0.3
	ER	MANGDECHHU (4 x 180) ALIPURDUAR RECEIPT	316	207	187	4.5
	ER	TALA (6 * 170) BINAGURI RECEIPT	229	119	153	3.7
	NER	132KV-SALAKATI - GELEPHU	16	0	-7	-0.2
	NER	132KV-RANGIA - DEOTHANG	0	0	9	0.2
NEPAL	NR	132KV-Tanakpur(NH) - Mahendranagar(PG)	0	0	0	0.0
	ER	132KV-BIHAR - NEPAL	-32	-2	-6	-0.1
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-86	-2	-16	-0.4
BANGLADESH	ER	Bheramara HVDC(Bangladesh)	-852	-256	-405	-9.7
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	62	0	-45	-1.1
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	61	0	-45	-1.1