



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: 10<sup>th</sup> May 2019

To,

- कार्यकारी निदेशक, पू.क्षे.भा.प्रे.के., 14, गोल्फ क्लब रोड, कोलकाता - 700033  
Executive Director, ERLDC, 14 Golf Club Road, Tollygunge, Kolkata, 700033
- 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
- 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
- मुख्य महाप्रबंधक, ऊ. पू.क्षे.भा.प्रे.के., डोंगतेह, लोअर नोंग्रह, लापलंग, शिलोंग - 793006  
Chief General Manager, NERLDC, Dongteih, Lower Nongrah, Lapalang, Shillong - 793006, Meghalaya
- 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 09.05.2019.**

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 09-मई-2019 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 09<sup>th</sup> May 2019, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting

10-May-19

A. Power Supply Position at All India and Regional level

|   | NR             | WR             | SR             | ER             | NER           | Total           |
|---|----------------|----------------|----------------|----------------|---------------|-----------------|
| Demand Met during Evening Peak hrs(MW)<br>(at 2000 hrs; from RLDCs) | 54014          | 50416          | 44044          | 22000          | 2390          | 172864          |
| Peak Shortage (MW)  | 1195           | 0              | 30             | 0              | 121           | 1346            |
| Energy Met (MU)   | 1243           | 1224           | 1027           | 474            | 42            | 4009            |
| Hydro Gen (MU)  | 261            | 51             | 73             | 84             | 19            | 489             |
| Wind Gen (MU)   | 44             | 97             | 121            | -----          | -----         | 262             |
| Solar Gen (MU)*   | 26.79          | 25.7           | 87.76          | 2.05           | 0.03          | 142             |
| Energy Shortage (MU)  | 16.3           | 0.0            | 0.0            | 0.0            | 3.1           | 19.4            |
| Maximum Demand Met during the day<br>(MW) & time (from NLDC SCADA)  | 57225<br>23:22 | 53919<br>16:40 | 46096<br>14:43 | 22916<br>22:53 | 2472<br>18:53 | 178198<br>23:03 |

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 | 0.086 | 0.68  | 4.53      | 15.52     | 20.73 | 67.91      | 11.37   |

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            | 7611                                | 0                                   | 168.9           | 89.3                 | -1.7             | 43          | 0.0                  |
|        | Haryana           | 7956                                | 0                                   | 170.7           | 131.6                | -0.4             | 249         | 1.2                  |
|        | Rajasthan         | 10792                               | 0                                   | 242.0           | 82.2                 | -0.4             | 268         | 0.0                  |
|        | Delhi             | 5760                                | 0                                   | 117.1           | 100.3                | -1.0             | 160         | 0.1                  |
|        | UP                | 20441                               | 840                                 | 419.6           | 195.0                | 0.2              | 818         | 4.0                  |
|        | Uttarakhand       | 2084                                | 0                                   | 43.8            | 19.5                 | -0.1             | 146         | 0.0                  |
|        | HP                | 1332                                | 0                                   | 28.0            | 5.2                  | 0.7              | 136         | 0.0                  |
|        | J&K               | 2300                                | 575                                 | 47.2            | 26.5                 | 0.0              | 177         | 11.1                 |
| WR     | Chandigarh        | 282                                 | 0                                   | 5.4             | 6.1                  | -0.7             | 0           | 0.0                  |
|        | Chhattisgarh      | 4275                                | 0                                   | 97.0            | 48.6                 | -1.3             | 215         | 0.0                  |
|        | Gujarat           | 17232                               | 0                                   | 376.2           | 95.6                 | 4.6              | 794         | 0.0                  |
|        | MP                | 9401                                | 0                                   | 213.5           | 102.0                | 0.0              | 734         | 0.0                  |
|        | Maharashtra       | 22047                               | 0                                   | 496.2           | 141.3                | -0.3             | 468         | 0.0                  |
|        | Goa               | 541                                 | 0                                   | 10.7            | 11.3                 | -1.2             | 42          | 0.0                  |
|        | DD                | 329                                 | 0                                   | 7.2             | 7.0                  | 0.2              | 79          | 0.0                  |
|        | DNH               | 785                                 | 0                                   | 18.3            | 18.2                 | 0.1              | 60          | 0.0                  |
| SR     | Essar steel       | 245                                 | 0                                   | 4.9             | 5.7                  | -0.8             | 147         | 0.0                  |
|        | Andhra Pradesh    | 9601                                | 0                                   | 201.7           | 43.8                 | -0.7             | 407         | 0.0                  |
|        | Telangana         | 8013                                | 0                                   | 172.5           | 51.4                 | 2.0              | 421         | 0.0                  |
|        | Karnataka         | 11165                               | 0                                   | 228.3           | 57.1                 | -0.6             | 509         | 0.0                  |
|        | Kerala            | 3988                                | 0                                   | 83.1            | 57.1                 | 0.9              | 209         | 0.0                  |
|        | Tamil Nadu        | 14939                               | 0                                   | 332.9           | 141.6                | 1.8              | 980         | 0.0                  |
|        | Pondy             | 380                                 | 30                                  | 8.1             | 8.2                  | -0.1             | 52          | 0.0                  |
|        | Bihar             | 5460                                | 0                                   | 100.3           | 97.6                 | -0.1             | 400         | 0.0                  |
| ER     | DVC               | 3170                                | 0                                   | 67.9            | -51.1                | 0.3              | 300         | 0.0                  |
|        | Jharkhand         | 1249                                | 0                                   | 27.5            | 18.0                 | 0.0              | 170         | 0.0                  |
|        | Odisha            | 3966                                | 0                                   | 82.2            | 24.9                 | -0.3             | 350         | 0.0                  |
|        | West Bengal       | 9341                                | 0                                   | 194.6           | 61.9                 | 1.2              | 550         | 0.0                  |
|        | Sikkim            | 100                                 | 0                                   | 1.4             | 1.5                  | -0.1             | 25          | 0.0                  |
| NER    | Arunachal Pradesh | 112                                 | 1                                   | 2.2             | 2.5                  | -0.3             | 29          | 0.0                  |
|        | Assam             | 1442                                | 96                                  | 23.1            | 19.1                 | 0.2              | 158         | 3.0                  |
|        | Manipur           | 170                                 | 2                                   | 2.6             | 2.4                  | 0.3              | 22          | 0.0                  |
|        | Meghalaya         | 322                                 | 0                                   | 5.5             | 2.2                  | 0.1              | 70          | 0.0                  |
|        | Mizoram           | 93                                  | 1                                   | 1.6             | 1.5                  | 0.1              | 16          | 0.0                  |
|        | Nagaland          | 110                                 | 0                                   | 2.3             | 2.1                  | 0.1              | 17          | 0.0                  |
|        | Tripura           | 294                                 | 0                                   | 4.9             | 5.2                  | -0.3             | 60          | 0.0                  |

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

|               | Bhutan | Nepal  | Bangladesh |
|---------------|--------|--------|------------|
| Actual(MU)    | 12.5   | -11.1  | -26.7      |
| Day peak (MW) | 872.6  | -549.7 | -1135.0    |

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

|              | NR    | WR     | SR   | ER    | NER   | TOTAL |
|--------------|-------|--------|------|-------|-------|-------|
| Schedule(MU) | 283.6 | -293.0 | 89.7 | -70.2 | -9.9  | 0.1   |
| Actual(MU)   | 276.4 | -293.0 | 94.7 | -59.8 | -11.6 | 6.7   |
| O/D/U/D(MU)  | -7.2  | 0.1    | 5.0  | 10.4  | -1.7  | 6.6   |

F. Generation Outage(MW)

|                | NR    | WR    | SR    | ER   | NER | Total |
|----------------|-------|-------|-------|------|-----|-------|
| Central Sector | 4967  | 11234 | 9362  | 1350 | 354 | 27267 |
| State Sector   | 10105 | 14710 | 4230  | 2985 | 50  | 32080 |
| Total          | 15072 | 25944 | 13592 | 4335 | 403 | 59346 |

G. Sourcewise generation (MU)

|                                     | NR  | WR   | SR  | ER  | NER | All India |
|-------------------------------------|-----|------|-----|-----|-----|-----------|
| Coal                                | 556 | 1264 | 528 | 493 | 12  | 2851      |
| Lignite                             | 16  | 14   | 44  | 0   | 0   | 74        |
| Hydro                               | 261 | 51   | 73  | 84  | 19  | 489       |
| Nuclear                             | 28  | 31   | 37  | 0   | 0   | 95        |
| Gas, Naptha & Diesel                | 36  | 49   | 15  | 0   | 29  | 129       |
| RES (Wind, Solar, Biomass & Others) | 95  | 129  | 242 | 2   | 0   | 468       |
| Total                               | 991 | 1538 | 938 | 579 | 60  | 4107      |

|   |       |       |       |       |       |       |
|---|-------|-------|-------|-------|-------|-------|
| Share of RES in total generation (%)                                      | 9.56  | 8.41  | 25.77 | 0.36  | 0.05  | 11.40 |
| Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%) | 38.65 | 13.73 | 37.49 | 14.90 | 32.16 | 25.61 |

H. Diversity Factor

|                                   |       |
|-----------------------------------|-------|
| All India Demand Diversity Factor | 1.025 |
|-----------------------------------|-------|

Diversity factor = Sum of regional maximum demands / All India maximum demand

\*Source: RLDCs for solar connected to ISTS; SLDCs for embedded solar. Limited visibility of embedded solar data.

**INTER-REGIONAL EXCHANGES**

Date of Reporting : 10-May-19

Import=(+ve)  
/Export =(-ve) for  
NET (MU)

| Sl No                                 | Voltage Level       | Line Details                 | Circuit            | Max Import (MW) | Max Export (MW) | Import (MU) | Export (MU)  | NET (MU)      |     |
|---------------------------------------|---------------------|------------------------------|--------------------|-----------------|-----------------|-------------|--------------|---------------|-----|
| <b>Import/Export of ER (With NR)</b>  |                     |                              |                    |                 |                 |             |              |               |     |
| 1                                     | 765kV               | GAYA-VARANASI                | D/C                | 0               | 388             | 0.0         | 4.4          | -4.4          |     |
| 2                                     |                     | SASARAM-FATEHPUR             | S/C                | 75              | 256             | 0.0         | 1.5          | -1.5          |     |
| 3                                     |                     | GAYA-BALIA                   | S/C                | 0               | 338             | 0.0         | 6.0          | -6.0          |     |
| 4                                     |                     | ALIPURDUAR-AGRA              | -                  | 0               | 902             | 0.0         | 21.6         | -21.6         |     |
| 5                                     |                     | PUSAULI B/B                  | S/C                | 0               | 49              | 0.0         | 1.3          | -1.3          |     |
| 6                                     | 400 kV              | PUSAULI-VARANASI             | S/C                | 0               | 63              | 0.0         | 0.9          | -0.9          |     |
| 7                                     |                     | PUSAULI -ALLAHABAD           | S/C                | 4               | 50              | 0.0         | 0.2          | -0.2          |     |
| 8                                     |                     | MUZAFFARPUR-GORAKHPUR        | D/C                | 0               | 566             | 0.0         | 8.3          | -8.3          |     |
| 9                                     |                     | PATNA-BALIA                  | Q/C                | 0               | 751             | 0.0         | 14.3         | -14.3         |     |
| 10                                    |                     | BIHARSHARIFF-BALIA           | D/C                | 0               | 377             | 0.0         | 7.6          | -7.6          |     |
| 11                                    |                     | MOTIHARI-GORAKHPUR           | D/C                | 0               | 302             | 0.0         | 5.6          | -5.6          |     |
| 12                                    | 220 kV              | BIHARSHARIFF-VARANASI        | D/C                | 44              | 192             | 0.0         | 1.9          | -1.9          |     |
| 13                                    |                     | PUSAULI-SAHUPURI             | S/C                | 0               | 221             | 0.0         | 3.8          | -3.8          |     |
| 14                                    |                     | 132 kV                       | SONE NAGAR-RIHAND  | S/C             | 0               | 0           | 0.0          | 0.0           | 0.0 |
| 15                                    |                     |                              | GARWAH-RIHAND      | S/C             | 30              | 0           | 0.4          | 0.0           | 0.4 |
| 16                                    |                     |                              | KARMANASA-SAHUPURI | S/C             | 0               | 0           | 0.0          | 0.0           | 0.0 |
| 17                                    | KARMANASA-CHANDAULI |                              | S/C                | 0               | 0               | 0.0         | 0.0          | 0.0           |     |
| <b>ER-NR</b>                          |                     |                              |                    |                 |                 | <b>0.4</b>  | <b>77.4</b>  | <b>-77.0</b>  |     |
| <b>Import/Export of ER (With WR)</b>  |                     |                              |                    |                 |                 |             |              |               |     |
| 18                                    | 765 kV              | JHARSUGUDA-DHARAMJAIGARH S/C | D/C                | 1483            | 0               | 27.9        | 0.0          | 27.9          |     |
| 19                                    |                     | NEW RANCHI-DHARAMJAIGARH     | D/C                | 1032            | 0               | 18.5        | 0.0          | 18.5          |     |
| 20                                    |                     | JHARSUGUDA-DURG              | D/C                | 227             | 0               | 3.0         | 0.0          | 3.0           |     |
| 21                                    | 400 kV              | JHARSUGUDA-RAIGARH           | Q/C                | 246             | 10              | 2.8         | 0.0          | 2.8           |     |
| 22                                    |                     | RANCHI-SIPAT                 | D/C                | 333             | 0               | 5.8         | 0.0          | 5.8           |     |
| 23                                    | 220 kV              | BUDHIPADAR-RAIGARH           | S/C                | 0               | 91              | 0.0         | 1.3          | -1.3          |     |
| 24                                    |                     | BUDHIPADAR-KORBA             | D/C                | 133             | 0               | 2.5         | 0.0          | 2.5           |     |
| <b>ER-WR</b>                          |                     |                              |                    |                 |                 | <b>60.5</b> | <b>1.3</b>   | <b>59.2</b>   |     |
| <b>Import/Export of ER (With SR)</b>  |                     |                              |                    |                 |                 |             |              |               |     |
| 25                                    | 765 kV              | ANGUL-SRIKAKULAM             | D/C                | 0.0             | 1562.0          | 0.0         | 28.9         | -28.9         |     |
| 26                                    | HVDC                | JEYPORE-GAZUWAKA B/B         | D/C                | 0.0             | 687.0           | 0.0         | 16.0         | -16.0         |     |
| 27                                    | LINK                | TALCHER-KOLAR BIPOLE         | D/C                | 0.0             | 1979.0          | 0.0         | 41.9         | -41.9         |     |
| 28                                    | 400 kV              | TALCHER-I/C                  | D/C                | 104.0           | 442.0           | 0.0         | 2.1          | -2.1          |     |
| 29                                    | 220 kV              | BALIMELA-UPPER-SILERRU       | S/C                | 1.0             | 0.0             | 0.0         | 0.0          | 0.0           |     |
| <b>ER-SR</b>                          |                     |                              |                    |                 |                 | <b>0.0</b>  | <b>86.8</b>  | <b>-86.8</b>  |     |
| <b>Import/Export of ER (With NER)</b> |                     |                              |                    |                 |                 |             |              |               |     |
| 30                                    | 400 kV              | BINAGURI-BONGAIGAON          | D/C                | 0               | 399             | 0.0         | 4.0          | -4            |     |
| 31                                    |                     | ALIPURDUAR-BONGAIGAON        | D/C                | 419             | 0               | 6.7         | 0.0          | 7             |     |
| 32                                    | 220 kV              | ALIPURDUAR-SALAKATI          | D/C                | 31              | 32              | 0.2         | 0.0          | 0             |     |
| <b>ER-NER</b>                         |                     |                              |                    |                 |                 | <b>6.9</b>  | <b>4.0</b>   | <b>2.9</b>    |     |
| <b>Import/Export of NER (With NR)</b> |                     |                              |                    |                 |                 |             |              |               |     |
| 33                                    | HVDC                | BISWANATH CHARIALI-AGRA      | -                  | 0               | 400             | 0.0         | 9.3          | -9.3          |     |
| <b>NER-NR</b>                         |                     |                              |                    |                 |                 | <b>0.0</b>  | <b>9.3</b>   | <b>-9.3</b>   |     |
| <b>Import/Export of WR (With NR)</b>  |                     |                              |                    |                 |                 |             |              |               |     |
| 34                                    | HVDC                | CHAMPA-KURUKSHETRA           | D/C                | 0               | 1004            | 0.0         | 21.8         | -21.8         |     |
| 35                                    |                     | V'CHAL B/B                   | D/C                | 244             | 0               | 6.0         | 0.0          | 6.0           |     |
| 36                                    |                     | APL -MHG                     | D/C                | 0               | 1543            | 0.0         | 30.1         | -30.1         |     |
| 37                                    | 765 kV              | GWALIOR-AGRA                 | D/C                | 0               | 2595            | 0.0         | 52.4         | -52.4         |     |
| 38                                    |                     | PHAGI-GWALIOR                | D/C                | 0               | 1641            | 0.0         | 27.3         | -27.3         |     |
| 39                                    |                     | JABALPUR-ORAI                | D/C                | 0               | 979             | 0.0         | 38.7         | -38.7         |     |
| 40                                    |                     | GWALIOR-ORAI                 | S/C                | 468             | 0               | 8.6         | 0.0          | 8.6           |     |
| 41                                    |                     | SATNA-ORAI                   | S/C                | 0               | 1478            | 0.0         | 33.2         | -33.2         |     |
| 42                                    |                     | CHITORGARH-BANASKANTHA       | D/C                | 0               | 913             | 0.0         | 13.5         | 13.5          |     |
| 43                                    | 400 kV              | ZERDA-KANKROLI               | S/C                | 94              | 96              | 0.2         | 0.0          | 0.2           |     |
| 44                                    |                     | ZERDA -BHINMAL               | S/C                | 34              | 165             | 0.0         | 1.5          | -1.5          |     |
| 45                                    |                     | V'CHAL -RIHAND               | S/C                | 974             | 0               | 22.5        | 0.0          | 22.5          |     |
| 46                                    | 220 kV              | RAPP-SHUJALPUR               | D/C                | 0               | 400             | 0           | 3            | -3            |     |
| 47                                    |                     | BHANPURA-KOTA                | S/C                | 24              | 39              | 0.0         | 1.6          | -1.6          |     |
| 48                                    |                     | BHANPURA-MORAK               | S/C                | 0               | 149             | 0.0         | 2.4          | -2.4          |     |
| 49                                    |                     | MEHGAON-AURAIYA              | S/C                | 32              | 21              | 0.1         | 0.1          | 0.0           |     |
| 50                                    |                     | MALANPUR-AURAIYA             | S/C                | 0               | 51              | 0.0         | 0.8          | -0.8          |     |
| 51                                    | 132kV               | GWALIOR-SAWAI MADHOPUR       | S/C                | 0               | 0               | 0.0         | 0.0          | 0.0           |     |
| <b>WR-NR</b>                          |                     |                              |                    |                 |                 | <b>37.4</b> | <b>225.9</b> | <b>-161.5</b> |     |
| <b>Import/Export of WR (With SR)</b>  |                     |                              |                    |                 |                 |             |              |               |     |
| 52                                    | HVDC                | BHADRAWATI B/B               | -                  | 0               | 705             | 0.0         | 16.8         | -16.8         |     |
| 53                                    | LINK                | BARSUR-L.SILERU              | -                  | 0               | 0               | 0.0         | 0.0          | 0.0           |     |
| 54                                    | 765 kV              | SOLAPUR-RAICHUR              | D/C                | 345             | 1606            | 0.0         | 14.7         | -14.7         |     |
| 55                                    |                     | WARDHA-NIZAMABAD             | D/C                | 0               | 1792            | 0.0         | 20.4         | -20.4         |     |
| 56                                    | 400 kV              | KOLHAPUR-KUDGI               | D/C                | 607             | 116             | 5.6         | 0.0          | 5.6           |     |
| 57                                    | 220 kV              | KOLHAPUR-CHIKODI             | D/C                | 0               | 0               | 0.0         | 0.0          | 0.0           |     |
| 58                                    |                     | PONDA-AMBEWADI               | S/C                | 1               | 0               | 0.0         | 0.0          | 0.0           |     |
| 59                                    |                     | XELDEM-AMBEWADI              | S/C                | 0               | 63              | 1.2         | 0.0          | 1.2           |     |
| <b>WR-SR</b>                          |                     |                              |                    |                 |                 | <b>6.9</b>  | <b>51.9</b>  | <b>-45.1</b>  |     |
| <b>TRANSNATIONAL EXCHANGE</b>         |                     |                              |                    |                 |                 |             |              |               |     |
| 60                                    |                     | BHUTAN                       |                    |                 |                 |             |              | <b>12.5</b>   |     |
| 61                                    |                     | NEPAL                        |                    |                 |                 |             |              | <b>-11.1</b>  |     |
| 62                                    |                     | BANGLADESH                   |                    |                 |                 |             |              | <b>-26.7</b>  |     |