



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: 03<sup>rd</sup> Oct 2019

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., डोंगतेह, 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 02.10.2019.**

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 02-अक्टूबर-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 02<sup>nd</sup> Oct 2019, 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

3-Oct-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) | 44806          | 43295          | 37446          | 20317          | 2692          | 148556          |
| Peak Shortage (MW)  | 911            | 0              | 0              | 0              | 92            | 1003            |
| Energy Met (MU)   | 919            | 956            | 836            | 389            | 47            | 3147            |
| Hydro Gen (MU)  | 234            | 97             | 149            | 131            | 27            | 637             |
| Wind Gen (MU)   | 13             | 37             | 11             | -----          | -----         | 61              |
| Solar Gen (MU)*   | 29.07          | 21.7           | 71.67          | 2.16           | 0.03          | 125             |
| Energy Shortage (MU)  | 9.0            | 0.0            | 0.0            | 0.0            | 1.0           | 10.0            |
| Maximum Demand Met during the day<br>(MW) & time (from NLDC SCADA)  | 45120<br>19:20 | 44258<br>19:15 | 38869<br>18:51 | 20735<br>22:42 | 2699<br>18:12 | 150500<br>19:18 |

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 | 0.027 | 0.00  | 0.95      | 1.49      | 2.44  | 76.39      | 21.17   |

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            | 5852                                | 0                                   | 130.3           | 71.7                 | -0.7             | 86          | 0.0                  |
|             | Haryana           | 6900                                | 0                                   | 145.3           | 107.9                | 0.9              | 180         | 0.0                  |
|             | Rajasthan         | 8702                                | 0                                   | 187.7           | 60.7                 | -0.1             | 507         | 0.0                  |
|             | Delhi             | 3831                                | 0                                   | 79.5            | 63.9                 | -0.1             | 145         | 0.0                  |
|             | UP                | 14788                               | 340                                 | 281.4           | 129.7                | 0.9              | 546         | 0.0                  |
|             | Uttarakhand       | 1437                                | 0                                   | 30.1            | 10.1                 | -0.2             | 115         | 0.0                  |
|             | HP                | 1280                                | 0                                   | 23.9            | 3.5                  | 0.7              | 95          | 0.0                  |
|             | J&K               | 2284                                | 571                                 | 37.3            | 23.9                 | -2.3             | 250         | 9.0                  |
| WR          | Chandigarh        | 180                                 | 0                                   | 3.4             | 3.6                  | -0.2             | 23          | 0.0                  |
|             | Chhattisgarh      | 3635                                | 0                                   | 80.7            | 37.6                 | 0.1              | 366         | 0.0                  |
|             | Gujarat           | 12538                               | 0                                   | 275.0           | 57.3                 | 2.4              | 528         | 0.0                  |
|             | MP                | 7603                                | 0                                   | 154.3           | 63.7                 | -4.8             | 783         | 0.0                  |
|             | Maharashtra       | 18370                               | 0                                   | 405.2           | 172.4                | 1.2              | 453         | 0.0                  |
|             | Goa               | 541                                 | 0                                   | 12.1            | 10.7                 | 0.8              | 55          | 0.0                  |
|             | DD                | 289                                 | 0                                   | 6.3             | 6.0                  | 0.3              | 34          | 0.0                  |
|             | DNH               | 750                                 | 0                                   | 16.9            | 16.8                 | 0.1              | 66          | 0.0                  |
| SR          | Essar steel       | 320                                 | 0                                   | 5.8             | 5.7                  | 0.1              | 315         | 0.0                  |
|             | Andhra Pradesh    | 7831                                | 0                                   | 167.7           | 78.0                 | -0.7             | 357         | 0.0                  |
|             | Telangana         | 7706                                | 0                                   | 166.7           | 33.4                 | -1.4             | 243         | 0.0                  |
|             | Karnataka         | 7933                                | 0                                   | 157.0           | 38.1                 | 0.1              | 496         | 0.0                  |
|             | Kerala            | 3404                                | 0                                   | 67.4            | 42.8                 | 1.6              | 206         | 0.0                  |
|             | Tamil Nadu        | 12564                               | 0                                   | 270.5           | 129.4                | 0.7              | 495         | 0.0                  |
|             | Pondy             | 334                                 | 0                                   | 7.1             | 7.4                  | -0.3             | 36          | 0.0                  |
|             | ER                | Bihar                               | 4650                                | 0               | 76.2                 | 78.4             | -2.7        | 300                  |
| DVC         |                   | 2957                                | 0                                   | 60.2            | -3.1                 | 2.5              | 350         | 0.0                  |
| Jharkhand   |                   | 1252                                | 0                                   | 23.3            | 14.4                 | -0.1             | 50          | 0.0                  |
| Odisha      |                   | 3657                                | 0                                   | 78.4            | 9.2                  | 5.5              | 430         | 0.0                  |
| West Bengal |                   | 8036                                | 0                                   | 149.8           | 43.9                 | -0.3             | 400         | 0.0                  |
| Sikkim      |                   | 74                                  | 0                                   | 0.8             | 1.2                  | -0.5             | 0           | 0.0                  |
| NER         | Arunachal Pradesh | 121                                 | 3                                   | 2.1             | 2.5                  | -0.5             | 59          | 0.0                  |
|             | Assam             | 1682                                | 68                                  | 27.9            | 21.7                 | 0.7              | 159         | 0.9                  |
|             | Manipur           | 147                                 | 4                                   | 2.4             | 2.2                  | 0.2              | 18          | 0.0                  |
|             | Meghalaya         | 327                                 | 5                                   | 6.2             | 0.7                  | -0.2             | 44          | 0.0                  |
|             | Mizoram           | 92                                  | 2                                   | 1.8             | 0.4                  | 1.0              | 10          | 0.0                  |
|             | Nagaland          | 114                                 | 3                                   | 2.1             | 2.2                  | -0.3             | 9           | 0.0                  |
|             | Tripura           | 283                                 | 14                                  | 4.3             | 4.1                  | -0.9             | 30          | 0.0                  |

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

|               | Bhutan | Nepal  | Bangladesh |
|---------------|--------|--------|------------|
| Actual(MU)    | 43.1   | -1.1   | -22.5      |
| Day peak (MW) | 1827.2 | -182.0 | -1059.0    |

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

|              | NR    | WR     | SR   | ER    | NER  | TOTAL |
|--------------|-------|--------|------|-------|------|-------|
| Schedule(MU) | 188.1 | -198.5 | 70.8 | -52.1 | -8.2 | 0.0   |
| Actual(MU)   | 178.4 | -192.8 | 75.3 | -50.1 | -9.9 | 0.9   |
| O/D/U/D(MU)  | -9.7  | 5.7    | 4.5  | 2.1   | -1.8 | 0.9   |

F. Generation Outage(MW)

|                | NR    | WR    | SR    | ER   | NER | Total |
|----------------|-------|-------|-------|------|-----|-------|
| Central Sector | 5094  | 17025 | 9132  | 3780 | 347 | 35378 |
| State Sector   | 10866 | 21382 | 8703  | 6110 | 11  | 47072 |
| Total          | 15960 | 38406 | 17835 | 9890 | 358 | 82449 |

G. Sourcewise generation (MU)

|                                     | NR  | WR   | SR  | ER  | NER | All India |
|-------------------------------------|-----|------|-----|-----|-----|-----------|
| Coal                                | 408 | 875  | 386 | 325 | 7   | 2001      |
| Lignite                             | 15  | 13   | 46  | 0   | 0   | 74        |
| Hydro                               | 234 | 97   | 149 | 131 | 27  | 637       |
| Nuclear                             | 23  | 31   | 59  | 0   | 0   | 112       |
| Gas, Naptha & Diesel                | 25  | 59   | 16  | 0   | 27  | 127       |
| RES (Wind, Solar, Biomass & Others) | 55  | 65   | 114 | 2   | 0   | 236       |
| Total                               | 759 | 1140 | 769 | 458 | 61  | 3187      |

|   |       |       |       |       |       |       |
|---|-------|-------|-------|-------|-------|-------|
| Share of RES in total generation (%)                                      | 7.19  | 5.74  | 14.79 | 0.48  | 0.05  | 7.41  |
| Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%) | 41.01 | 16.91 | 41.78 | 29.06 | 44.12 | 30.92 |

H. Diversity Factor

|                                   |       |
|-----------------------------------|-------|
| All India Demand Diversity Factor | 1.008 |
|-----------------------------------|-------|

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 :                            | 3-Oct-19      |
|---------------------------------------|---------------|--------------------------|---------|-----------------|-----------------|---------------|-------------|--|---------------|
| Sl No                                 | Voltage Level | Line Details             | Circuit | Max Import (MW) | Max Export (MW) | Import (MU)   | Export (MU) | NET (MU)                                       |               |
|                                       |               |                          |         |                 |                 |               |             | Import=(+ve)<br>/Export =(-ve)<br>for NET (MU) |               |
| <b>Import/Export of ER (With NR)</b>  |               |                          |         |                 |                 |               |             |  |               |
| 1                                     | 765kV         | GAYA-VARANASI            | D/C     | 309             | 64              | 2.8           | 0.0         | 2.8  |               |
| 2                                     |               | SASARAM-FATEHPUR         | S/C     | 137             | 95              | 1.0           | 0.0         | 1.0  |               |
| 3                                     |               | GAYA-BALIA               | S/C     | 29              | 180             | 0.0           | 2.2         | -2.2   |               |
| 4                                     | HVDC          | ALIPURDUAR-AGRA          | -       | 0               | 1201            | 0.0           | 26.8        | -26.8  |               |
| 5                                     |               | PUSAULI B/B              | S/C     | 0               | 196             | 0.0           | 4.9         | -4.9   |               |
| 6                                     | 400 kV        | PUSAULI-VARANASI         | S/C     | 0               | 234             | 0.0           | 4.1         | -4.1   |               |
| 7                                     |               | PUSAULI -ALLAHABAD       | S/C     | 26              | 73              | 0.0           | 0.7         | -0.7   |               |
| 8                                     |               | MUZAFFARPUR-GORAKHPUR    | D/C     | 24              | 780             | 0.0           | 8.9         | -8.9   |               |
| 9                                     |               | PATNA-BALIA              | Q/C     | 0               | 644             | 0.0           | 9.6         | -9.6   |               |
| 10                                    |               | BIHARSHARIFF-BALIA       | D/C     | 86              | 141             | 0.0           | 1.2         | -1.2   |               |
| 11                                    |               | MOTIHARI-GORAKHPUR       | D/C     | 0               | 7               | 0.0           | 0.0         | 0.0  |               |
| 12                                    |               | BIHARSHARIFF-VARANASI    | D/C     | 247             | 16              | 3.2           | 0.0         | 3.2  |               |
| 13                                    | 220 kV        | PUSAULI-SAHUPURI         | S/C     | 2               | 121             | 0.0           | 2.0         | -2.0   |               |
| 14                                    | 132 kV        | SONE NAGAR-RIHAND        | S/C     | 0               | 0               | 0.0           | 0.0         | 0.0  |               |
| 15                                    |               | GARWAH-RIHAND            | S/C     | 30              | 0               | 0.5           | 0.0         | 0.5  |               |
| 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>7.5</b>  | <b>60.4</b>                                    | <b>-52.9</b>  |
| <b>Import/Export of ER (With WR)</b>  |               |                          |         |                 |                 |               |             |  |               |
| 18                                    | 765 kV        | JHARSUGUDA-DHARAMJAIGARH | Q/C     | 1601            | 0               | 27.7          | 0.0         | 27.7   |               |
| 19                                    |               | NEW RANCHI-DHARAMJAIGARH | D/C     | 755             | 0               | 11.4          | 0.0         | 11.4   |               |
| 20                                    |               | JHARSUGUDA-DURG          | D/C     | 214             | 11              | 3.2           | 0.0         | 3.2  |               |
| 21                                    | 400 kV        | JHARSUGUDA-RAIGARH       | Q/C     | 212             | 207             | 0.6           | 0.0         | 0.6  |               |
| 22                                    |               | RANCHI-SIPAT             | D/C     | 235             | 0               | 4.1           | 0.0         | 4.1  |               |
| 23                                    | 220 kV        | BUDHIPADAR-RAIGARH       | S/C     | 0               | 91              | 0.0           | 0.9         | -0.9   |               |
| 24                                    |               | BUDHIPADAR-KORBA         | D/C     | 84              | 0               | 1.3           | 0.0         | 1.3  |               |
|                                       |               |                          |         |                 |                 | <b>ER-WR</b>  | <b>48.3</b> | <b>0.9</b>                                     | <b>47.4</b>   |
| <b>Import/Export of ER (With SR)</b>  |               |                          |         |                 |                 |               |             |  |               |
| 25                                    | 765 kV        | ANGUL-SRIKAKULAM         | D/C     | 0.0             | 1947.0          | 0.0           | 39.7        | -39.7  |               |
| 26                                    | HVDC          | JEYPORE-GAZUWAKA B/B     | D/C     | 455.0           | 0.0             | 10.8          | 0.0         | 10.8   |               |
| 27                                    | LINK          | TALCHER-KOLAR BIPOLE     | D/C     | 0.0             | 1500.0          | 0.0           | 36.1        | -36.1  |               |
| 28                                    | 400 kV        | TALCHER-I/C              | D/C     | 0.0             | 752.0           | 0.0           | 14.2        | -14.2  |               |
| 29                                    | 220 kV        | BALIMELA-UPPER-SILERRU   | S/C     | 1.0             | 0.0             | 0.0           | 0.0         | 0.0  |               |
|                                       |               |                          |         |                 |                 | <b>ER-SR</b>  | <b>10.8</b> | <b>75.8</b>                                    | <b>-65.0</b>  |
| <b>Import/Export of ER (With NER)</b> |               |                          |         |                 |                 |               |             |  |               |
| 30                                    | 400 kV        | BINAGURI-BONGAIGAON      | D/C     | 0               | 535             | 0.0           | 5.4         | -5   |               |
| 31                                    |               | ALIPURDUAR-BONGAIGAON    | D/C     | 187             | 232             | 1.5           | 0.0         | 2  |               |
| 32                                    | 220 kV        | ALIPURDUAR-SALAKATI      | D/C     | 0               | 107             | 0.0           | 1.1         | -1   |               |
|                                       |               |                          |         |                 |                 | <b>ER-NER</b> | <b>1.5</b>  | <b>6.5</b>                                     | <b>-5.0</b>   |
| <b>Import/Export of NER (With NR)</b> |               |                          |         |                 |                 |               |             |  |               |
| 33                                    | HVDC          | BISWANATH CHARIALI-AGRA  | -       | 0               | 703             | 0.0           | 16.2        | -16.2  |               |
|                                       |               |                          |         |                 |                 | <b>NER-NR</b> | <b>0.0</b>  | <b>16.2</b>                                    | <b>-16.2</b>  |
| <b>Import/Export of WR (With NR)</b>  |               |                          |         |                 |                 |               |             |  |               |
| 34                                    | HVDC          | CHAMPA-KURUKSHETRA       | D/C     | 0               | 700             | 0.0           | 19.9        | -19.9  |               |
| 35                                    |               | V'CHAL B/B               | D/C     | 452             | 0               | 10.8          | 0.0         | 10.8   |               |
| 36                                    |               | APL -MHG                 | D/C     | 0               | 1365            | 0.0           | 28.4        | -28.4  |               |
| 37                                    | 765 kV        | GWALIOR-AGRA             | D/C     | 0               | 1569            | 0.0           | 26.2        | -26.2  |               |
| 38                                    |               | PHAGI-GWALIOR            | D/C     | 0               | 922             | 0.0           | 16.1        | -16.1  |               |
| 39                                    |               | JABALPUR-ORAI            | D/C     | 0               | 570             | 0.0           | 18.8        | -18.8  |               |
| 40                                    |               | GWALIOR-ORAI             | S/C     | 351             | 0               | 5.4           | 0.0         | 5.4  |               |
| 41                                    |               | SATNA-ORAI               | S/C     | 0               | 1214            | 0.0           | 25.3        | -25.3  |               |
| 42                                    |               | CHITTORGARH-BANASKANTHA  | D/C     | 0               | 785             | 0.0           | 10.6        | -10.6  |               |
| 43                                    |               | ZERDA-KANKROLI           | S/C     | 55              | 116             | 0.1           | 0.8         | -0.6   |               |
| 44                                    | 400 kV        | ZERDA -BHINMAL           | S/C     | 80              | 222             | 0.2           | 1.1         | -0.9   |               |
| 45                                    |               | V'CHAL -RIHAND           | S/C     | 971             | 0               | 22.5          | 0.0         | 22.5   |               |
| 46                                    | 220 kV        | RAPP-SHUJALPUR           | D/C     | 0               | 271             | 0             | 3           | -3   |               |
| 47                                    |               | BHANPURA-RANPUR          | S/C     | 37              | 50              | 0.1           | 0.4         | -0.3   |               |
| 48                                    |               | BHANPURA-MORAK           | S/C     | 0               | 64              | 0.0           | 1.0         | -1.0   |               |
| 49                                    |               | MEHGAON-AURAIYA          | S/C     | 69              | 0               | 1.0           | 0.0         | 1.0  |               |
| 50                                    |               | MALANPUR-AURAIYA         | S/C     | 43              | 5               | 0.3           | 0.0         | 0.3  |               |
| 51                                    | 132kV         | GWALIOR-SAWAI MADHOPUR   | S/C     | 0               | 0               | 0.0           | 0.0         | 0.0  |               |
|                                       |               |                          |         |                 |                 | <b>WR-NR</b>  | <b>40.4</b> | <b>151.7</b>                                   | <b>-111.3</b> |
| <b>Import/Export of WR (With SR)</b>  |               |                          |         |                 |                 |               |             |  |               |
| 52                                    | HVDC          | BHADRAWATI B/B           | -       | 0               | 211             | 0.0           | 4.9         | -4.9   |               |
| 53                                    | LINK          | BARSUR-L.SILERU          | -       | 0               | 0               | 0.0           | 0.0         | 0.0  |               |
| 54                                    | 765 kV        | SOLAPUR-RAICHUR          | D/C     | 343             | 955             | 0.3           | 11.6        | -11.4  |               |
| 55                                    |               | WARDHA-NIZAMABAD         | D/C     | 0               | 1583            | 0.0           | 30.0        | -30.0  |               |
| 56                                    | 400 kV        | KOLHAPUR-KUDGI           | D/C     | 755             | 0               | 13.1          | 0.0         | 13.1   |               |
| 57                                    | 220 kV        | KOLHAPUR-CHIKODI         | D/C     | 0               | 0               | 0.0           | 0.0         | 0.0  |               |
| 58                                    |               | PONDA-AMBEWADI           | S/C     | 0               | 59              | 0.0           | 1.2         | -1.2   |               |
| 59                                    |               | XELDEM-AMBEWADI          | S/C     | 0               | 37              | 0.7           | 0.0         | 0.7  |               |
|                                       |               |                          |         |                 |                 | <b>WR-SR</b>  | <b>14.1</b> | <b>47.7</b>                                    | <b>-33.6</b>  |
| <b>TRANSNATIONAL EXCHANGE</b>         |               |                          |         |                 |                 |               |             |  |               |
| 60                                    |               | BHUTAN                   |         |                 |                 |               |             | <b>43.1</b>                                    |               |
| 61                                    |               | NEPAL                    |         |                 |                 |               |             | <b>-1.1</b>                                    |               |
| 62                                    |               | BANGLADESH               |         |                 |                 |               |             | <b>-22.5</b>                                   |               |