



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)  
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बी-9, कुतुब इन्स्टीट्यूशनल एरिया, कटवारिया सराये, न्यू दिल्ली-110016

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 11<sup>th</sup> Oct 2018

To,

- कार्यकारी निदेशक, पू.क्षे.भा.प्रे.के., 14, गोल्फ क्लब रोड, कोलकाता - 700033  
Executive Director, ERLDC, 14 Golf Club Road, Tolleygunge, 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
- कार्यकारी निदेशक, ऊ.पू.क्षे.भा.प्रे.के., डोंगतिह, लोअर नोंग्रह, लापलंग, शिलोंग - 793006  
Executive Director, 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 10.10.2018.**

महोदय/Dear Sir,

आईईंजींसीं-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 10-अक्टूबर-2018 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रांभांप्रेंकें 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 10<sup>th</sup> October 2018, 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-Oct-18

A. Maximum Demand

|   | NR             | WR             | SR             | ER             | NER           | Total           |
|---|----------------|----------------|----------------|----------------|---------------|-----------------|
| Demand Met during Evening Peak hrs(MW)<br>(at 1900 hrs: from RLDCs) | 47561          | 53653          | 43538          | 20536          | 2501          | 167789          |
| Peak Shortage (MW)  | 1987           | 82             | 0              | 427            | 111           | 2607            |
| Energy Met (MU)   | 1093           | 1272           | 976            | 442            | 43            | 3827            |
| Hydro Gen (MU)  | 200            | 45             | 120            | 83             | 17            | 466             |
| Wind Gen (MU)   | 7              | 13             | 34             | -----          | -----         | 54              |
| Solar Gen (MU)*   | 19.32          | 20.1           | 59.48          | 0.59           | 0.03          | 100             |
| Energy Shortage (MU)  | 20.6           | 8.0            | 0.0            | 1.3            | 1.2           | 31.1            |
| Maximum Demand Met during the day<br>(MW) & time (from NLDC SCADA)  | 49475<br>18:46 | 56697<br>11:03 | 43642<br>18:48 | 20698<br>18:53 | 2488<br>18:18 | 170636<br>18:48 |

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 | 0.044 | 0.00  | 0.13      | 12.38     | 12.51 | 80.97      | 6.52    |

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            | 7146                                | 0                                   | 163.8           | 28.5                 | -0.3             | 116         | 0.0                  |
|             | Haryana           | 7751                                | 0                                   | 153.9           | 89.9                 | 4.6              | 425         | 0.0                  |
|             | Rajasthan         | 10486                               | 0                                   | 224.3           | 35.9                 | 3.8              | 454         | 0.0                  |
|             | Delhi             | 4559                                | 0                                   | 94.3            | 65.0                 | -0.1             | 235         | 0.0                  |
|             | UP                | 15900                               | 670                                 | 347.3           | 136.6                | 0.1              | 277         | 9.9                  |
|             | Uttarakhand       | 1772                                | 0                                   | 37.2            | 12.4                 | 0.8              | 122         | 1.1                  |
|             | HP                | 1430                                | 0                                   | 27.7            | 9.7                  | 2.1              | 263         | 0.0                  |
|             | J&K               | 2153                                | 538                                 | 40.5            | 33.1                 | -3.2             | 248         | 9.6                  |
| WR          | Chandigarh        | 206                                 | 0                                   | 3.9             | 3.8                  | 0.1              | 28          | 0.0                  |
|             | Chhattisgarh      | 4290                                | 0                                   | 101.2           | 35.5                 | -2.7             | 77          | 0.0                  |
|             | Gujarat           | 17326                               | 0                                   | 378.0           | 121.5                | 8.8              | 998         | 0.0                  |
|             | MP                | 10468                               | 0                                   | 232.9           | 114.9                | 0.4              | 575         | 0.0                  |
|             | Maharashtra       | 24826                               | 680                                 | 517.7           | 195.2                | 8.5              | 677         | 8.0                  |
|             | Goa               | 540                                 | 0                                   | 10.7            | 10.1                 | -0.1             | 43          | 0.0                  |
|             | DD                | 298                                 | 0                                   | 6.8             | 6.1                  | 0.7              | 74          | 0.0                  |
|             | DNH               | 780                                 | 0                                   | 18.2            | 17.0                 | 1.2              | 102         | 0.0                  |
| SR          | Essar steel       | 348                                 | 0                                   | 6.5             | 6.0                  | 0.5              | 311         | 0.0                  |
|             | Andhra Pradesh    | 8804                                | 0                                   | 190.5           | 62.6                 | 4.1              | 774         | 0.0                  |
|             | Telangana         | 10425                               | 0                                   | 228.0           | 120.4                | 3.5              | 656         | 0.0                  |
|             | Karnataka         | 9380                                | 0                                   | 197.4           | 28.8                 | 2.6              | 574         | 0.0                  |
|             | Kerala            | 3427                                | 0                                   | 68.2            | 39.0                 | 0.9              | 252         | 0.0                  |
|             | Tamil Nadu        | 13393                               | 0                                   | 285.2           | 135.7                | 0.6              | 541         | 0.0                  |
|             | Pondy             | 341                                 | 0                                   | 7.1             | 7.4                  | -0.2             | 46          | 0.0                  |
|             | ER                | Bihar                               | 5098                                | 0               | 94.2                 | 92.1             | -0.6        | 325                  |
| DVC         |                   | 2883                                | 0                                   | 61.2            | -20.9                | 1.4              | 498         | 1.1                  |
| Jharkhand   |                   | 1086                                | -43                                 | 24.8            | 16.9                 | 1.2              | 189         | 0.1                  |
| Odisha      |                   | 4947                                | 0                                   | 110.0           | 39.8                 | 0.5              | 365         | 0.0                  |
| West Bengal |                   | 7647                                | 0                                   | 150.5           | 34.8                 | 1.4              | 445         | 0.0                  |
| Sikkim      |                   | 96                                  | 0                                   | 1.3             | 1.2                  | 0.1              | -           | 0.0                  |
| NER         | Arunachal Pradesh | 118                                 | 1                                   | 2.2             | 2.1                  | 0.0              | -           | 0.0                  |
|             | Assam             | 1625                                | 54                                  | 27.2            | 21.1                 | 1.4              | 183         | 1.1                  |
|             | Manipur           | 157                                 | 2                                   | 2.4             | 2.3                  | 0.1              | 25          | 0.0                  |
|             | Meghalaya         | 272                                 | 0                                   | 4.6             | 3.0                  | -0.5             | 84          | 0.0                  |
|             | Mizoram           | 89                                  | 2                                   | 1.6             | 0.8                  | 0.4              | 11          | 0.0                  |
|             | Nagaland          | 113                                 | 1                                   | 2.3             | 1.8                  | 0.0              | 9           | 0.0                  |
|             | Tripura           | 247                                 | 2                                   | 3.1             | 3.4                  | -1.2             | -           | 0.1                  |

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

|               | Bhutan | Nepal  | Bangladesh |
|---------------|--------|--------|------------|
| Actual(MU)    | 13.1   | -2.9   | -20.3      |
| Day peak (MW) | 766.6  | -168.0 | -887.0     |

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

|              | NR    | WR     | SR   | ER    | NER  | TOTAL |
|--------------|-------|--------|------|-------|------|-------|
| Schedule(MU) | 106.5 | -114.3 | 67.6 | -56.8 | -1.4 | 1.6   |
| Actual(MU)   | 82.3  | -104.2 | 76.4 | -45.6 | -3.2 | 5.7   |
| OD/UD(MU)    | -24.2 | 10.1   | 8.8  | 11.3  | -1.8 | 4.1   |

F. Generation Outage(MW)

|                | NR   | WR    | SR    | ER   | NER | Total |
|----------------|------|-------|-------|------|-----|-------|
| Central Sector | 3519 | 13392 | 6722  | 1600 | 271 | 25504 |
| State Sector   | 6475 | 12224 | 7580  | 5495 | 50  | 31824 |
| Total          | 9994 | 25616 | 14302 | 7095 | 321 | 57327 |

G. Sourcewise generation (MU)

|                                     | NR   | WR   | SR  | ER  | NER | All India |
|-------------------------------------|------|------|-----|-----|-----|-----------|
| Thermal (Coal & Lignite)            | 685  | 1207 | 590 | 421 | 5   | 2909      |
| Hydro                               | 200  | 45   | 120 | 83  | 17  | 466       |
| Nuclear                             | 18   | 12   | 34  | 0   | 0   | 64        |
| Gas, Naptha & Diesel                | 70   | 90   | 24  | 0   | 29  | 213       |
| RES (Wind, Solar, Biomass & Others) | 44   | 34   | 136 | 1   | 0   | 214       |
| Total                               | 1017 | 1389 | 904 | 504 | 51  | 3866      |

|   |       |      |       |       |       |       |
|---|-------|------|-------|-------|-------|-------|
| Share of RES in total generation (%)                                      | 4.30  | 2.45 | 15.03 | 0.12  | 0.06  | 5.54  |
| Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%) | 25.76 | 6.53 | 32.11 | 16.58 | 33.97 | 19.25 |

H. Diversity Factor

|                                   |       |
|-----------------------------------|-------|
| All India Demand Diversity Factor | 1.014 |
|-----------------------------------|-------|

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 :                            | 11-Oct-18 |
|---------------------------------------|----------------|------------------------------|----------------|-----------------|-----------------|-------------|-------------|--|-----------|
| SI 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            | 335             | 14              | 3.5         | 0.0         | 3.5  |           |
| 2                                     |                | SASARAM-FATEHPUR             | S/C            | 395             | 0               | 7.0         | 0.0         | 7.0  |           |
| 3                                     |                | GAYA-BALIA                   | S/C            | 38              | 159             | 0.0         | 1.7         | -1.7   |           |
| 4                                     | HVDC           | ALIPURDUAR-AGRA              | -              | 0               | 1001            | 0.0         | 22.8        | -22.8  |           |
| 5                                     |                | PUSAULI B/B                  | S/C            | 0               | 397             | 0.0         | 9.7         | -9.7   |           |
| 6                                     | 400 kV         | PUSAULI-VARANASI             | S/C            | 0               | 323             | 0.0         | 7.1         | -7.1   |           |
| 7                                     |                | PUSAULI-ALLAHABAD            | S/C            | 0               | 133             | 0.0         | 2.5         | -2.5   |           |
| 8                                     |                | MUZAFFARPUR-GORAKHPUR        | D/C            | 276             | 185             | 0.4         | 0.0         | 0.4  |           |
| 9                                     |                | PATNA-BALIA                  | Q/C            | 0               | 505             | 0.0         | 8.2         | -8.2   |           |
| 10                                    |                | BIHARSHARIFF-BALIA           | D/C            | 113             | 53              | 0.0         | 0.2         | -0.2   |           |
| 11                                    |                | MOTIHARI-GORAKHPUR           | D/C            | 0               | 283             | 0.0         | 4.8         | -4.8   |           |
| 12                                    | 220 kV         | BIHARSHARIFF-VARANASI        | D/C            | 309             | 0               | 3.9         | 0.0         | 3.9  |           |
| 13                                    |                | PUSAULI-SAHUPURI             | S/C            | 0               | 203             | 0.0         | 4.2         | -4.2   |           |
| 14                                    |                | SONE NAGAR-RIHAND            | S/C            | 0               | 0               | 0.0         | 0.0         | 0.0  |           |
| 15                                    |                | GARWAH-RIHAND                | S/C            | 0               | 0               | 0.6         | 0.0         | 0.6  |           |
| 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>15.3</b> | <b>61.1</b> | <b>-45.8</b>                                   |           |
| <b>Import/Export of ER (With WR)</b>  |                |                              |                |                 |                 |             |             |  |           |
| 18                                    | 765 kV         | JHARSUGUDA-DHARAMJAIGARH S/C | D/C            | 1218            | 0               | 19.0        | 0.0         | 19.0   |           |
| 19                                    |                | NEW RANCHI-DHARAMJAIGARH     | D/C            | 516             | 138             | 3.5         | 0.0         | 3.5  |           |
| 20                                    | 400 kV         | JHARSUGUDA-RAIGARH           | Q/C            | 641             | 0               | 10.0        | 0.0         | 10.0   |           |
| 21                                    |                | RANCHI-SIPAT                 | D/C            | 321             | 0               | 4.9         | 0.0         | 4.9  |           |
| 22                                    | 220 kV         | BUDHIPADAR-RAIGARH           | S/C            | 0               | 2               | 0.0         | 0.0         | 0.0  |           |
| 23                                    |                | BUDHIPADAR-KORBA             | D/C            | 209             | 0               | 3.9         | 0.0         | 3.9  |           |
| <b>ER-WR</b>                          |                |                              |                |                 |                 | <b>41.3</b> | <b>0.0</b>  | <b>41.3</b>                                    |           |
| <b>Import/Export of ER (With SR)</b>  |                |                              |                |                 |                 |             |             |  |           |
| 24                                    | 765 kV         | ANGUL-SRIKAKULAM             | D/C            | 0.0             | 1959.0          | 0.0         | 31.0        | -31.0  |           |
| 25                                    | HVDC           | JEYPORE-GAZUWAKA B/B         | D/C            | 0.0             | 630.0           | 0.0         | 11.2        | -11.2  |           |
| 26                                    | LINK           | TALCHER-KOLAR BIPOLE         | D/C            | 0.0             | 2260.0          | 0.0         | 38.3        | -38.3  |           |
| 27                                    | 400 kV         | TALCHER-I/C                  | D/C            | 0.0             | 1023.0          | 0.0         | 0.7         | -0.7   |           |
| 28                                    | 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>80.5</b> | <b>-80.5</b>                                   |           |
| <b>Import/Export of ER (With NER)</b> |                |                              |                |                 |                 |             |             |  |           |
| 29                                    | 400 kV         | BINAGURI-BONGAIGAON          | D/C            | 0               | 617             | 0.0         | 9.8         | -10  |           |
| 30                                    |                | ALIPURDUAR-BONGAIGAON        | D/C            | 126             | 180             | 0.3         | 0.0         | 0  |           |
| 31                                    | 220 kV         | ALIPURDUAR-SALAKATI          | D/C            | 3               | 111             | 0.0         | 1.4         | -1   |           |
| <b>ER-NER</b>                         |                |                              |                |                 |                 | <b>0.3</b>  | <b>11.2</b> | <b>-11.0</b>                                   |           |
| <b>Import/Export of NER (With NR)</b> |                |                              |                |                 |                 |             |             |  |           |
| 32                                    | HVDC           | BISWANATH CHARIALI-AGRA      | -              | 0               | 703             | 0.0         | 15.6        | -15.6  |           |
| <b>NER-NR</b>                         |                |                              |                |                 |                 | <b>0.0</b>  | <b>15.6</b> | <b>-15.6</b>                                   |           |
| <b>Import/Export of WR (With NR)</b>  |                |                              |                |                 |                 |             |             |  |           |
| 33                                    | HVDC           | CHAMPA-KURUKSHETRA           | D/C            | 0               | 953             | 0.0         | 22.7        | -22.7  |           |
| 34                                    |                | V'CHAL B/B                   | D/C            | 240             | 0               | 6.0         | 0.0         | 6.0  |           |
| 35                                    |                | APL -MHG                     | D/C            | 0               | 594             | 0.0         | 14.6        | -14.6  |           |
| 36                                    | 765 kV         | GWALIOR-AGRA                 | D/C            | 0               | 491             | 0.0         | 15.0        | -15.0  |           |
| 37                                    |                | PHAGI-GWALIOR                | D/C            | 0               | 633             | 0.0         | 8.6         | -8.6   |           |
| 38                                    |                | JABALPUR-ORAI                | D/C            | 251             | 115             | 1.2         | 0.0         | 1.2  |           |
| 39                                    |                | GWALIOR-ORAI                 | S/C            | 328             | 0               | 0.0         | 6.2         | -6.2   |           |
| 40                                    |                | SATNA-ORAI                   | S/C            | 0               | 1394            | 0.0         | 30.1        | -30.1  |           |
| 41                                    |                | 400 kV                       | ZERDA-KANKROLI | S/C             | 455             | 0           | 9.1         | 0.0  | 9.1       |
| 42                                    | ZERDA -BHINMAL |                              | S/C            | 330             | 0               | 6.2         | 0.0         | 6.2  |           |
| 43                                    | V'CHAL -RIHAND |                              | S/C            | 489             | 0               | 11.6        | 0.0         | 11.6   |           |
| 44                                    | RAPP-SHUJALPUR |                              | D/C            | 418             | 0               | 3           | 0           | 3  |           |
| 45                                    | 220 kV         | BADOD-KOTA                   | S/C            | 109             | 0               | 2.6         | 0.0         | 2.6  |           |
| 46                                    |                | BADOD-MORAK                  | S/C            | 123             | 0               | 2.1         | 0.0         | 2.1  |           |
| 47                                    |                | MEHGAON-AURAIYA              | S/C            | 168             | 0               | 3.2         | 0.0         | 3.2  |           |
| 48                                    |                | MALANPUR-AURAIYA             | S/C            | 125             | 0               | 2.2         | 0.0         | 2.2  |           |
| 49                                    | 132kV          | GWALIOR-SAWAI MADHOPUR       | S/C            | 0               | 0               | 0.0         | 0.0         | 0.0  |           |
| <b>WR-NR</b>                          |                |                              |                |                 |                 | <b>47.5</b> | <b>97.1</b> | <b>-49.6</b>                                   |           |
| <b>Import/Export of WR (With SR)</b>  |                |                              |                |                 |                 |             |             |  |           |
| 50                                    | HVDC           | BHADRAWATI B/B               | -              | 0               | 1002            | 0.0         | 21.1        | -21.1  |           |
| 51                                    | LINK           | BARSUR-L.SILERU              | -              | 0               | 0               | 0.0         | 0.0         | 0.0  |           |
| 52                                    | 765 kV         | SOLAPUR-RAICHUR              | D/C            | 1146            | 1093            | 2.3         | 0.0         | 2.3  |           |
| 53                                    |                | WARDHA-NIZAMABAD             | D/C            | 0               | 2450            | 0.0         | 34.2        | -34.2  |           |
| 54                                    | 400 kV         | KOLHAPUR-KUDGI               | D/C            | 1100            | 0               | 19.4        | 0.0         | 19.4   |           |
| 55                                    | 220 kV         | KOLHAPUR-CHIKODI             | D/C            | 0               | 0               | 0.0         | 0.0         | 0.0  |           |
| 56                                    |                | PONDA-AMBEWADI               | S/C            | 2               | 0               | 0.0         | 0.0         | 0.0  |           |
| 57                                    |                | XELDEM-AMBEWADI              | S/C            | 0               | 64              | 1.3         | 0.0         | 1.3  |           |
| <b>WR-SR</b>                          |                |                              |                |                 |                 | <b>23.0</b> | <b>55.3</b> | <b>-32.3</b>                                   |           |
| <b>TRANSNATIONAL EXCHANGE</b>         |                |                              |                |                 |                 |             |             |  |           |
| 58                                    |                | BHUTAN                       |                |                 |                 |             |             | <b>13.1</b>                                    |           |
| 59                                    |                | NEPAL                        |                |                 |                 |             |             | <b>-2.9</b>                                    |           |
| 60                                    |                | BANGLADESH                   |                |                 |                 |             |             | <b>-20.3</b>                                   |           |