



**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: 01<sup>st</sup> Dec 2018

To,

1. कार्यकारी निदेशक, पू.क्षे.भा.प्रे.के., 14, गोल्फ क्लब रोड, कोलकाता - 700033  
Executive Director, ERLDC, 14 Golf Club Road, Tolleygunge, 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 30.11.2018.**

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 30-नवंबर-2018 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 30<sup>th</sup> November 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

1-Dec-18

A. Maximum Demand

|   | NR             | WR             | SR             | ER             | NER           | Total           |
|---|----------------|----------------|----------------|----------------|---------------|-----------------|
| Demand Met during Evening Peak hrs(MW)<br>(at 1900 hrs; from RLDCs) | 42642          | 48488          | 40672          | 18224          | 2439          | 152465          |
| Peak Shortage (MW)  | 519            | 0              | 0              | 290            | 37            | 846             |
| Energy Met (MU)   | 919            | 1143           | 899            | 363            | 44            | 3368            |
| Hydro Gen (MU)  | 120            | 23             | 71             | 37             | 8             | 260             |
| Wind Gen (MU)   | 5              | 38             | 34             | -----          | -----         | 78              |
| Solar Gen (MU)*   | 19.53          | 17.91          | 65.07          | 0.81           | 0.04          | 103             |
| Energy Shortage (MU)  | 11.2           | 1.2            | 0.0            | 0.9            | 0.7           | 13.9            |
| Maximum Demand Met during the day<br>(MW) & time (from NLDC SCADA)  | 42749<br>18:23 | 53846<br>10:31 | 41192<br>07:26 | 18493<br>18:42 | 2480<br>18:13 | 154252<br>18:22 |

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 | 0.076 | 0.00  | 2.01      | 21.50     | 23.52 | 69.97      | 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            | 5542                                | 0                                   | 123.5           | 32.3                 | 0.3              | 144         | 0.0                  |
|        | Haryana           | 6406                                | 0                                   | 124.7           | 62.5                 | 2.9              | 303         | 0.3                  |
|        | Rajasthan         | 11741                               | 0                                   | 230.8           | 69.4                 | 5.3              | 549         | 0.0                  |
|        | Delhi             | 3571                                | 0                                   | 64.2            | 45.2                 | 0.4              | 173         | 0.0                  |
|        | UP                | 12532                               | 0                                   | 263.5           | 106.3                | -1.3             | 175         | 0.0                  |
|        | Uttarakhand       | 1860                                | 0                                   | 35.5            | 22.7                 | 1.2              | 196         | 0.2                  |
|        | HP                | 1538                                | 0                                   | 28.6            | 19.9                 | 0.7              | 179         | 0.0                  |
| WR     | J&K               | 2178                                | 545                                 | 45.2            | 36.8                 | 0.6              | 219         | 10.7                 |
|        | Chandigarh        | 199                                 | 0                                   | 3.4             | 3.2                  | 0.2              | 48          | 0.0                  |
|        | Chhattisgarh      | 3587                                | 0                                   | 76.5            | 9.4                  | 1.3              | 486         | 1.2                  |
|        | Gujarat           | 15186                               | 0                                   | 331.4           | 118.5                | 3.2              | 635         | 0.0                  |
|        | MP                | 13192                               | 0                                   | 259.0           | 146.8                | -2.0             | 366         | 0.0                  |
|        | Maharashtra       | 21041                               | 0                                   | 431.3           | 111.6                | 0.5              | 442         | 0.0                  |
|        | Goa               | 480                                 | 0                                   | 9.9             | 9.0                  | 0.6              | 50          | 0.0                  |
|        | DD                | 317                                 | 0                                   | 7.0             | 6.2                  | 0.7              | 77          | 0.0                  |
|        | DNH               | 683                                 | 0                                   | 16.0            | 15.2                 | 0.8              | 82          | 0.0                  |
|        | Essar steel       | 568                                 | 0                                   | 12.0            | 11.9                 | 0.1              | 107         | 0.0                  |
| SR     | Andhra Pradesh    | 8137                                | 0                                   | 174.7           | 68.0                 | 0.4              | 487         | 0.0                  |
|        | Telangana         | 7977                                | 0                                   | 167.7           | 71.3                 | 2.2              | 452         | 0.0                  |
|        | Karnataka         | 11171                               | 0                                   | 211.3           | 76.9                 | -1.0             | 385         | 0.0                  |
|        | Kerala            | 3683                                | 0                                   | 71.2            | 58.1                 | 0.6              | 317         | 0.0                  |
|        | Tamil Nadu        | 13164                               | 0                                   | 267.2           | 120.8                | 0.3              | 450         | 0.0                  |
|        | Pondy             | 321                                 | 0                                   | 6.6             | 7.1                  | -0.5             | 43          | 0.0                  |
| ER     | Bihar             | 4026                                | 0                                   | 73.3            | 69.4                 | 1.2              | 460         | 0.0                  |
|        | DVC               | 2736                                | 0                                   | 58.8            | -30.8                | 1.6              | 396         | 0.0                  |
|        | Jharkhand         | 1036                                | 0                                   | 24.1            | 14.0                 | -0.4             | 169         | 0.4                  |
|        | Odisha            | 4375                                | 150                                 | 85.6            | 39.1                 | 2.0              | 267         | 0.5                  |
|        | West Bengal       | 6525                                | 0                                   | 119.8           | 22.8                 | 0.2              | 309         | 0.0                  |
| NER    | Sikkim            | 100                                 | 0                                   | 1.4             | 1.6                  | -0.2             | 18          | 0.0                  |
|        | Arunachal Pradesh | 123                                 | 5                                   | 2.1             | 1.9                  | 0.3              | 123         | 0.0                  |
|        | Assam             | 1445                                | 26                                  | 23.7            | 18.1                 | 0.9              | 127         | 0.4                  |
|        | Manipur           | 163                                 | 3                                   | 2.6             | 2.6                  | 0.0              | 22          | 0.0                  |
|        | Meghalaya         | 351                                 | 7                                   | 6.5             | 4.6                  | 0.0              | 35          | 0.0                  |
|        | Mizoram           | 92                                  | 6                                   | 2.0             | 0.8                  | 0.5              | 33          | 0.1                  |
|        | Nagaland          | 125                                 | 8                                   | 2.2             | 1.6                  | 0.4              | 26          | 0.0                  |
|        | Tripura           | 224                                 | 1                                   | 4.4             | 1.4                  | 0.5              | 71          | 0.1                  |

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

|               | Bhutan | Nepal  | Bangladesh |
|---------------|--------|--------|------------|
| Actual(MU)    | 4.9    | -2.9   | -11.3      |
| Day peak (MW) | 304.3  | -140.0 | -567.0     |

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

|              | NR    | WR     | SR   | ER    | NER | TOTAL |
|--------------|-------|--------|------|-------|-----|-------|
| Schedule(MU) | 146.4 | -171.2 | 91.3 | -71.1 | 4.6 | 0.2   |
| Actual(MU)   | 146.8 | -175.4 | 87.5 | -68.9 | 6.4 | -3.7  |
| O/D/U/D(MU)  | 0.4   | -4.3   | -3.8 | 2.1   | 1.7 | -3.8  |

F. Generation Outage(MW)

|                | NR    | WR    | SR    | ER   | NER | Total |
|----------------|-------|-------|-------|------|-----|-------|
| Central Sector | 4464  | 16940 | 7592  | 1760 | 469 | 31225 |
| State Sector   | 11735 | 14075 | 8470  | 5455 | 50  | 39785 |
| Total          | 16199 | 31015 | 16062 | 7215 | 519 | 71010 |

G. Sourcewise generation (MU)

|                                     | NR  | WR   | SR  | ER  | NER | All India |
|-------------------------------------|-----|------|-----|-----|-----|-----------|
| Coal                                | 531 | 1172 | 496 | 408 | 10  | 2615      |
| Lignite                             | 24  | 16   | 54  | 0   | 0   | 93        |
| Hydro                               | 120 | 23   | 71  | 37  | 8   | 260       |
| Nuclear                             | 25  | 19   | 36  | 0   | 0   | 80        |
| Gas, Naptha & Diesel                | 33  | 41   | 24  | 0   | 23  | 120       |
| RES (Wind, Solar, Biomass & Others) | 61  | 59   | 137 | 1   | 0   | 257       |
| Total                               | 793 | 1329 | 818 | 445 | 41  | 3426      |

|   |       |      |       |      |       |       |
|---|-------|------|-------|------|-------|-------|
| Share of RES in total generation (%)                                      | 7.66  | 4.42 | 16.74 | 0.19 | 0.10  | 7.51  |
| Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%) | 25.91 | 7.60 | 29.88 | 8.50 | 20.44 | 17.42 |

H. Diversity Factor

|                                   |       |
|-----------------------------------|-------|
| All India Demand Diversity Factor | 1.029 |
|-----------------------------------|-------|

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 : 1-Dec-18

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               | 405             | 0.0           | 6.4         | -6.4         |              |
| 2                                     |                | SASARAM-FATEHPUR             | S/C            | 0               | 213             | 0.0           | 3.0         | -3.0         |              |
| 3                                     |                | GAYA-BALIA                   | S/C            | 0               | 261             | 0.0           | 4.9         | -4.9         |              |
| 4                                     |                | ALIPURDUAR-AGRA              | -              | 0               | 200             | 0.0           | 5.1         | -5.1         |              |
| 5                                     | HVDC           | PUSAULI B/B                  | S/C            | 3               | 0               | 0.0           | 0.0         | 0.0          |              |
| 6                                     | 400 kV         | PUSAULI-VARANASI             | S/C            | 83              | 10              | 0.7           | 0.0         | 0.7          |              |
| 7                                     |                | PUSAULI -ALLAHABAD           | S/C            | 108             | 11              | 0.6           | 0.0         | 0.6          |              |
| 8                                     |                | MUZAFFARPUR-GORAKHPUR        | D/C            | 167             | 272             | 0.0           | 1.2         | -1.2         |              |
| 9                                     |                | PATNA-BALIA                  | Q/C            | 0               | 486             | 0.0           | 8.7         | -8.7         |              |
| 10                                    |                | BIHARSHARIFF-BALIA           | D/C            | 0               | 92              | 0.0           | 3.2         | -3.2         |              |
| 11                                    |                | MOTIHARI-GORAKHPUR           | D/C            | 0               | 240             | 0.0           | 4.6         | -4.6         |              |
| 12                                    | 220 kV         | BIHARSHARIFF-VARANASI        | D/C            | 144             | 69              | 0.1           | 0.0         | 0.1          |              |
| 13                                    |                | PUSAULI-SAHUPURI             | S/C            | 0               | 153             | 0.0           | 2.5         | -2.5         |              |
| 14                                    |                | SONE NAGAR-RIHAND            | S/C            | 0               | 0               | 0.0           | 0.0         | 0.0          |              |
| 15                                    |                | 132 kV                       | GARWAH-RIHAND  | S/C             | 25              | 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>2.0</b>  | <b>39.6</b>  | <b>-37.6</b> |
| <b>Import/Export of ER (With WR)</b>  |                |                              |                |                 |                 |               |             |              |              |
| 18                                    | 765 kV         | JHARSUGUDA-DHARAMJAIGARH S/C | D/C            | 1422            | 0               | 20.3          | 0.0         | 20.3         |              |
| 19                                    |                | NEW RANCHI-DHARAMJAIGARH     | D/C            | 347             | 350             | 0.6           | 0.0         | 0.6          |              |
| 20                                    | 400 kV         | JHARSUGUDA-RAIGARH           | Q/C            | 246             | 102             | 1.4           | 0.0         | 1.4          |              |
| 21                                    |                | RANCHI-SIPAT                 | D/C            | 230             | 0               | 2.9           | 0.0         | 2.9          |              |
| 22                                    | 220 kV         | BUDHIPADAR-RAIGARH           | S/C            | 14              | 74              | 0.0           | 0.7         | -0.7         |              |
| 23                                    |                | BUDHIPADAR-KORBA             | D/C            | 217             | 0               | 3.5           | 0.0         | 3.5          |              |
|                                       |                |                              |                |                 |                 | <b>ER-WR</b>  | <b>28.6</b> | <b>0.7</b>   | <b>27.9</b>  |
| <b>Import/Export of ER (With SR)</b>  |                |                              |                |                 |                 |               |             |              |              |
| 24                                    | 765 kV         | ANGUL-SRIKAKULAM             | D/C            | 0.0             | 1646.0          | 0.0           | 27.8        | -27.8        |              |
| 25                                    | HVDC           | JEYPORE-GAZUWAKA B/B         | D/C            | 0.0             | 610.0           | 0.0           | 14.6        | -14.6        |              |
| 26                                    | LINK           | TALCHER-KOLAR BIPOLE         | D/C            | 0.0             | 1979.0          | 0.0           | 40.7        | -40.7        |              |
| 27                                    | 400 kV         | TALCHER-I/C                  | D/C            | 0.0             | 599.0           | 4.0           | 0.0         | 4.0          |              |
| 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>83.1</b>  | <b>-83.1</b> |
| <b>Import/Export of ER (With NER)</b> |                |                              |                |                 |                 |               |             |              |              |
| 29                                    | 400 kV         | BINAGURI-BONGAIGAON          | D/C            | 0               | 565             | 0.0           | 10.2        | -10          |              |
| 30                                    |                | ALIPURDUAR-BONGAIGAON        | D/C            | 0               | 518             | 0.0           | 7.2         | -7           |              |
| 31                                    | 220 kV         | ALIPURDUAR-SALAKATI          | D/C            | 0               | 172             | 0.0           | 2.7         | -3           |              |
|                                       |                |                              |                |                 |                 | <b>ER-NER</b> | <b>0.0</b>  | <b>20.1</b>  | <b>-20.1</b> |
| <b>Import/Export of NER (With NR)</b> |                |                              |                |                 |                 |               |             |              |              |
| 32                                    | HVDC           | BISWANATH CHARIALI-AGRA      | -              | 0               | 703             | 0.0           | 13.8        | -13.8        |              |
|                                       |                |                              |                |                 |                 | <b>NER-NR</b> | <b>0.0</b>  | <b>13.8</b>  | <b>-13.8</b> |
| <b>Import/Export of WR (With NR)</b>  |                |                              |                |                 |                 |               |             |              |              |
| 33                                    | HVDC           | CHAMPA-KURUKSHETRA           | D/C            | 0               | 1005            | 0.0           | 23.7        | -23.7        |              |
| 34                                    |                | V'CHAL B/B                   | D/C            | 240             | 0               | 6.0           | 0.0         | 6.0          |              |
| 35                                    |                | APL -MHG                     | D/C            | 0               | 788             | 0.0           | 17.0        | -17.0        |              |
| 36                                    |                | GWALIOR-AGRA                 | D/C            | 0               | 796             | 0.0           | 30.7        | -30.7        |              |
| 37                                    | 765 kV         | PHAGI-GWALIOR                | D/C            | 0               | 1477            | 0.0           | 25.4        | -25.4        |              |
| 38                                    |                | JABALPUR-ORAI                | D/C            | 108             | 282             | 0.0           | 7.5         | -7.5         |              |
| 39                                    |                | GWALIOR-ORAI                 | S/C            | 554             | 0               | 9.3           | 0.0         | 9.3          |              |
| 40                                    |                | SATNA-ORAI                   | S/C            | 0               | 1683            | 0.0           | 38.7        | -38.7        |              |
| 41                                    |                | 400 kV                       | ZERDA-KANKROLI | S/C             | 241             | 52            | 3.5         | 0.0          | 3.5          |
| 42                                    |                |                              | ZERDA -BHINMAL | S/C             | 100             | 228           | 0.0         | 0.1          | -0.1         |
| 43                                    | V'CHAL -RIHAND |                              | S/C            | 996             | 0               | 23.0          | 0.0         | 23.0         |              |
| 44                                    | RAPP-SHUJALPUR |                              | D/C            | 266             | 81              | 1             | 0           | 1            |              |
| 45                                    | 220 kV         | BADOD-KOTA                   | S/C            | 47              | 9               | 1.3           | 0.0         | 1.3          |              |
| 46                                    |                | BADOD-MORAK                  | S/C            | 48              | 52              | 0.1           | 0.2         | 0.0          |              |
| 47                                    |                | MEHGAON-AURAIYA              | S/C            | 102             | 0               | 1.4           | 0.0         | 1.4          |              |
| 48                                    | 132kV          | MALANPUR-AURAIYA             | S/C            | 58              | 3               | 0.6           | 0.0         | 0.6          |              |
| 49                                    |                | GWALIOR-SAWAI MADHOPUR       | S/C            | 0               | 0               | 0.0           | 0.0         | 0.0          |              |
|                                       |                |                              |                |                 |                 | <b>WR-NR</b>  | <b>46.1</b> | <b>143.3</b> | <b>-97.2</b> |
| <b>Import/Export of WR (With SR)</b>  |                |                              |                |                 |                 |               |             |              |              |
| 50                                    | HVDC           | BHADRAWATI B/B               | -              | 0               | 992             | 0.0           | 20.7        | -20.7        |              |
| 51                                    | LINK           | BARSUR-L.SILERU              | -              | 0               | 0               | 0.0           | 0.0         | 0.0          |              |
| 52                                    | 765 kV         | SOLAPUR-RAICHUR              | D/C            | 606             | 1699            | 0.0           | 18.9        | -18.9        |              |
| 53                                    |                | WARDHA-NIZAMABAD             | D/C            | 0               | 2083            | 0.0           | 28.9        | -28.9        |              |
| 54                                    | 400 kV         | KOLHAPUR-KUDGI               | D/C            | 1240            | 0               | 17.8          | 0.0         | 17.8         |              |
| 55                                    |                | KOLHAPUR-CHIKODI             | D/C            | 0               | 0               | 0.0           | 0.0         | 0.0          |              |
| 56                                    | 220 kV         | PONDA-AMBEWADI               | S/C            | 1               | 0               | 0.0           | 0.0         | 0.0          |              |
| 57                                    |                | XELDEM-AMBEWADI              | S/C            | 0               | 67              | 1.2           | 0.0         | 1.2          |              |
|                                       |                |                              |                |                 |                 | <b>WR-SR</b>  | <b>19.0</b> | <b>68.4</b>  | <b>-49.5</b> |
| <b>TRANSNATIONAL EXCHANGE</b>         |                |                              |                |                 |                 |               |             |              |              |
| 58                                    |                | BHUTAN                       |                |                 |                 |               |             | <b>4.9</b>   |              |
| 59                                    |                | NEPAL                        |                |                 |                 |               |             | <b>-2.9</b>  |              |
| 60                                    |                | BANGLADESH                   |                |                 |                 |               |             | <b>-11.3</b> |              |