



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: 15<sup>th</sup> Feb 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., डोंगतेिह, 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 14.02.2019.**

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 14-फ़रवरी-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 14<sup>th</sup> February 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

15-Feb-19

A. Maximum Demand

|   | NR             | WR             | SR             | ER             | NER           | Total           |
|---|----------------|----------------|----------------|----------------|---------------|-----------------|
| Demand Met during Evening Peak hrs(MW)<br>(at 1900 hrs: from RLDCs) | 42018          | 47265          | 42988          | 17965          | 2426          | 152662          |
| Peak Shortage (MW)  | 581            | 0              | 0              | 0              | 58            | 639             |
| Energy Met (MU)   | 870            | 1111           | 988            | 372            | 43            | 3384            |
| Hydro Gen (MU)  | 118            | 29             | 73             | 23             | 3             | 246             |
| Wind Gen (MU)   | 13             | 35             | 53             | -----          | -----         | 101             |
| Solar Gen (MU)*   | 19.10          | 21.62          | 79.87          | 1.02           | 0.05          | 122             |
| Energy Shortage (MU)  | 10.0           | 0.2            | 0.0            | 0.0            | 0.3           | 10.4            |
| Maximum Demand Met during the day<br>(MW) & time (from NLDC SCADA)  | 43308<br>18:54 | 54047<br>11:00 | 44285<br>09:23 | 19191<br>19:12 | 2460<br>18:05 | 156210<br>19:01 |

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 | 0.047 | 0.00  | 0.64      | 10.53     | 11.17 | 74.50      | 14.33   |

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            | 5098                                | 0                                   | 102.9           | 38.6                 | -1.4             | 112         | 0.0                  |
|         | Haryana           | 5967                                | 0                                   | 111.5           | 74.3                 | 0.4              | 193         | 0.0                  |
|         | Rajasthan         | 11404                               | 0                                   | 227.5           | 56.2                 | -1.6             | 195         | 0.0                  |
|         | Delhi             | 3867                                | 0                                   | 67.0            | 54.8                 | -1.0             | 204         | 0.0                  |
|         | UP                | 13084                               | 0                                   | 246.1           | 100.7                | -0.2             | 789         | 0.0                  |
|         | Uttarakhand       | 1957                                | 0                                   | 37.0            | 24.6                 | -0.6             | 95          | 0.0                  |
|         | HP                | 1571                                | 0                                   | 27.5            | 22.1                 | -0.7             | 64          | 0.6                  |
| WR      | J&K               | 2250                                | 562                                 | 46.7            | 43.5                 | -4.7             | 257         | 9.4                  |
|         | Chandigarh        | 216                                 | 0                                   | 3.5             | 3.7                  | -0.2             | 16          | 0.0                  |
|         | Chhattisgarh      | 3970                                | 0                                   | 89.0            | 28.2                 | 0.0              | 318         | 0.2                  |
|         | Gujarat           | 15166                               | 0                                   | 328.1           | 100.7                | 2.3              | 642         | 0.0                  |
|         | MP                | 11101                               | 0                                   | 213.6           | 108.9                | -1.3             | 542         | 0.0                  |
|         | Maharashtra       | 20803                               | 0                                   | 431.0           | 136.4                | 1.8              | 1034        | 0.0                  |
|         | Goa               | 498                                 | 0                                   | 11.9            | 11.5                 | -0.3             | 97          | 0.0                  |
|         | DD                | 320                                 | 0                                   | 7.2             | 6.9                  | 0.3              | 48          | 0.0                  |
|         | DNH               | 784                                 | 0                                   | 18.3            | 18.1                 | 0.1              | 54          | 0.0                  |
|         | Essar steel       | 568                                 | 0                                   | 11.4            | 11.2                 | 0.2              | 265         | 0.0                  |
| SR      | Andhra Pradesh    | 8216                                | 0                                   | 174.2           | 61.9                 | -0.3             | 481         | 0.0                  |
|         | Telangana         | 9062                                | 0                                   | 194.7           | 68.7                 | 0.3              | 631         | 0.0                  |
|         | Karnataka         | 11411                               | 0                                   | 223.2           | 79.3                 | 0.4              | 947         | 0.0                  |
|         | Kerala            | 3736                                | 0                                   | 74.8            | 62.2                 | 0.6              | 227         | 0.0                  |
|         | Tamil Nadu        | 14521                               | 0                                   | 313.9           | 168.9                | -0.8             | 514         | 0.0                  |
|         | Pondy             | 368                                 | 0                                   | 7.4             | 7.6                  | -0.1             | 37          | 0.0                  |
| ER      | Bihar             | 3984                                | 0                                   | 69.8            | 65.5                 | -1.0             | 460         | 0.0                  |
|         | DVC               | 3071                                | 0                                   | 64.0            | -41.8                | -0.1             | 396         | 0.0                  |
|         | Jharkhand         | 1000                                | 0                                   | 23.9            | 18.2                 | -0.7             | 169         | 0.0                  |
|         | Odisha            | 4457                                | 0                                   | 83.9            | 35.2                 | 0.4              | 267         | 0.0                  |
|         | West Bengal       | 6914                                | 0                                   | 129.3           | 21.8                 | -0.4             | 309         | 0.0                  |
| NER     | Sikkim            | 100                                 | 0                                   | 1.4             | 1.7                  | -0.3             | 18          | 0.0                  |
|         | Arunachal Pradesh | 119                                 | 2                                   | 2.2             | 2.5                  | -0.3             | 38          | 0.0                  |
|         | Assam             | 1399                                | 39                                  | 23.9            | 18.9                 | 0.8              | 150         | 0.2                  |
|         | Manipur           | 188                                 | 3                                   | 2.7             | 2.7                  | 0.0              | 58          | 0.0                  |
|         | Meghalaya         | 375                                 | 0                                   | 6.0             | 5.2                  | -0.2             | 46          | 0.0                  |
|         | Mizoram           | 92                                  | 2                                   | 1.8             | 1.5                  | 0.1              | 5           | 0.0                  |
|         | Nagaland          | 123                                 | 4                                   | 2.2             | 2.0                  | 0.1              | 24          | 0.0                  |
| Tripura | 239               | 1                                   | 3.9                                 | 1.9             | 0.3                  | 41               | 0.0         |                      |

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

|               | Bhutan | Nepal  | Bangladesh |
|---------------|--------|--------|------------|
| Actual(MU)    | 1.0    | -6.9   | -19.5      |
| Day peak (MW) | 213.8  | -309.0 | -989.0     |

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

|              | NR    | WR     | SR    | ER    | NER  | TOTAL |
|--------------|-------|--------|-------|-------|------|-------|
| Schedule(MU) | 167.1 | -209.3 | 118.2 | -82.1 | 5.7  | -0.4  |
| Actual(MU)   | 157.1 | -205.4 | 120.0 | -82.4 | 3.1  | -7.6  |
| O/D/U/D(MU)  | -10.0 | 3.9    | 1.9   | -0.3  | -2.6 | -7.1  |

F. Generation Outage(MW)

|                | NR    | WR    | SR    | ER   | NER | Total |
|----------------|-------|-------|-------|------|-----|-------|
| Central Sector | 4725  | 16050 | 5682  | 870  | 658 | 27985 |
| State Sector   | 10980 | 14564 | 8430  | 3625 | 50  | 37649 |
| Total          | 15705 | 30614 | 14112 | 4495 | 708 | 65634 |

G. Sourcewise generation (MU)

|                                     | NR  | WR   | SR  | ER  | NER | All India |
|-------------------------------------|-----|------|-----|-----|-----|-----------|
| Coal                                | 487 | 1161 | 516 | 473 | 9   | 2646      |
| Lignite                             | 20  | 18   | 57  | 0   | 0   | 95        |
| Hydro                               | 118 | 28   | 73  | 23  | 3   | 246       |
| Nuclear                             | 13  | 31   | 36  | 0   | 0   | 80        |
| Gas, Naptha & Diesel                | 29  | 34   | 17  | 0   | 28  | 108       |
| RES (Wind, Solar, Biomass & Others) | 62  | 60   | 176 | 1   | 0   | 299       |
| Total                               | 730 | 1332 | 874 | 498 | 40  | 3474      |

|   |       |      |       |      |      |       |
|---|-------|------|-------|------|------|-------|
| Share of RES in total generation (%)                                      | 8.54  | 4.52 | 20.08 | 0.22 | 0.12 | 8.61  |
| Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%) | 26.51 | 9.00 | 32.50 | 4.90 | 7.87 | 17.99 |

H. Diversity Factor

|                                   |       |
|-----------------------------------|-------|
| All India Demand Diversity Factor | 1.045 |
|-----------------------------------|-------|

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 : 15-Feb-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               | 417             | 0.0         | 6.3          | -6.3          |
| 2                                     |                | SASARAM-FATEHPUR             | S/C            | 0               | 295             | 0.0         | 3.7          | -3.7          |
| 3                                     |                | GAYA-BALIA                   | S/C            | 0               | 418             | 0.0         | 7.3          | -7.3          |
| 4                                     | HVDC           | ALIPURDUAR-AGRA              | -              | 0               | 0               | 0.0         | 0.0          | 0.0           |
| 5                                     |                | PUSAULI B/B                  | S/C            | 0               | 146             | 0.0         | 3.6          | -3.6          |
| 6                                     | 400 kV         | PUSAULI-VARANASI             | S/C            | 0               | 111             | 0.0         | 1.8          | -1.8          |
| 7                                     |                | PUSAULI -ALLAHABAD           | S/C            | 0               | 108             | 0.0         | 1.6          | -1.6          |
| 8                                     |                | MUZAFFARPUR-GORAKHPUR        | D/C            | 0               | 636             | 0.0         | 8.0          | -8.0          |
| 9                                     |                | PATNA-BALIA                  | Q/C            | 0               | 1081            | 0.0         | 17.8         | -17.8         |
| 10                                    |                | BIHARSHARIFF-BALIA           | D/C            | 0               | 372             | 0.0         | 5.7          | -5.7          |
| 11                                    |                | MOTIHARI-GORAKHPUR           | D/C            | 0               | 362             | 0.0         | 6.9          | -6.9          |
| 12                                    |                | BIHARSHARIFF-VARANASI        | D/C            | 58              | 271             | 0.0         | 2.6          | -2.6          |
| 13                                    | 220 kV         | PUSAULI-SAHUPURI             | S/C            | 0               | 143             | 0.0         | 2.3          | -2.3          |
| 14                                    | 132 kV         | SONE NAGAR-RIHAND            | S/C            | 0               | 0               | 0.0         | 0.0          | 0.0           |
| 15                                    |                | GARWAH-RIHAND                | S/C            | 30              | 0               | 0.7         | 0.0          | 0.7           |
| 16                                    |                | KARMANASA-SAHUPURI           | S/C            | 0               | 0               | 0.0         | 0.0          | 0.0           |
| 17                                    |                | KARMANASA-CHANDAULI          | S/C            | 1               | 0               | 0.0         | 0.0          | 0.0           |
| <b>ER-NR</b>                          |                |                              |                |                 |                 | <b>0.7</b>  | <b>67.5</b>  | <b>-66.9</b>  |
| <b>Import/Export of ER (With WR)</b>  |                |                              |                |                 |                 |             |              |               |
| 18                                    | 765 kV         | JHARSUGUDA-DHARAMJAIGARH S/C | D/C            | 1301            | 0               | 19.6        | 0.0          | 19.6          |
| 19                                    |                | NEW RANCHI-DHARAMJAIGARH     | D/C            | 206             | 474             | 0.0         | 2.7          | -2.7          |
| 20                                    | 400 kV         | JHARSUGUDA-RAIGARH           | Q/C            | 351             | 245             | 0.5         | 0.0          | 0.5           |
| 21                                    |                | RANCHI-SIPAT                 | D/C            | 182             | 101             | 1.0         | 0.0          | 1.0           |
| 22                                    | 220 kV         | BUDHIPADAR-RAIGARH           | S/C            | 16              | 112             | 0.0         | 1.1          | -1.1          |
| 23                                    |                | BUDHIPADAR-KORBA             | D/C            | 86              | 0               | 1.4         | 0.0          | 1.4           |
| <b>ER-WR</b>                          |                |                              |                |                 |                 | <b>22.5</b> | <b>3.9</b>   | <b>18.6</b>   |
| <b>Import/Export of ER (With SR)</b>  |                |                              |                |                 |                 |             |              |               |
| 24                                    | 765 kV         | ANGUL-SRIKAKULAM             | D/C            | 0.0             | 1794.0          | 0.0         | 33.2         | -33.2         |
| 25                                    | HVDC           | JEYPORE-GAZUWAKA B/B         | D/C            | 0.0             | 688.0           | 0.0         | 16.0         | -16.0         |
| 26                                    | LINK           | TALCHER-KOLAR BIPOLE         | D/C            | 0.0             | 1975.0          | 0.0         | 45.0         | -45.0         |
| 27                                    | 400 kV         | TALCHER-I/C                  | D/C            | 0.0             | 342.0           | 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>94.2</b>  | <b>-94.2</b>  |
| <b>Import/Export of ER (With NER)</b> |                |                              |                |                 |                 |             |              |               |
| 29                                    | 400 kV         | BINAGURI-BONGAIGAON          | D/C            | 327             | 107             | 4.5         | 0.0          | 5             |
| 30                                    |                | ALIPURDUAR-BONGAIGAON        | D/C            | 429             | 29              | 7.1         | 0.0          | 7             |
| 31                                    | 220 kV         | ALIPURDUAR-SALAKATI          | D/C            | 91              | 27              | 1.1         | 0.0          | 1             |
| <b>ER-NER</b>                         |                |                              |                |                 |                 | <b>12.8</b> | <b>0.0</b>   | <b>12.8</b>   |
| <b>Import/Export of NER (With NR)</b> |                |                              |                |                 |                 |             |              |               |
| 32                                    | HVDC           | BISWANATH CHARIALI-AGRA      | -              | 666             | 0               | 16.4        | 0.0          | 16.4          |
| <b>NER-NR</b>                         |                |                              |                |                 |                 | <b>16.4</b> | <b>0.0</b>   | <b>16.4</b>   |
| <b>Import/Export of WR (With NR)</b>  |                |                              |                |                 |                 |             |              |               |
| 33                                    | HVDC           | CHAMPA-KURUKSHETRA           | D/C            | 0               | 1007            | 0.0         | 23.8         | -23.8         |
| 34                                    |                | V'CHAL B/B                   | D/C            | 243             | 0               | 6.0         | 0.0          | 6.0           |
| 35                                    | 765 kV         | APL -MHG                     | D/C            | 0               | 1737            | 0.0         | 43.4         | -43.4         |
| 36                                    |                | GWALIOR-AGRA                 | D/C            | 0               | 1990            | 0.0         | 34.8         | -34.8         |
| 37                                    |                | PHAGI-GWALIOR                | D/C            | 0               | 869             | 0.0         | 11.2         | -11.2         |
| 38                                    |                | JABALPUR-ORAI                | D/C            | 0               | 543             | 0.0         | 15.8         | -15.8         |
| 39                                    |                | GWALIOR-ORAI                 | S/C            | 542             | 0               | 9.7         | 0.0          | 9.7           |
| 40                                    |                | SATNA-ORAI                   | S/C            | 0               | 1121            | 0.0         | 23.2         | -23.2         |
| 41                                    |                | 400 kV                       | ZERDA-KANKROLI | S/C             | 198             | 10          | 3.1          | 0.0           |
| 42                                    | ZERDA -BHINMAL |                              | S/C            | 202             | 145             | 0.0         | 0.3          | -0.3          |
| 43                                    | V'CHAL -RIHAND |                              | S/C            | 966             | 0               | 19.3        | 0.0          | 19.3          |
| 44                                    | RAPP-SHUJALPUR |                              | D/C            | 199             | 176             | 0           | 0            | 0             |
| 45                                    | 220 kV         | BADOD-KOTA                   | S/C            | 53              | 25              | 0.0         | 0.7          | -0.7          |
| 46                                    |                | BADOD-MORAK                  | S/C            | 0               | 80              | 0.0         | 0.4          | -0.4          |
| 47                                    |                | MEHGAON-AURAIYA              | S/C            | 88              | 0               | 1.1         | 0.0          | 1.1           |
| 48                                    | 132kV          | MALANPUR-AURAIYA             | S/C            | 48              | 19              | 0.4         | 0.1          | 0.3           |
| 49                                    |                | GWALIOR-SAWAI MADHOPUR       | S/C            | 0               | 0               | 0.0         | 0.0          | 0.0           |
| <b>WR-NR</b>                          |                |                              |                |                 |                 | <b>39.8</b> | <b>153.6</b> | <b>-113.8</b> |
| <b>Import/Export of WR (With SR)</b>  |                |                              |                |                 |                 |             |              |               |
| 50                                    | HVDC           | BHADRAWATI B/B               | -              | 0               | 999             | 0.0         | 23.8         | -23.8         |
| 51                                    | LINK           | BARSUR-L.SILERU              | -              | 0               | 0               | 0.0         | 0.0          | 0.0           |
| 52                                    | 765 kV         | SOLAPUR-RAICHUR              | D/C            | 0               | 2071            | 0.0         | 28.6         | -28.6         |
| 53                                    |                | WARDHA-NIZAMABAD             | D/C            | 0               | 1966            | 0.0         | 32.1         | -32.1         |
| 54                                    | 400 kV         | KOLHAPUR-KUDGI               | D/C            | 819             | 0               | 12.6        | 0.0          | 12.6          |
| 55                                    |                | KOLHAPUR-CHIKODI             | D/C            | 0               | 0               | 0.0         | 0.0          | 0.0           |
| 56                                    | 220 kV         | PONDA-AMBEWADI               | S/C            | 0               | 69              | 0.0         | 1.0          | -1.0          |
| 57                                    |                | XELDEM-AMBEWADI              | S/C            | 0               | 49              | 0.9         | 0.0          | 0.9           |
| <b>WR-SR</b>                          |                |                              |                |                 |                 | <b>13.6</b> | <b>85.5</b>  | <b>-71.9</b>  |
| <b>TRANSNATIONAL EXCHANGE</b>         |                |                              |                |                 |                 |             |              |               |
| 58                                    |                | BHUTAN                       |                |                 |                 |             |              | 1.0           |
| 59                                    |                | NEPAL                        |                |                 |                 |             |              | -6.9          |
| 60                                    |                | BANGLADESH                   |                |                 |                 |             |              | -19.5         |