



National Load Despatch Centre  
POWER SYSTEM OPERATION CORPORATION LIMITED  
(A Government of India Enterprise)  
CIN No.: U40105DL2009GOI188682

B-9, QUTUB INSTITUTIONAL AREA, KATWARIA SARAI, NEW DELHI -110016

Jun

Date: 24<sup>th</sup> May 2022

Ref: POSOCO/NLDC/SO/Weekly Report

To,

- कार्यपालक निदेशक, पू. क्षे. भा. प्रे. के., 14, गोल्फ क्लब रोड, कोलकाता - 700033  
Executive Director, ERLDC, 14 Golf Club Road, Tolleygunge, Kolkata, 700033
- कार्यपालक 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
- कार्यपालक निदेशक, प. क्षे. भा. प्रे. के., एफ-3, एम आई डी सी क्षेत्र, अंधेरी, मुंबई - 400093  
Executive Director, WRLDC, F-3, M.I.D.C. Area, Marol, Andheri (East), Mumbai-400093
- कार्यपालक निदेशक, ऊ. पू. क्षे. भा. प्रे. के., डोंगतिह, लोअर नोंग्रह, लापलंग, शिलोंग - 793006  
Executive Director, NERLDC, Dongteih, Lower Nongrah, Lapalang, Shillong - 793006, Meghalaya
- कार्यपालक निदेशक, द. क्षे. भा. प्रे. के., 29, रेस कोर्स क्रॉस रोड, बंगलुरु - 560009  
Executive Director, SRLDC, 29, Race Course Cross Road, Bangalore-560009

Sub: Weekly Status Report 13<sup>th</sup> Jun-2022 to 19<sup>th</sup> Jun-2022.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, 13 जून -2022 से 19 जून-2022, सप्ताह की अखिल भारतीय प्रणाली की ग्रिड निष्पादन रिपोर्ट राभाप्रेके की वेबसाइट पर निम्न लिंक पर उपलब्ध है :-

As per article 5.5.1 of the Indian Electricity Grid Code, the weekly status report pertaining power supply position report of All India Power System for the week 13<sup>th</sup> Jun-2022 to 19<sup>th</sup> Jun-2022 is available at the NLDC website.

Thanking You.

Yours faithfully,

General Manager (System Operation)

**पॉवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड**  
**राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली**

साप्ताहिक रिपोर्ट (13 जून 2022 से 19 जून 2022 तक)

रिपोर्टिंग तिथि:- 24-Jun-22

(आई० ई० जी० सी० की धारा संख्या-5.5.1 के अंतर्गत)

**1. अधिकतम मांग आपूर्ति और अधिकतम कमी (मे०वा०)**

| दिनांक     | उत्तरी क्षेत्र               |                     | पश्चिमी क्षेत्र              |                     | दक्षिणी क्षेत्र              |                     | पूर्वी क्षेत्र               |                     | पूर्वोत्तर क्षेत्र           |                     | कुल                          |                     |
|------------|------------------------------|---------------------|------------------------------|---------------------|------------------------------|---------------------|------------------------------|---------------------|------------------------------|---------------------|------------------------------|---------------------|
|            | अधिकतम मांग आपूर्ति (मे०वा०) | अधिकतम कमी (मे०वा०) | अधिकतम मांग आपूर्ति (मे०वा०) | अधिकतम कमी (मे०वा०) | अधिकतम मांग आपूर्ति (मे०वा०) | अधिकतम कमी (मे०वा०) | अधिकतम मांग आपूर्ति (मे०वा०) | अधिकतम कमी (मे०वा०) | अधिकतम मांग आपूर्ति (मे०वा०) | अधिकतम कमी (मे०वा०) | अधिकतम मांग आपूर्ति (मे०वा०) | अधिकतम कमी (मे०वा०) |
| 13-06-2022 | 62908                        | 2265                | 55600                        |                     | 44534                        |                     | 23357                        | 1389                | 2617                         |                     | 189016                       | 3654                |
| 14-06-2022 | 65724                        | 2134                | 57277                        |                     | 44513                        |                     | 21980                        | 356                 | 2523                         |                     | 192017                       | 2490                |
| 15-06-2022 | 65224                        | 1123                | 55785                        |                     | 43630                        |                     | 22825                        | 482                 | 2331                         | 23                  | 189795                       | 1628                |
| 16-06-2022 | 66222                        | 355                 | 56230                        |                     | 43341                        |                     | 23668                        | 1053                | 2304                         |                     | 191765                       | 1408                |
| 17-06-2022 | 60620                        | 200                 | 55555                        |                     | 43252                        |                     | 23186                        | 472                 | 2260                         |                     | 184873                       | 672                 |
| 18-06-2022 | 59798                        | 22                  | 54686                        |                     | 42065                        |                     | 21009                        | 48                  | 2344                         |                     | 179902                       | 70                  |
| 19-06-2022 | 56715                        |                     | 51145                        |                     | 38786                        |                     | 21426                        |                     | 2334                         |                     | 170406                       |                     |

**2. ऊर्जा आपूर्ति और पनबिजली उत्पादन (मि०घू०)**

| क्षेत्र / तिथि | उत्तरी क्षेत्र         |                          | पश्चिमी क्षेत्र        |                          | दक्षिणी क्षेत्र        |                          | पूर्वी क्षेत्र         |                          | पूर्वोत्तर क्षेत्र     |                          | कुल                    |                          |
|----------------|------------------------|--------------------------|------------------------|--------------------------|------------------------|--------------------------|------------------------|--------------------------|------------------------|--------------------------|------------------------|--------------------------|
|                | ऊर्जा आपूर्ति (मि०घू०) | पनबिजली उत्पादन (मि०घू०) | ऊर्जा आपूर्ति (मि०घू०) | पनबिजली उत्पादन (मि०घू०) | ऊर्जा आपूर्ति (मि०घू०) | पनबिजली उत्पादन (मि०घू०) | ऊर्जा आपूर्ति (मि०घू०) | पनबिजली उत्पादन (मि०घू०) | ऊर्जा आपूर्ति (मि०घू०) | पनबिजली उत्पादन (मि०घू०) | ऊर्जा आपूर्ति (मि०घू०) | पनबिजली उत्पादन (मि०घू०) |
| 13-06-2022     | 1566                   | 301                      | 1332                   | 29                       | 1051                   | 67                       | 560                    | 97                       | 45                     | 34                       | 4554                   | 527                      |
| 14-06-2022     | 1581                   | 307                      | 1365                   | 30                       | 1071                   | 60                       | 558                    | 97                       | 44                     | 31                       | 4619                   | 524                      |
| 15-06-2022     | 1638                   | 326                      | 1364                   | 29                       | 1028                   | 59                       | 525                    | 108                      | 44                     | 34                       | 4599                   | 557                      |
| 16-06-2022     | 1568                   | 326                      | 1351                   | 34                       | 1004                   | 45                       | 549                    | 104                      | 42                     | 34                       | 4514                   | 542                      |
| 17-06-2022     | 1423                   | 299                      | 1349                   | 34                       | 1005                   | 49                       | 528                    | 97                       | 41                     | 35                       | 4346                   | 513                      |
| 18-06-2022     | 1357                   | 275                      | 1330                   | 31                       | 985                    | 44                       | 504                    | 102                      | 42                     | 35                       | 4219                   | 488                      |
| 19-06-2022     | 1302                   | 265                      | 1254                   | 27                       | 915                    | 34                       | 488                    | 112                      | 43                     | 35                       | 4002                   | 472                      |

**3. आवृत्ति (प्रतिशत समय में)**

| तिथि       | 49.8-49.9   | <49.9       | 49.9-50.05  | >50.05      | Average     | FVI         |
|------------|-------------|-------------|-------------|-------------|-------------|-------------|
|            | ऑ० ई० ग्रिड | ऑ० ई० ग्रिड | ऑ० ई० ग्रिड | ऑ० ई० ग्रिड | ऑ० ई० ग्रिड | ऑ० ई० ग्रिड |
| 13-06-2022 | 29.57       | 42.01       | 54.71       | 3.28        | 49.91       | 0.179       |
| 14-06-2022 | 10.67       | 10.83       | 77.34       | 11.83       | 49.99       | 0.040       |
| 15-06-2022 | 2.20        | 3.41        | 70.79       | 25.80       | 50.02       | 0.038       |
| 16-06-2022 | 12.65       | 13.36       | 73.39       | 13.25       | 49.98       | 0.047       |
| 17-06-2022 | 3.98        | 4.02        | 78.89       | 17.09       | 50.00       | 0.029       |
| 18-06-2022 | 9.93        | 12.88       | 69.12       | 18.00       | 49.99       | 0.060       |
| 19-06-2022 | 4.42        | 6.06        | 73.65       | 20.29       | 50.01       | 0.074       |

\*NEW & SR grid running in synchronisation.

**4. NEW ELEMENTS COMMISSIONED**

5. Maximum Demand Met during the day & Peak Hour Shortage in States (in MW)

| Region     | Date              | 13-06-2022                     |                  | 14-06-2022                     |                  | 15-06-2022                     |                  | 16-06-2022                     |                  | 17-06-2022                     |                  | 18-06-2022                     |                  | 19-06-2022                     |                  |
|------------|-------------------|--------------------------------|------------------|--------------------------------|------------------|--------------------------------|------------------|--------------------------------|------------------|--------------------------------|------------------|--------------------------------|------------------|--------------------------------|------------------|
|            | States            | Max. Demand Met during the day | Peak hr Shortage | Max. Demand Met during the day | Peak hr Shortage | Max. Demand Met during the day | Peak hr Shortage | Max. Demand Met during the day | Peak hr Shortage | Max. Demand Met during the day | Peak hr Shortage | Max. Demand Met during the day | Peak hr Shortage | Max. Demand Met during the day | Peak hr Shortage |
| NR         | Punjab            | 11389                          | 0                | 12024                          | 0                | 12510                          | 0                | 12736                          | 0                | 11941                          | 0                | 11347                          | 0                | 11025                          | 0                |
|            | Haryana           | 10821                          | 0                | 10583                          | 0                | 11054                          | 0                | 10261                          | 0                | 9980                           | 0                | 8413                           | 0                | 7852                           | 0                |
|            | Rajasthan         | 14544                          | 820              | 13789                          | 202              | 15217                          | 0                | 14767                          | 0                | 14655                          | 0                | 13013                          | 0                | 10561                          | 0                |
|            | Delhi             | 7202                           | 0                | 7139                           | 0                | 7227                           | 0                | 7187                           | 0                | 6708                           | 0                | 5325                           | 0                | 5178                           | 0                |
|            | UP                | 25514                          | 160              | 23252                          | 1500             | 24896                          | 490              | 24291                          | 0                | 22622                          | 1080             | 21853                          | 0                | 21460                          | 0                |
|            | Uttarakhand       | 2355                           | 75               | 2594                           | 0                | 2517                           | 0                | 2325                           | 0                | 2240                           | 0                | 2016                           | 0                | 1917                           | 0                |
|            | HP                | 1605                           | 21               | 1739                           | 0                | 1738                           | 0                | 1580                           | 40               | 1611                           | 49               | 1544                           | 0                | 1486                           | 0                |
|            | J&K               | 2058                           | 250              | 2128                           | 50               | 2194                           | 200              | 2043                           | 0                | 1657                           | 150              | 1556                           | 300              | 1867                           | 0                |
| Chandigarh | 388               | 0                              | 377              | 0                              | 407              | 0                              | 340              | 0                              | 285              | 0                              | 238              | 0                              | 223              | 0                              |                  |
| WR         | Chhattisgarh      | 4450                           | 0                | 4556                           | 0                | 4374                           | 0                | 4303                           | 0                | 4312                           | 0                | 3764                           | 0                | 3752                           | 0                |
|            | Gujarat           | 18325                          | 0                | 18849                          | 0                | 18050                          | 0                | 18921                          | 0                | 19519                          | 0                | 19271                          | 0                | 18622                          | 0                |
|            | MP                | 10497                          | 0                | 10903                          | 0                | 10772                          | 0                | 9916                           | 0                | 9340                           | 0                | 9235                           | 0                | 8725                           | 0                |
|            | Maharashtra       | 23624                          | 0                | 24467                          | 0                | 24699                          | 0                | 24581                          | 0                | 24574                          | 0                | 24668                          | 0                | 22813                          | 0                |
|            | Goa               | 592                            | 0                | 604                            | 0                | 627                            | 0                | 578                            | 0                | 634                            | 0                | 611                            | 0                | 563                            | 0                |
|            | DNHDDPDCL         | 1220                           | 0                | 1222                           | 0                | 1227                           | 0                | 1217                           | 0                | 1206                           | 0                | 1226                           | 0                | 1195                           | 0                |
|            | Essar steel       | 834                            | 0                | 783                            | 0                | 809                            | 0                | 823                            | 0                | 835                            | 0                | 849                            | 0                | 919                            | 0                |
| SR         | Andhra Pradesh    | 10506                          | 0                | 11145                          | 0                | 9503                           | 0                | 9960                           | 0                | 9278                           | 0                | 8972                           | 0                | 8762                           | 0                |
|            | Telangana         | 9045                           | 0                | 8874                           | 0                | 8296                           | 0                | 8094                           | 0                | 8677                           | 0                | 8667                           | 0                | 7996                           | 0                |
|            | Karnataka         | 11147                          | 0                | 11781                          | 0                | 10930                          | 0                | 10951                          | 0                | 10601                          | 0                | 10277                          | 0                | 8964                           | 0                |
|            | Kerala            | 3826                           | 0                | 3785                           | 0                | 3590                           | 0                | 3688                           | 0                | 3624                           | 0                | 3613                           | 0                | 3423                           | 0                |
|            | Tamil Nadu        | 16267                          | 0                | 16274                          | 0                | 15725                          | 0                | 15330                          | 0                | 15324                          | 0                | 14738                          | 0                | 13455                          | 0                |
|            | Pondy             | 433                            | 0                | 444                            | 0                | 432                            | 0                | 445                            | 0                | 420                            | 0                | 428                            | 0                | 404                            | 0                |
| ER         | Bihar             | 5751                           | 554              | 6192                           | 0                | 5708                           | 243              | 6024                           | 129              | 6212                           | 0                | 5993                           | 0                | 5523                           | 0                |
|            | DVC               | 3558                           | 0                | 3540                           | 0                | 3499                           | 100              | 3507                           | 0                | 3527                           | 0                | 3255                           | 0                | 3384                           | 0                |
|            | Jharkhand         | 1549                           | 0                | 1504                           | 116              | 1302                           | 0                | 1490                           | 131              | 1361                           | 432              | 1328                           | 0                | 1323                           | 0                |
|            | Odisha            | 6518                           | 0                | 6299                           | 0                | 5911                           | 0                | 6293                           | 0                | 6235                           | 0                | 5864                           | 0                | 5833                           | 0                |
|            | West Bengal       | 9486                           | 0                | 9442                           | 0                | 8910                           | 0                | 9028                           | 0                | 8882                           | 0                | 7843                           | 0                | 7382                           | 0                |
|            | Sikkim            | 99                             | 0                | 96                             | 0                | 94                             | 0                | 91                             | 0                | 95                             | 0                | 94                             | 0                | 73                             | 0                |
| NER        | Arunachal Pradesh | 123                            | 0                | 138                            | 0                | 135                            | 0                | 137                            | 0                | 125                            | 0                | 135                            | 0                | 123                            | 0                |
|            | Assam             | 1694                           | 0                | 1570                           | 0                | 1535                           | 0                | 1371                           | 0                | 1435                           | 0                | 1430                           | 0                | 1515                           | 0                |
|            | Manipur           | 174                            | 0                | 164                            | 0                | 174                            | 0                | 168                            | 0                | 175                            | 0                | 158                            | 0                | 179                            | 0                |
|            | Meghalaya         | 283                            | 0                | 288                            | 0                | 298                            | 0                | 278                            | 0                | 277                            | 0                | 318                            | 0                | 278                            | 0                |
|            | Mizoram           | 89                             | 0                | 94                             | 0                | 94                             | 0                | 98                             | 0                | 97                             | 0                | 96                             | 0                | 94                             | 0                |
|            | Nagaland          | 142                            | 0                | 131                            | 0                | 124                            | 0                | 130                            | 0                | 135                            | 0                | 136                            | 0                | 134                            | 0                |
| Tripura    | 247               | 0                              | 241              | 0                              | 206              | 0                              | 228              | 0                              | 190              | 0                              | 200              | 0                              | 204              | 0                              |                  |

## 6. Energy Consumption in States (MUs)

| Region                 | States            | 13-06-2022    | 14-06-2022    | 15-06-2022    | 16-06-2022    | 17-06-2022    | 18-06-2022    | 19-06-2022    |
|------------------------|-------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| NR                     | Punjab            | 242.0         | 265.4         | 264.6         | 263.8         | 216.0         | 235.9         | 255.1         |
|                        | Haryana           | 225.3         | 235.0         | 239.9         | 224.3         | 193.0         | 180.8         | 170.2         |
|                        | Rajasthan         | 296.4         | 283.9         | 308.4         | 304.6         | 295.8         | 269.1         | 228.3         |
|                        | Delhi             | 150.3         | 144.2         | 145.3         | 140.2         | 125.5         | 108.6         | 98.6          |
|                        | UP                | 509.8         | 507.5         | 526.5         | 493.8         | 463.2         | 438.8         | 430.1         |
|                        | Uttarakhand       | 50.9          | 52.9          | 54.3          | 50.8          | 48.2          | 45.8          | 42.0          |
|                        | HP                | 34.1          | 36.5          | 35.9          | 33.6          | 33.5          | 31.3          | 30.0          |
|                        | J&K               | 49.4          | 48.3          | 55.0          | 49.7          | 41.5          | 41.9          | 43.3          |
|                        | Chandigarh        | 7.6           | 7.5           | 7.8           | 7.1           | 5.9           | 5.1           | 4.6           |
| WR                     | Chhattisgarh      | 107.0         | 108.1         | 99.9          | 97.6          | 96.7          | 87.3          | 85.1          |
|                        | Gujarat           | 400.1         | 405.4         | 406.6         | 415.0         | 421.7         | 422.2         | 401.3         |
|                        | MP                | 239.1         | 245.5         | 242.0         | 222.5         | 218.7         | 210.6         | 192.1         |
|                        | Maharashtra       | 527.5         | 547.4         | 557.1         | 556.6         | 552.9         | 550.7         | 516.6         |
|                        | Goa               | 12.2          | 12.7          | 12.9          | 12.7          | 13.0          | 12.7          | 11.7          |
|                        | DNHDDPDCL         | 28.0          | 28.5          | 28.6          | 28.2          | 28.0          | 28.5          | 27.4          |
|                        | Essar steel       | 17.8          | 17.2          | 17.1          | 17.9          | 17.9          | 18.4          | 20.1          |
| SR                     | Andhra Pradesh    | 215.3         | 220.4         | 205.9         | 205.3         | 200.8         | 197.3         | 191.4         |
|                        | Telangana         | 183.7         | 178.8         | 171.2         | 164.9         | 172.0         | 173.9         | 162.2         |
|                        | Karnataka         | 212.4         | 223.4         | 209.5         | 211.8         | 206.3         | 202.5         | 180.4         |
|                        | Kerala            | 75.0          | 77.2          | 76.4          | 74.9          | 75.7          | 75.2          | 68.6          |
|                        | Tamil Nadu        | 354.5         | 360.8         | 355.1         | 337.8         | 340.7         | 326.3         | 303.4         |
|                        | Pondy             | 10.0          | 10.1          | 9.9           | 9.7           | 9.9           | 9.8           | 9.3           |
| ER                     | Bihar             | 123.3         | 130.3         | 119.6         | 122.5         | 121.6         | 110.5         | 104.1         |
|                        | DVC               | 75.2          | 76.8          | 72.8          | 77.1          | 75.2          | 75.5          | 73.4          |
|                        | Jharkhand         | 31.5          | 32.3          | 28.0          | 30.6          | 28.9          | 29.4          | 27.9          |
|                        | Odisha            | 136.2         | 129.2         | 125.3         | 127.8         | 128.0         | 124.0         | 129.4         |
|                        | West Bengal       | 192.4         | 188.1         | 177.7         | 189.9         | 172.5         | 163.5         | 151.7         |
|                        | Sikkim            | 1.4           | 1.6           | 1.4           | 1.4           | 1.5           | 1.5           | 1.2           |
| NER                    | Arunachal Pradesh | 2.3           | 2.3           | 2.6           | 2.4           | 2.2           | 2.3           | 2.2           |
|                        | Assam             | 28.3          | 27.3          | 25.7          | 24.2          | 24.2          | 24.8          | 25.1          |
|                        | Manipur           | 2.6           | 2.5           | 2.6           | 2.7           | 2.5           | 2.3           | 2.5           |
|                        | Meghalaya         | 3.7           | 4.0           | 4.9           | 4.9           | 4.7           | 5.1           | 5.4           |
|                        | Mizoram           | 1.9           | 1.8           | 1.8           | 1.7           | 1.7           | 1.6           | 1.5           |
|                        | Nagaland          | 2.7           | 2.7           | 2.3           | 2.5           | 2.6           | 2.6           | 2.4           |
|                        | Tripura           | 4.0           | 3.8           | 4.1           | 4.0           | 3.3           | 3.3           | 3.5           |
| <b>ALL INDIA TOTAL</b> |                   | <b>4553.8</b> | <b>4619.3</b> | <b>4598.7</b> | <b>4514.3</b> | <b>4345.7</b> | <b>4219.0</b> | <b>4002.1</b> |

# भूटान , नेपाल एवं बांग्लादेश के साथ अंतरराष्ट्रीय विद्युत विनिमय INTERNATIONAL EXCHANGE WITH BHUTAN, NEPAL AND BANGLADESH

**साप्ताहिक रिपोर्ट (13 जून 2022 से 19 जून 2022 तक)**

| दिनांक Date      | भूटान BHUTAN            |                  | नेपाल NEPAL             |               |                  | बांग्लादेश BANGLADESH   |               |                  |
|------------------|-------------------------|------------------|-------------------------|---------------|------------------|-------------------------|---------------|------------------|
|                  | Energy Exchange (In MU) | Day Average (MW) | Energy Exchange (In MU) | Day Peak (MW) | Day Average (MW) | Energy Exchange (In MU) | Day Peak (MW) | Day Average (MW) |
| 13-06-2022       | 18.9                    | 785              | 5.3                     | 291           | 223              | -25.4                   | -1063         | -1060            |
| 14-06-2022       | 24.4                    | 1015             | 5.2                     | 316           | 216              | -25.0                   | -1052         | -1041            |
| 15-06-2022       | 32.4                    | 1352             | 4.3                     | 249           | 181              | -24.2                   | -1022         | -1010            |
| 16-06-2022       | 33.9                    | 1413             | 5.2                     | 273           | 216              | -24.3                   | -1055         | -1013            |
| 17-06-2022       | 35.2                    | 1465             | 5.0                     | 275           | 207              | -24.8                   | -1050         | -1032            |
| 18-06-2022       | 38.4                    | 1599             | 7.7                     | 391           | 320              | -21.9                   | -1055         | -911             |
| 19-06-2022       | 36.3                    | 1511             | 4.4                     | 250           | 181              | -24.9                   | -1057         | -1038            |
| <b>कुल Total</b> | <b>219.4</b>            |                  | <b>37.1</b>             |               |                  | <b>-170.5</b>           |               |                  |

पॉवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड  
राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली

साप्ताहिक रिपोर्ट (13 जून 2022 से 19 जून 2022 तक)

(आई० ई० जी० सी० की धारा संख्या-5.5.1 के अंतर्गत)

| 7. अंतर्क्षेत्रीय विनिमय [प्रथम क्षेत्र से द्वितीय क्षेत्र को आयात (+) / निर्यात (-) ] |            |            |            |            |            |            |            |
|--|------------|------------|------------|------------|------------|------------|------------|
| दिनांक   | 13-06-2022 | 14-06-2022 | 15-06-2022 | 16-06-2022 | 17-06-2022 | 18-06-2022 | 19-06-2022 |
| East to North  | -107.1     | -107.9     | -121.8     | -108.3     | -101.7     | -113.9     | -115.2     |
| East to West   | 59.9       | 49.6       | 25.6       | 30.1       | 15.3       | 2.5        | 2.8        |
| East to South  | -92.3      | -93.6      | -98.8      | -95.9      | -105.6     | -103.1     | -88.1      |
| East to North-East   | 6.3        | 7.0        | 13.2       | 11.9       | 15.6       | 16.3       | 10.9       |
| North-East to North  | -19.3      | -15.3      | -12.2      | -12.1      | -12.1      | -12.1      | -16.3      |
| West to North  | -195.4     | -211.3     | -189.7     | -151.8     | -75.8      | -81.5      | -81.2      |
| West to South  | 22.1       | 0.9        | -41.4      | -40.4      | -69.1      | -66.4      | -34.3      |