

# Statistical release

## P4141

# Electricity generated and available for distribution (Preliminary)

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## Results for November 2011

**Table A – Selected key figures regarding electricity generated and available for distribution**

| Actual estimates   | November 2011<br>1/ | % change between<br>November 2010<br>and<br>November 2011 | % change between<br>September to<br>November 2010<br>and<br>September to<br>November 2011 | % change between<br>January to<br>November 2010<br>and<br>January to<br>November 2011 |
|--|---------------------|---|---|---|
| Electricity available for distribution<br>(Gigawatt-hours)           | 19 750              | 0,2   | 0,4   | 0,9   |
| Index of the physical volume of electricity<br>production (2005=100) | 106,1               | 0,2   | 0,4   | 1,2   |

1/ Preliminary.

| Seasonally adjusted estimates  | November 2011 | % change between<br>October<br>and<br>November 2011 | % change between<br>June to August 2011<br>and<br>September to November<br>2011 |
|--|---------------|---|---|
| Electricity available for distribution<br>(Gigawatt-hours)           | 20 129        | 1,0   | 0,6   |
| Index of the physical volume of electricity<br>production (2005=100) | 107,5         | 0,3   | 1,1   |

### Consumption of electricity

The actual volume of electricity consumed increased by 0,2% (48 Gigawatt-hours) year-on-year in November 2011 (see Tables A, 2 and 9a). Electricity consumption for the three months ended November 2011 increased by 0,4% (238 Gigawatt-hours) compared with the same period in 2010 (see Tables A and C). Seasonally adjusted electricity consumption increased by 0,6% for the three months ended November 2011 compared with the three months ended August 2011 (see Tables A and B).

### Production of electricity

The actual estimated electricity production increased by 0,2% year-on-year in November 2011 (see Table A). The estimated electricity production for the three months ended November 2011 increased by 0,4% compared with the same period in 2010 (see Table A). Seasonally adjusted electricity production increased by 1,1% in the three months ended November 2011 compared with the three months ended August 2011 (see Table A).

### Electricity delivered by Eskom to the provinces

Electricity delivered by Eskom to the provinces decreased by 1,2% (-214 Gigawatt-hours) in November 2011 compared with November 2010. The biggest decrease was reported for Western Cape (-115 Gigawatt-hours). The total volume of electricity delivered by Eskom to the provinces for the first eleven months of 2011 grew by 0,1% (267 Gigawatt-hours) compared with the same period in 2010 (see Table 10).

### International trade in electricity

The volume of electricity purchased from outside South African borders (imports) increased by 5,4% (55 Gigawatt-hours) in November 2011 compared with November 2010. For the first eleven months of 2011 imports decreased by 4,1% (-460 Gigawatt-hours) year-on-year (see Tables 9a and 9b).

The volume of electricity sold to neighbouring countries (exports) increased by 4,9% (65 Gigawatt-hours) year-on-year in November 2011. For the first eleven months of 2011 exports increased by 1,6% (219 Gigawatt-hours) year-on-year (see Tables 9a and 9b).

**Table B – Comparison of the seasonally adjusted volume of electricity generated and available for distribution between the three months ended November 2011 and the previous three months**

| Gigawatt-hours   | Seasonally adjusted quantity June to August 2011 | Seasonally adjusted quantity September to November 2011 | % change between June to August 2011 and September to November 2011 | Quantity difference between June to August 2011 and September to November 2011 |
|--|--|---|---|--|
| Electricity produced                                   | 64 877   | 65 573  | 1,1   | 696  |
| Electricity available for distribution in South Africa | 59 577   | 59 945  | 0,6   | 368  |

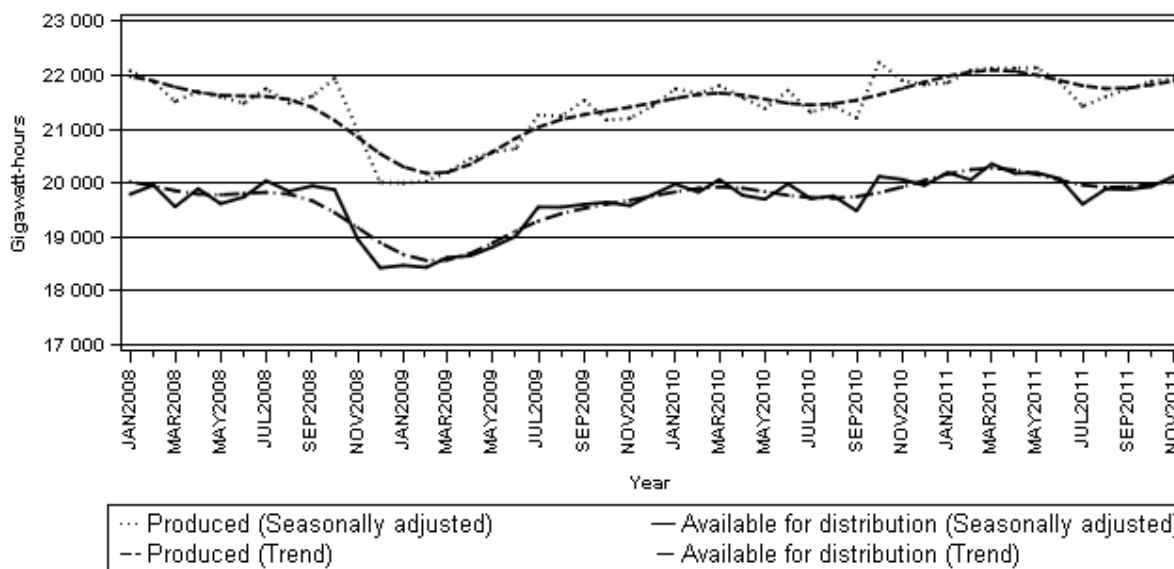
**Table C – Comparison of actual estimates between the three months ended November 2011 and the three months ended November 2010**

| Gigawatt-hours   | Actual volume September to November 2010 | Actual volume September to November 2011 | % change between September to November 2010 and September to November 2011 | Quantity difference between September to November 2010 and September to November 2011 |
|--|--|--|--|---|
| Electricity produced                                   | 65 224                                   | 65 439                                   | 0,4  | 215   |
| Purchased outside South Africa (import) 1/             | 2 856                                    | 2 958                                    | 3,6  | 102   |
| Consumed in power stations and auxiliary systems       | 4 849                                    | 4 785                                    | -1,3   | -64   |
| Sold outside South Africa (export) 2/                  | 3 902                                    | 4 047                                    | 3,7  | 145   |
| Electricity available for distribution in South Africa | 59 329                                   | 59 567                                   | 0,4  | 238   |

1/ Physical energy flowing into South Africa as measured by the metering systems at the South African borders.

2/ Physical energy flowing out of South Africa as measured by the metering systems at the South African borders.

**Figure 1 – Electricity produced and available for distribution in South Africa, seasonally adjusted and trend**



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**Tables**

**Table 1 – Total volume of electricity available for distribution in South Africa: 2006–2011**

| Month     | Gigawatt-hours |                |                |                |                |           |
|-----------|----------------|----------------|----------------|----------------|----------------|-----------|
|           | 2006           | 2007           | 2008           | 2009           | 2010           | 2011      |
| January   | 18 603         | 19 561         | 19 256         | 17 919         | 19 396         | 19 616    |
| February  | 17 396         | 18 301         | 18 668         | 16 757         | 18 181         | 18 455    |
| March     | 18 982         | 20 160         | 19 603         | 18 694         | 20 186         | 20 518    |
| April     | 18 122         | 18 982         | 19 127         | 17 934         | 19 102         | 19 539    |
| May       | 20 312         | 20 901         | 20 365         | 19 548         | 20 435         | 20 938    |
| June      | 20 166         | 21 020         | 20 515         | 19 819         | 20 800         | 20 914    |
| July      | 20 632         | 21 780         | 21 610         | 21 151         | 21 307         | 21 162    |
| August    | 20 307         | 21 353         | 20 736         | 20 398         | 20 540         | 20 617    |
| September | 18 987         | 19 732         | 19 725         | 19 382         | 19 256         | 19 619    |
| October   | 19 663         | 20 435         | 20 138         | 19 899         | 20 371         | 20 198    |
| November  | 19 244         | 19 785         | 18 640         | 19 248         | 19 702         | 1/ 19 750 |
| December  | 18 909         | 19 160         | 17 541         | 18 850         | 18 996         |           |
| Year      | <b>231 323</b> | <b>241 170</b> | <b>235 924</b> | <b>229 599</b> | <b>238 272</b> |           |

1/ Preliminary.

**Table 2 – Annual percentage change in electricity available for distribution in South Africa: 2006–2011**

| Month     | Percentage change 2/ |            |             |             |            |      |
|-----------|----------------------|------------|-------------|-------------|------------|------|
|           | 2006                 | 2007       | 2008        | 2009        | 2010       | 2011 |
| January   | 2,5                  | 5,1        | -1,6        | -6,9        | 8,2        | 1,1  |
| February  | 1,3                  | 5,2        | 2,0         | -10,2       | 8,5        | 1,5  |
| March     | 2,7                  | 6,2        | -2,8        | -4,6        | 8,0        | 1,6  |
| April     | -0,1                 | 4,7        | 0,8         | -6,2        | 6,5        | 2,3  |
| May       | 5,7                  | 2,9        | -2,6        | -4,0        | 4,5        | 2,5  |
| June      | 6,2                  | 4,2        | -2,4        | -3,4        | 4,9        | 0,5  |
| July      | 5,0                  | 5,6        | -0,8        | -2,1        | 0,7        | -0,7 |
| August    | 5,8                  | 5,2        | -2,9        | -1,6        | 0,7        | 0,4  |
| September | 3,3                  | 3,9        | 0,0         | -1,7        | -0,7       | 1,9  |
| October   | 2,8                  | 3,9        | -1,5        | -1,2        | 2,4        | -0,8 |
| November  | 3,9                  | 2,8        | -5,8        | 3,3         | 2,4        | 0,2  |
| December  | 3,7                  | 1,3        | -8,4        | 7,5         | 0,8        |      |
| Year      | <b>3,6</b>           | <b>4,3</b> | <b>-2,2</b> | <b>-2,7</b> | <b>3,8</b> |      |

2/ The annual percentage change is the change in the volume of electricity available for distribution of the relevant month of the current year compared with the corresponding month of the previous year expressed as a percentage.

**Table 3 – Seasonally adjusted total volume of electricity available for distribution in South Africa: 2006–2011**

| Month     | Gigawatt-hours |        |        |        |        |        | % change between current and previous month |
|-----------|----------------|--------|--------|--------|--------|--------|---|
|           | 2006           | 2007   | 2008   | 2009   | 2010   | 2011   |   |
| January   | 19 090         | 20 062 | 19 794 | 18 475 | 19 980 | 20 193 | 1,2   |
| February  | 18 971         | 19 943 | 19 960 | 18 438 | 19 831 | 20 059 | -0,7  |
| March     | 18 962         | 20 141 | 19 561 | 18 621 | 20 066 | 20 356 | 1,5   |
| April     | 18 937         | 19 789 | 19 895 | 18 654 | 19 774 | 20 180 | -0,9  |
| May       | 19 557         | 20 146 | 19 618 | 18 816 | 19 700 | 20 190 | 0,0   |
| June      | 19 414         | 20 257 | 19 739 | 19 015 | 19 986 | 20 078 | -0,6  |
| July      | 19 221         | 20 280 | 20 042 | 19 556 | 19 715 | 19 608 | -2,3  |
| August    | 19 430         | 20 456 | 19 847 | 19 553 | 19 759 | 19 891 | 1,4   |
| September | 19 218         | 19 954 | 19 946 | 19 606 | 19 486 | 19 881 | -0,1  |
| October   | 19 346         | 20 147 | 19 878 | 19 644 | 20 123 | 19 935 | 0,3   |
| November  | 19 539         | 20 084 | 18 959 | 19 582 | 20 067 | 20 129 | 1,0   |
| December  | 19 716         | 20 008 | 18 429 | 19 784 | 19 957 |        |   |

**Table 4 – Indices of the physical volume of electricity production: 2006–2011**

| Month     | Base: 2005=100 |       |       |       |       |          |
|-----------|----------------|-------|-------|-------|-------|----------|
|           | 2006           | 2007  | 2008  | 2009  | 2010  | 2011     |
| January   | 99,8           | 103,9 | 105,3 | 95,0  | 103,4 | 104,0    |
| February  | 94,0           | 97,2  | 99,7  | 88,5  | 96,5  | 98,9     |
| March     | 103,3          | 107,8 | 105,6 | 99,3  | 107,4 | 109,2    |
| April     | 98,0           | 100,9 | 102,0 | 96,1  | 102,0 | 104,8    |
| May       | 108,1          | 111,9 | 109,6 | 104,5 | 108,5 | 112,2    |
| June      | 107,3          | 112,5 | 108,8 | 104,8 | 110,1 | 110,8    |
| July      | 110,8          | 116,6 | 115,1 | 112,8 | 113,0 | 113,2    |
| August    | 109,1          | 114,1 | 110,3 | 108,8 | 109,4 | 110,0    |
| September | 101,8          | 105,5 | 104,8 | 104,4 | 102,8 | 105,3    |
| October   | 107,2          | 109,1 | 109,4 | 105,6 | 110,8 | 109,2    |
| November  | 103,3          | 106,9 | 101,4 | 102,6 | 105,9 | 1/ 106,1 |
| December  | 100,9          | 104,6 | 93,6  | 100,3 | 102,1 |          |
| Year      | 103,6          | 107,6 | 105,5 | 101,9 | 106,0 |          |

1/ Preliminary.

**Table 5 – Annual percentage change in indices of the physical volume of electricity production: 2006–2011**

| Month     | Percentage change 2/ |      |       |       |      |      |
|-----------|----------------------|------|-------|-------|------|------|
|           | 2006                 | 2007 | 2008  | 2009  | 2010 | 2011 |
| January   | 2,3                  | 4,1  | 1,3   | -9,8  | 8,8  | 0,6  |
| February  | 2,5                  | 3,4  | 2,6   | -11,2 | 9,0  | 2,5  |
| March     | 3,1                  | 4,4  | -2,0  | -6,0  | 8,2  | 1,7  |
| April     | -0,1                 | 3,0  | 1,1   | -5,8  | 6,1  | 2,7  |
| May       | 5,1                  | 3,5  | -2,1  | -4,7  | 3,8  | 3,4  |
| June      | 5,6                  | 4,8  | -3,3  | -3,7  | 5,1  | 0,6  |
| July      | 5,0                  | 5,2  | -1,3  | -2,0  | 0,2  | 0,2  |
| August    | 5,9                  | 4,6  | -3,3  | -1,4  | 0,6  | 0,5  |
| September | 2,7                  | 3,6  | -0,7  | -0,4  | -1,5 | 2,4  |
| October   | 4,6                  | 1,8  | 0,3   | -3,5  | 4,9  | -1,4 |
| November  | 3,9                  | 3,5  | -5,1  | 1,2   | 3,2  | 0,2  |
| December  | 2,7                  | 3,7  | -10,5 | 7,2   | 1,8  |      |
| Year      | 3,7                  | 3,8  | -2,0  | -3,4  | 4,0  |      |

2/ The annual percentage change is the change in the index of the physical volume of electricity production of the relevant month of the current year compared with the corresponding month of the previous year expressed as a percentage.

**Table 6 – Seasonally adjusted indices of the physical volume of electricity production: 2006–2011**

| Month     | Base: 2005=100 |       |       |       |       |       | % change between current and previous month |
|-----------|----------------|-------|-------|-------|-------|-------|---|
|           | 2006           | 2007  | 2008  | 2009  | 2010  | 2011  |   |
| January   | 102,4          | 106,6 | 108,1 | 98,0  | 106,5 | 107,1 | 0,2   |
| February  | 103,0          | 106,6 | 107,2 | 98,1  | 106,1 | 108,2 | 1,0   |
| March     | 103,2          | 107,7 | 105,4 | 99,0  | 106,8 | 108,4 | 0,2   |
| April     | 102,5          | 105,4 | 106,3 | 100,2 | 105,7 | 108,4 | 0,0   |
| May       | 104,4          | 108,2 | 105,8 | 100,8 | 104,7 | 108,4 | 0,0   |
| June      | 103,6          | 108,9 | 105,2 | 101,1 | 106,4 | 107,1 | -1,2  |
| July      | 102,9          | 108,3 | 106,5 | 104,1 | 104,4 | 104,9 | -2,1  |
| August    | 104,1          | 108,9 | 105,2 | 104,0 | 104,9 | 105,8 | 0,9   |
| September | 102,8          | 106,5 | 105,8 | 105,5 | 103,9 | 106,5 | 0,7   |
| October   | 105,1          | 107,1 | 107,5 | 103,7 | 108,9 | 107,2 | 0,7   |
| November  | 104,7          | 108,2 | 102,7 | 103,8 | 107,3 | 107,5 | 0,3   |
| December  | 104,9          | 108,8 | 98,0  | 104,9 | 106,9 |       |   |

**Table 7 – Total volume of electricity imported: 2006–2011** 1/

| Month     | Gigawatt-hours |               |               |               |               |          |
|-----------|----------------|---------------|---------------|---------------|---------------|----------|
|           | 2006           | 2007          | 2008          | 2009          | 2010          | 2011     |
| January   | 872            | 1 088         | 638           | 1 102         | 1 122         | 1 088    |
| February  | 646            | 942           | 885           | 999           | 995           | 730      |
| March     | 581            | 973           | 802           | 1 064         | 1 040         | 1 112    |
| April     | 587            | 1 055         | 844           | 906           | 931           | 912      |
| May       | 879            | 900           | 761           | 937           | 1 074         | 907      |
| June      | 881            | 880           | 1 002         | 1 088         | 1 019         | 1 009    |
| July      | 926            | 984           | 1 089         | 1 040         | 1 117         | 979      |
| August    | 930            | 1 045         | 1 076         | 1 072         | 1 109         | 1 108    |
| September | 971            | 1 026         | 1 044         | 920           | 1 068         | 974      |
| October   | 682            | 1 040         | 645           | 1 115         | 770           | 911      |
| November  | 862            | 796           | 711           | 940           | 1 018         | 2/ 1 073 |
| December  | 965            | 619           | 1 075         | 1 112         | 930           |          |
| Year      | <b>9 782</b>   | <b>11 348</b> | <b>10 572</b> | <b>12 295</b> | <b>12 193</b> |          |

1/ Physical energy flowing into South Africa as measured by the metering systems at the South African borders.

2/ Preliminary.

**Table 8 – Total volume of electricity exported: 2006–2011** 1/

| Month     | Gigawatt-hours |               |               |               |               |          |
|-----------|----------------|---------------|---------------|---------------|---------------|----------|
|           | 2006           | 2007          | 2008          | 2009          | 2010          | 2011     |
| January   | 1 056          | 1 134         | 1 280         | 1 096         | 1 217         | 1 133    |
| February  | 1 050          | 1 060         | 1 101         | 979           | 1 128         | 1 069    |
| March     | 1 129          | 1 231         | 1 136         | 1 100         | 1 252         | 1 279    |
| April     | 1 017          | 1 132         | 998           | 1 086         | 1 170         | 1 190    |
| May       | 1 046          | 1 203         | 1 120         | 1 109         | 1 177         | 1 241    |
| June      | 1 102          | 1 256         | 1 162         | 1 175         | 1 132         | 1 174    |
| July      | 1 239          | 1 301         | 1 249         | 1 223         | 1 206         | 1 247    |
| August    | 1 262          | 1 252         | 1 220         | 1 235         | 1 275         | 1 298    |
| September | 1 239          | 1 186         | 1 203         | 1 285         | 1 248         | 1 288    |
| October   | 1 311          | 1 252         | 1 258         | 1 288         | 1 338         | 1 378    |
| November  | 1 186          | 1 256         | 1 252         | 1 213         | 1 316         | 2/ 1 381 |
| December  | 1 129          | 1 233         | 1 189         | 1 263         | 1 209         |          |
| Year      | <b>13 766</b>  | <b>14 496</b> | <b>14 168</b> | <b>14 052</b> | <b>14 668</b> |          |

1/ Physical energy flowing out of South Africa as measured by the metering systems at the South African borders.

2/ Preliminary.

**Table 9a – Electricity produced and consumed in power stations, purchased and sold outside South Africa and available for distribution in South Africa (monthly figures)**

|                              |   | Gigawatt-hours |               |                     |  |  |
|------------------------------|---|----------------|---------------|---------------------|--|--|
|                              |   | November 2010  | October 2011  | November 2011<br>1/ | % change between November 2010 and November 2011 | Difference between November 2010 and November 2011 |
| <b>Total - All producers</b> | Electricity produced  | 21 623         | 22 294        | 21 652              | 0,2  | 29   |
|                              | Purchased outside South Africa (import) 2/                    | 1 018          | 911           | 1 073               | 5,4  | 55   |
|                              | Consumed in power stations and auxiliary systems              | 1 623          | 1 630         | 1 594               | -1,8   | -29  |
|                              | Sold outside South Africa (export) 3/                         | 1 316          | 1 378         | 1 381               | 4,9  | 65   |
|                              | <b>Electricity available for distribution in South Africa</b> | <b>19 702</b>  | <b>20 198</b> | <b>19 750</b>       | <b>0,2</b>                                       | <b>48</b>  |
| <b>ESKOM</b>                 | Electricity produced  | 20 879         | 21 390        | 20 769              | -0,5   | -110   |
|                              | Purchased outside South Africa (import) 2/                    | 1 018          | 911           | 1 073               | 5,4  | 55   |
|                              | Consumed in power stations and auxiliary systems              | 1 551          | 1 569         | 1 524               | -1,7   | -27  |
|                              | Sold outside South Africa (export) 3/                         | 1 316          | 1 378         | 1 381               | 4,9  | 65   |
|                              | <b>Electricity available for distribution in South Africa</b> | <b>19 030</b>  | <b>19 354</b> | <b>18 937</b>       | <b>-0,5</b>                                      | <b>-93</b>   |

1/ Preliminary.

2/ Physical energy flowing into South Africa as measured by the metering systems at the South African borders.

3/ Physical energy flowing out of South Africa as measured by the metering systems at the South African borders.

**Table 9b – Electricity produced and consumed in power stations, purchased and sold outside South Africa and available for distribution in South Africa (cumulative figures)**

|                              |   | Gigawatt-hours           |                                |  |  |
|------------------------------|---|--------------------------|--------------------------------|--|--|
|                              |   | January to November 2010 | January to November 2011<br>1/ | % change between January to November 2010 and January to November 2011 | Difference between January to November 2010 and January to November 2011 |
| <b>Total - All producers</b> | Electricity produced  | 238 761                  | 241 616                        | 1,2  | 2 855  |
|                              | Purchased outside South Africa (import) 2/                    | 11 263                   | 10 803                         | -4,1   | -460   |
|                              | Consumed in power stations and auxiliary systems              | 17 286                   | 17 416                         | 0,8  | 130  |
|                              | Sold outside South Africa (export) 3/                         | 13 459                   | 13 678                         | 1,6  | 219  |
|                              | <b>Electricity available for distribution in South Africa</b> | <b>219 276</b>           | <b>221 326</b>                 | <b>0,9</b>   | <b>2 050</b>   |
| <b>ESKOM</b>                 | Electricity produced  | 231 028                  | 231 757                        | 0,3  | 729  |
|                              | Purchased outside South Africa (import) 2/                    | 11 263                   | 10 803                         | -4,1   | -460   |
|                              | Consumed in power stations and auxiliary systems              | 16 561                   | 16 681                         | 0,7  | 120  |
|                              | Sold outside South Africa (export) 3/                         | 13 459                   | 13 678                         | 1,6  | 219  |
|                              | <b>Electricity available for distribution in South Africa</b> | <b>212 267</b>           | <b>212 204</b>                 | <b>0,0</b>   | <b>-63</b>   |

1/ Preliminary.

2/ Physical energy flowing into South Africa as measured by the metering systems at the South African borders.

3/ Physical energy flowing out of South Africa as measured by the metering systems at the South African borders.



**Table 10 – Total volume of electricity delivered by Eskom to provinces for 2010 and 2011**

| Period       |               | Gigawatt-hours 1/ |              |               |               |               |               |               |               |                | Total South Africa |
|--------------|---------------|-------------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|--------------------|
|              |               | Western Cape      | Eastern Cape | Northern Cape | Free State    | KwaZulu-Natal | North West    | Gauteng       | Mpumalanga    | Limpopo        |                    |
| 2010         | January       | 1 932             | 780          | 404           | 751           | 3 540         | 2 182         | 4 806         | 2 845         | 991            | <b>18 231</b>      |
|              | February      | 1 842             | 719          | 383           | 706           | 3 281         | 2 029         | 4 592         | 2 658         | 917            | <b>17 127</b>      |
|              | March         | 2 037             | 809          | 405           | 780           | 3 629         | 2 273         | 5 086         | 2 926         | 1 032          | <b>18 977</b>      |
|              | April         | 1 873             | 750          | 362           | 735           | 3 432         | 2 100         | 4 959         | 2 813         | 970            | <b>17 994</b>      |
|              | May           | 1 931             | 825          | 365           | 788           | 3 550         | 2 241         | 5 468         | 3 080         | 979            | <b>19 227</b>      |
|              | June          | 1 946             | 828          | 378           | 813           | 3 559         | 2 159         | 5 836         | 3 011         | 991            | <b>19 521</b>      |
|              | July          | 2 013             | 877          | 400           | 824           | 3 684         | 2 204         | 5 978         | 2 948         | 1 062          | <b>19 990</b>      |
|              | August        | 1 968             | 827          | 386           | 779           | 3 595         | 2 167         | 5 360         | 2 802         | 1 038          | <b>18 922</b>      |
|              | September     | 1 851             | 784          | 383           | 675           | 3 474         | 2 094         | 4 857         | 2 580         | 1 054          | <b>17 752</b>      |
|              | October       | 1 911             | 846          | 429           | 724           | 3 577         | 2 276         | 5 009         | 2 907         | 1 088          | <b>18 767</b>      |
|              | November      | 1 882             | 820          | 406           | 703           | 3 433         | 2 201         | 4 911         | 2 968         | 1 033          | <b>18 357</b>      |
|              | December      | 1 907             | 781          | 418           | 694           | 3 371         | 2 004         | 4 645         | 2 945         | 1 044          | <b>17 809</b>      |
|              | Year          | 23 093            | 9 646        | 4 719         | 8 972         | 42 125        | 25 930        | 61 507        | 34 483        | 12 199         | <b>222 674</b>     |
| Year to date | <b>21 186</b> | <b>8 865</b>      | <b>4 301</b> | <b>8 278</b>  | <b>38 754</b> | <b>23 926</b> | <b>56 862</b> | <b>31 538</b> | <b>11 155</b> | <b>204 865</b> |                    |
| 2011         | January       | 1 962             | 777          | 408           | 721           | 3 417         | 2 187         | 4 738         | 3 052         | 1 021          | <b>18 283</b>      |
|              | February      | 1 881             | 734          | 372           | 665           | 3 256         | 2 044         | 4 394         | 2 808         | 937            | <b>17 091</b>      |
|              | March         | 2 031             | 773          | 417           | 774           | 3 631         | 2 292         | 4 955         | 3 017         | 1 063          | <b>18 953</b>      |
|              | April         | 1 877             | 726          | 389           | 753           | 3 432         | 2 159         | 5 016         | 2 946         | 992            | <b>18 290</b>      |
|              | May           | 1 980             | 811          | 406           | 772           | 3 624         | 2 283         | 5 435         | 3 106         | 1 000          | <b>19 417</b>      |
|              | June          | 1 966             | 826          | 417           | 812           | 3 527         | 2 097         | 5 804         | 2 945         | 1 020          | <b>19 414</b>      |
|              | July          | 2 014             | 876          | 428           | 814           | 3 639         | 2 086         | 5 971         | 2 852         | 972            | <b>19 652</b>      |
|              | August        | 1 985             | 884          | 414           | 783           | 3 574         | 2 029         | 5 727         | 2 830         | 960            | <b>19 186</b>      |
|              | September     | 1 752             | 840          | 418           | 688           | 3 381         | 2 172         | 4 985         | 2 788         | 1 028          | <b>18 052</b>      |
|              | October       | 1 801             | 840          | 447           | 709           | 3 547         | 2 268         | 4 991         | 2 997         | 1 051          | <b>18 651</b>      |
|              | November 2/   | 1 767             | 840          | 428           | 666           | 3 429         | 2 248         | 4 814         | 2 916         | 1 035          | <b>18 143</b>      |
|              | Year to date  | <b>21 016</b>     | <b>8 927</b> | <b>4 544</b>  | <b>8 157</b>  | <b>38 457</b> | <b>23 865</b> | <b>56 830</b> | <b>32 257</b> | <b>11 079</b>  | <b>205 132</b>     |

1/ Wholesale energy (Gigawatt-hours) as delivered by Eskom to the various provinces.

2/ Preliminary.

## Explanatory Notes

- Introduction**
- 1 Statistics South Africa (Stats SA) conducts a monthly sample survey of the electricity industry covering electricity undertakings and establishments (branches). This statistical release contains information regarding the volume of electricity units generated and available for distribution in South Africa, the volume of units purchased and sold outside South Africa and the volume of units distributed by Eskom by province on a monthly basis. Both actual and seasonally adjusted figures are published.
  - 2 This statistical release reflects indices of the physical volume of electricity production on the basis of 2005=100. In accordance with international practice, the indices have to be rebased every five years to a new base year.
  - 3 In order to improve timeliness of the publication, some information for the current month may have been estimated due to late submission by respondents. These estimates will be revised in the next statistical release(s) as soon as actual information is available.
- Purpose of the survey**
- 4 The results of the monthly electricity generated and available for distribution survey are used to compile estimates of the gross domestic product (GDP) and its components, which are used in monitoring the state of the economy and formulation of economic policy.
- Scope of the survey**
- 5 This survey covers electricity undertakings and establishments conducting activities concerned with the generation or transmission and distribution of electricity. It includes electrical power installations, which, as subsidiary divisions of undertakings, produce electricity for regular use by these undertakings.
- Classification**
- 6 The 1993 edition of the *Standard Industrial Classification of all Economic Activities (SIC)*, Fifth Edition, Report No. 09-90-02, was used to classify the statistical units in the survey. The SIC is based on the 1990 *International Standard Industrial Classification of all Economic Activities (ISIC)* with suitable adaptations for local conditions. Each statistical unit is classified to an industry, which reflects the predominant activity of the electricity undertaking or establishment.
- Response rate**
- 7 The response rate for the survey on electricity generated and available for distribution for November 2011 was 99%.
- Statistical unit**
- 8 The basic statistical unit for the collection of information is the electricity undertaking or establishment. The electricity undertaking or establishment is the smallest economic unit that functions as a separate entity. Each statistical unit is classified to an industry (see paragraph 5).
- Survey methodology and design**
- 9 All statistical units are stratified by type of economic activity according to the *Standard Industrial Classification of all Economic Activities (SIC)* and measure of size, where measure of size is the volume of electricity generated by the electricity undertaking or establishment. All large undertakings or establishments (size category one cases) are completely enumerated. A sample is drawn from medium and small size undertakings and establishments by systematically selecting undertakings or establishments within each size category. An electricity undertaking or establishment with a total generating capacity of less than 500 kilowatt is excluded from the sample.
  - 10 The survey is conducted by mail, email and telephone. Information is collected from a sample of 23 electricity undertakings or establishments.
- Monthly production indices**
- 11 The calculation of the monthly production indices is based on the volume of electricity units produced.

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|                                |           |  |
|--------------------------------|-----------|--|
| <b>Benchmarking</b>            | <b>12</b> | The index of physical volume of electricity production should provide an accurate reflection of the trend of activities of the relevant industry. The level of activities, as measured by the monthly electricity generated and available for distribution survey, is based on information received from a sample of electricity undertakings and establishments. These levels are weighted according to the original sample and designed to represent the population of electricity undertakings and establishments. It is necessary to adjust the level of activities as measured by the monthly sample survey to the level of activities as measured periodically by the Census of electricity, gas and steam. This procedure, whereby the latest results of an economic census are used to compile more accurate level estimates for a certain year, is known as benchmarking.   |
|                                | <b>13</b> | The results of the 1995 Census of electricity, gas and steam served as a benchmark to verify or adjust the level of the monthly physical volume of electricity production indices collected through the monthly sample survey. The level adjustments were done on the volume indices for August of the relevant census year (the 1995 census year covered the period 1 January 1995 to 31 December 1995 and therefore, the benchmarking was done using the index of August 1995 as reference point).   |
| <b>Seasonal adjustment</b>     | <b>14</b> | Seasonally adjusted estimates of all items are generated each month, using the X-12-ARIMA Seasonal Adjustment Program developed by US Bureau of the Census Economic Research and Analyses Division, 1968. Seasonal adjustment is a means of removing the estimated effects of normal seasonal variation from the series so that the effects of other influences on the series can be more clearly recognized. Seasonal adjustment does not aim to remove irregular or non-seasonal influences, which may be present in any particular month. Influences that are volatile or unsystematic can still make it difficult to interpret the movement of the series even after adjustment for seasonal variations. This means the month-to-month movements of seasonally adjusted estimates may not be reliable indicators of trend behaviour. The X12-ARIMA procedure for electricity generated and available for distribution is described in more detail on the Stats SA website at <a href="http://www.statssa.gov.za/publications/P4141/electricity_seasonal_adjustment_note_2011.pdf">http://www.statssa.gov.za/publications/P4141/electricity_seasonal_adjustment_note_2011.pdf</a> |
| <b>Trend cycle</b>             | <b>15</b> | The trend is the long-term pattern or movement of a time series. The X-12-ARIMA Seasonal Adjustment Program is used for smoothing seasonally adjusted estimates.   |
| <b>Related publications</b>    | <b>16</b> | Users may also wish to refer to the following publications which are available from Stats SA : <ul style="list-style-type: none"><li>• <i>Bulletin of Statistics</i>; and</li><li>• <i>SA Statistics</i>.</li></ul>  |
| <b>Rounding-off of figures</b> | <b>17</b> | Where necessary, the figures in the tables have been rounded off to the nearest digit shown. There may therefore be slight discrepancies between the sums of the constituent items and the totals shown.   |

## Glossary

|   |   |     |                        |      |  |     |   |          |                         |   |                 |
|---|---|-----|------------------------|------|--|-----|---|----------|-------------------------|---|-----------------|
| <b>Consumption of electricity</b>                         | For purposes of this release the term 'consumption of electricity' is used interchangeably with the term 'electricity available for distribution'.  |     |                        |      |  |     |   |          |                         |   |                 |
| <b>Electricity undertaking</b>                            | An electricity undertaking is an undertaking concerned with the generation or transmission and distribution of electricity, including electrical power installations, which, as subsidiary divisions of undertakings, produce electricity for regular use by these undertakings.  |     |                        |      |  |     |   |          |                         |   |                 |
| <b>Index of physical volume of electricity production</b> | A statistical measure of the change in the volume of production of electricity in a given period and the volume of production of electricity in the base period. The base period is 2005. The production in the base period is set at 100.  |     |                        |      |  |     |   |          |                         |   |                 |
| <b>Industry</b>   | An industry consists of a group of undertakings or establishments engaged in the same or similar kinds of economic activity. Industries are defined in the 1993 <i>System of National Accounts (1993 SNA)</i> in the same way as in the <i>Standard Industrial Classification of all Economic Activities (SIC)</i> , Fifth Edition, Report No. 09-90-02.  |     |                        |      |  |     |   |          |                         |   |                 |
| <b>Unit of electricity</b>                                | One gigawatt-hour of electricity is equal to one million kilowatt-hours. A kilowatt-hour is the basic unit of electrical energy equal to one kilowatt of power supplied to or taken from an electric circuit steadily for one hour. One kilowatt-hour equals one thousand watt-hours.   |     |                        |      |  |     |   |          |                         |   |                 |
| <b>Symbols and abbreviations</b>                          | <table border="0"> <tr> <td style="padding-right: 10px;">GDP</td> <td>Gross domestic product</td> </tr> <tr> <td>ISIC</td> <td>International Standard Industrial Classification</td> </tr> <tr> <td>SIC</td> <td>Standard Industrial Classification of all Economic Activities</td> </tr> <tr> <td>Stats SA</td> <td>Statistics South Africa</td> </tr> <tr> <td>*</td> <td>Revised figures</td> </tr> </table> | GDP | Gross domestic product | ISIC | International Standard Industrial Classification | SIC | Standard Industrial Classification of all Economic Activities | Stats SA | Statistics South Africa | * | Revised figures |
| GDP   | Gross domestic product  |     |                        |      |  |     |   |          |                         |   |                 |
| ISIC  | International Standard Industrial Classification  |     |                        |      |  |     |   |          |                         |   |                 |
| SIC   | Standard Industrial Classification of all Economic Activities   |     |                        |      |  |     |   |          |                         |   |                 |
| Stats SA  | Statistics South Africa   |     |                        |      |  |     |   |          |                         |   |                 |
| *   | Revised figures   |     |                        |      |  |     |   |          |                         |   |                 |

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