

Dipalopalo tsa Aforika Borwa • Statistikke Suid-Afrika • Tistatistiki ta Afrika-Dzonga • Ukuqokelelwa kwamanani eNingizimu Afrika

# Generation and consumption of electricity

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Stats SA publishes approximately three hundred different releases each year. It is not economically viable to produce them in more than one of South Africa's eleven official languages. Since the releases are used extensively, not only locally, but also by international economic and social-scientific communities, Stats SA releases are published in English only.

This data in this statistical release adheres to the Special Data Dissemination Standard (SDDS) of the International Monetary Fund (IMF), which sets out standards on coverage, periodicity and timeliness of data; access by the public; integrity; and quality of the disseminated data. Embargo: 13:00 Date: 9 January 2003

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### Key findings as at the end of November 2002

### Consumption of electricity increases

The consumption of electricity for the three months ended November 2002, after seasonal adjustment, increased by 0,5% (+240 Gigawatt-hours) compared with the previous three months. The consumption of electricity for November 2002 increased by 6,5% (+1 044 Gigawatt-hours) compared with November 2001. Furthermore, the consumption of electricity in South Africa for the first eleven months of 2002 increased by 3,4% (+6 068 Gigawatt-hours) compared with the first eleven months of 2001.

#### Production of electricity increases

The production of electricity for the three months ended November 2002, after seasonal adjustment, increased by 1,3% (+681 Gigawatt-hours) compared with the previous three months. The production of electricity for November 2002 increased by 7,7% (+1 324 Gigawatt-hours) compared with November 2001. Furthermore, the production of electricity in South Africa for the first eleven months of 2002 increased by 3,2% (+6 221 Gigawatt-hours) compared with the first eleven months of 2001.

#### Import of electricity decreases

The seasonally adjusted import of electricity from neighbouring countries for the three months ended November 2002 decreased by 30,5% (-672 Gigawatt-hours) compared with the previous three months. The import of electricity for November 2002 decreased by 25,0% (-159 Gigawatt-hours) compared with November 2001. However, the import of electricity in South Africa for the first eleven months of 2002 increased by 9,8% (+643 Gigawatt-hours) compared with the first eleven months of 2001.

#### Export of electricity decreases

The seasonally adjusted export of electricity for the three months ended November 2002 decreased by 11,3% (-200 Gigawatt-hours) compared with the previous three months. However, the export of electricity for November 2002 increased by 0,3% (+2 Gigawatt-hours) compared with November 2001. The export of electricity for the first eleven months of 2002 increased by 6,2% (+370 Gigawatt-hours) compared with the first eleven months of 2001.

### Key figures as at the end of November 2002

| Actual estimates  | November<br>2002 | % change<br>between<br>November 2001<br>and<br>November 2002 | % change<br>between<br>September 2001 to<br>November 2001<br>and<br>September 2002 to<br>November 2002 | % change<br>between<br>January 2001 to<br>November 2001<br>and<br>January 2002 to<br>November 2002 |  |
|---|------------------|--|--|--|--|
| Electricity consumed<br>(Gigawatt-hours)                                | 17,004           | +6.5   | +4.9   | +3.4   |  |
| Electricty imported<br>(Gigawatt-hours)                                 | 477              | -25.0  | -15.5  | +9.8   |  |
| Electricty exported<br>(Gigawatt-hours)                                 | 600              | +0.3   | +2.5   | +6.2   |  |
| Index of the physical<br>volume of electricity<br>production (2000=100) | 104.9            | +7.7   | +5.4   | +3.2   |  |

| Seasonally adjusted<br>estimates  | November<br>2002 | % change<br>between<br>October 2002<br>and<br>November 2002 | % change<br>between<br>June 2002 to<br>August 2002<br>and<br>September 2002 to<br>November 2002 |
|---|------------------|---|---|
| Electricity consumed<br>(Gigawatt-hours)                                | 17,309           | +0.7  | +0.5  |
| Electricty imported<br>(Gigawatt-hours)                                 | 440              | -4.8  | -30.5   |
| Electricty exported<br>(Gigawatt-hours)                                 | 515              | +0.6  | -11.3   |
| Index of the physical<br>volume of electricity<br>production (2000=100) | 106.5            | +1.0  | +1.3  |

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### Notes

| Forthcoming issues    | Issue   | Expected release date  |
|-----------------------|---|--|
|                       | December 2002   | 6 February 2003  |
| Purpose of the survey | The Generation and Consumpt<br>sample of electricity undertaki<br>the generation or transmission<br>The information received is use<br>indices in order to compile<br>components, which are used to | ion of Electricity Survey is a countrywide survey covering a<br>ngs and establishments conducting activities concerned with<br>and distribution of electricity in the South African economy.<br>ed to estimate key economic statistics and calculate production<br>estimates of the Gross Domestic Product (GDP) and its<br>formulate and monitor government policy. |

### **Additional information**

### **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 number of electricity units produced and consumed in South Africa and the number of units purchased and sold outside South Africa 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. In accordance with international practice, the indices have to be rebased every five years to a new base year. The indices in this statistical release have been calculated on the basis of 2000=100. Rebased indices were published in the October 2001 Statistical release P4141 - Generation and Consumption of Electricity on 6 December 2001.   |
|                                  | 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.  |
| Scope of the survey              | 4  | This survey covers electricity undertakings and establishments conducting activities 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.  |
| Classification                   | 5  | 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.  |
| Statistical unit                 | 6  | 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 (cf. paragraph 5).  |
| Survey methodology<br>and design | 7  | 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. |
|                                  | 8  | The survey is conducted by mail each month collecting information from a sample of 22 electricity undertakings or establishments.  |
| Monthly production indices       | 9  | The calculation of the monthly production indices is based on the number of electricity units produced.  |
| Benchmarking                     | 10 | 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 Generation and Consumption of Electricity sample survey is based on information received from a sample of electricity undertakings and establishments which is weighted according to the original sample design in order 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.

- 11 The results of the 1995 Census of Electricity, Gas and Steam served as benchmarks 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 July 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 July 1995 as reference point). The results, due to benchmarking, were published in the October 1997 statistical release P4141 - Generation and Consumption of Electricity on 4 December 1997.
- Seasonal adjustment 12 Seasonally adjusted estimates of all items are generated each month, using the X-11 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 recognised. 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.
- Trend cycle13The trend is the long-term pattern or movement of a time series. The X-11 Seasonal<br/>Adjustment Program is used for smoothing seasonally adjusted estimates.
- Related publications 14 Users may also wish to refer to the following publications which are available from Stats SA -
  - Bulletin of Statistics.
  - SA Statistics.
- Unpublished statistics 15 In some cases Stats SA can also make available statistics which are not published. The statistics can be made available as computer printouts, on diskette or CD. Generally a charge is made for providing unpublished statistics.
- **Rounding-off of figures** 16 The figures in the tables have, where necessary, 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.
- **Pre-release policy** 17 Stats SA has adopted the confidential pre-release policy in respect of selected economic indicators and specific government departments. The policy accords with practice among leading statistical agencies. The statistical integrity of the indices and strict observance of the release time has been assured by the following procedure:
  - 18 In respect of this statistical release, an official representative from the Office of the President, the Department of Trade and Industry, the Department of Finance and the South African Reserve Bank will receive a copy of the release on a strictly confidential basis two hours in advance of the public issue.
    - 19 Stats SA pre-release policy may be inspected at its Website, www.statssa.gov.za

### **Technical notes**

Response rates

The response rate for the survey on the generation and consumption of electricity for November 2002 is 95.5%.

### Glossary

| Electricity undertaking                               | 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.   |
|---|---|
| Establishment (branch)                                | An establishment (branch) is defined as the smallest economic unit, which operates as a separate entity for which comprehensive financial records are kept.   |
| Index of physical volume of<br>electricity production | The index of physical volume of electricity production or a production index is a statistical measure of the change in the volume of production. The production index of electricity is the ratio between 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 2000. The production in the base period is set at 100. |
| Industry  | An industry consists of a group of undertakings or establishments engaged in the same<br>or similar kinds of economic activity. Industries are defined in the 1993 System of<br>National Accounts (1993 SNA) in the same way as in the Standard Industrial<br>Classification of all Economic Activities (SIC), Fifth Edition, Report No. 09-90-02.  |
| Unit of electricity                                   | One unit of electricity is equal to 1 kilowatt-hour (kWh). One gigawatt-hours (gWh) of electricity is equal to one million kilowatt-hours.  |

|           | Gigawatt-hours |         |         |         |         |        |  |  |
|-----------|----------------|---------|---------|---------|---------|--------|--|--|
| Month     | 1997           | 1998    | 1999    | 2000    | 2001    | 2002   |  |  |
| January   | 15,009         | 15,403  | 15,153  | 15,512  | 16,064  | 15,968 |  |  |
| February  | 14,088         | 14,459  | 14,360  | 15,224  | 14,871  | 15,005 |  |  |
| March     | 15,155         | 15,714  | 15,791  | 16,225  | 16,320  | 16,353 |  |  |
| April     | 15,247         | 14,923  | 15,063  | 15,399  | 15,515  | 16,172 |  |  |
| May       | 16,423         | 16,261  | 16,327  | 17,064  | 16,929  | 17,642 |  |  |
| June      | 16,474         | 16,280  | 16,393  | 16,818  | 16,788  | 17,763 |  |  |
| July      | 17,187         | 16,867  | 17,051  | 17,759  | 18,021  | 18,743 |  |  |
| August    | 16,303         | 16,417  | 16,708  | 17,214  | 17,300  | 17,842 |  |  |
| September | 15,503         | 15,536  | 15,937  | 16,180  | 16,277  | 16,892 |  |  |
| October   | 16,005         | 15,957  | 16,322  | 16,709  | 16,794  | 17,523 |  |  |
| November  | 15,235         | 15,136  | 15,831  | 16,161  | 15,960  | 17,004 |  |  |
| December  | 14,878         | 14,563  | 15,184  | 15,395  | 15,224  |        |  |  |
| Year      | 187,507        | 187,516 | 190,120 | 195,660 | 196,063 |        |  |  |

 Table 1 - Total volume of electricity consumed in South Africa (SA): 1997 to 2002
 Gigawatt-hours

Table 2 - Seasonally adjusted total volume of electricity consumed in SA: 1997 to 2002 Gigawatt-bours

| Gigawatt-noui s |        |        |        |        |        |        |
|-----------------|--------|--------|--------|--------|--------|--------|
| Month           | 1997   | 1998   | 1999   | 2000   | 2001   | 2002   |
| January         | 15,316 | 15,735 | 15,479 | 15,839 | 16,411 | 16,306 |
| February        | 15,405 | 15,801 | 15,705 | 16,666 | 16,275 | 16,418 |
| March           | 15,106 | 15,691 | 15,765 | 16,202 | 16,239 | 16,248 |
| April           | 16,024 | 15,647 | 15,767 | 16,160 | 16,164 | 16,851 |
| May             | 15,795 | 15,615 | 15,704 | 16,403 | 16,256 | 16,922 |
| June            | 15,691 | 15,572 | 15,737 | 16,135 | 16,109 | 17,029 |
| July            | 15,781 | 15,537 | 15,753 | 16,397 | 16,606 | 17,271 |
| August          | 15,383 | 15,562 | 15,873 | 16,373 | 16,469 | 17,023 |
| September       | 15,703 | 15,664 | 16,068 | 16,294 | 16,428 | 17,066 |
| October         | 15,782 | 15,666 | 16,017 | 16,389 | 16,480 | 17,188 |
| November        | 15,625 | 15,493 | 16,164 | 16,471 | 16,250 | 17,309 |
| December        | 15,899 | 15,547 | 16,170 | 16,459 | 16,290 |        |

|           | Dase: (2000=100) |       |       |       |       |       |  |
|-----------|------------------|-------|-------|-------|-------|-------|--|
| Month     | 1997             | 1998  | 1999  | 2000  | 2001  | 2002  |  |
| January   | 95.9             | 97.1  | 94.7  | 92.5  | 98.6  | 97.1  |  |
| February  | 89.9             | 91.1  | 89.0  | 91.2  | 90.1  | 90.5  |  |
| March     | 97.0             | 98.0  | 97.0  | 100.9 | 98.5  | 98.5  |  |
| April     | 97.1             | 93.5  | 90.1  | 95.9  | 93.6  | 97.8  |  |
| May       | 104.4            | 102.2 | 98.0  | 106.3 | 103.0 | 108.1 |  |
| June      | 104.8            | 102.2 | 98.9  | 104.9 | 101.1 | 108.6 |  |
| July      | 109.9            | 106.2 | 104.0 | 107.8 | 111.1 | 114.2 |  |
| August    | 104.5            | 99.1  | 101.8 | 105.5 | 108.0 | 108.5 |  |
| September | 100.0            | 96.6  | 96.9  | 99.1  | 100.5 | 103.5 |  |
| October   | 102.6            | 99.8  | 99.1  | 103.1 | 102.7 | 108.3 |  |
| November  | 97.4             | 94.1  | 96.0  | 99.1  | 97.4  | 104.9 |  |
| December  | 94.6             | 89.8  | 90.8  | 93.8  | 92.1  |       |  |
| Year      | 99.8             | 97.5  | 96.4  | 100.0 | 99.7  |       |  |

Table 3 - Indices of the physical volume of electricity production: 1997 to 2002 Base: (2000=100)

 Table 4 - Seasonally adjusted indices of the physical volume of electricity production: 1997 to 2002
 Base: (2000=100)

| Dase. (2000–100) |       |      |      |       |       |       |  |
|------------------|-------|------|------|-------|-------|-------|--|
| Month            | 1997  | 1998 | 1999 | 2000  | 2001  | 2002  |  |
| January          | 98.1  | 99.3 | 96.8 | 94.5  | 100.9 | 99.3  |  |
| February         | 98.2  | 99.4 | 97.3 | 99.9  | 99.0  | 99.6  |  |
| March            | 97.2  | 98.2 | 97.1 | 101.0 | 98.6  | 98.6  |  |
| April            | 102.5 | 98.7 | 95.0 | 101.2 | 98.7  | 103.1 |  |
| May              | 100.8 | 98.4 | 94.2 | 102.1 | 98.8  | 103.6 |  |
| June             | 100.0 | 97.9 | 94.9 | 100.7 | 97.0  | 104.2 |  |
| July             | 100.7 | 97.4 | 95.3 | 98.6  | 101.6 | 104.3 |  |
| August           | 98.6  | 93.7 | 96.5 | 100.2 | 102.8 | 103.3 |  |
| September        | 100.7 | 97.1 | 97.3 | 99.4  | 100.9 | 104.0 |  |
| October          | 100.7 | 97.6 | 96.7 | 100.4 | 99.9  | 105.4 |  |
| November         | 99.6  | 96.2 | 98.0 | 100.9 | 98.9  | 106.5 |  |
| December         | 101.1 | 96.2 | 97.5 | 101.0 | 99.3  |       |  |

| _         | Gigawatt-noui s |       |       |       |      |  |
|-----------|-----------------|-------|-------|-------|------|--|
| Month     | 1998            | 1999  | 2000  | 2001  | 2002 |  |
| January   | 11              | 185   | 683   | 569   | 670  |  |
| February  | 52              | 201   | 529   | 488   | 643  |  |
| March     | 159             | 302   | 6     | 665   | 783  |  |
| April     | 176             | 682   | 24    | 774   | 733  |  |
| May       | 133             | 719   | 20    | 629   | 658  |  |
| June      | 187             | 654   | 2     | 797   | 704  |  |
| July      | 141             | 515   | 599   | 479   | 702  |  |
| August    | 667             | 613   | 476   | 282   | 721  |  |
| September | 203             | 679   | 495   | 507   | 637  |  |
| October   | 161             | 688   | 506   | 713   | 454  |  |
| November  | 273             | 644   | 601   | 636   | 477  |  |
| December  | 212             | 791   | 778   | 708   |      |  |
| Year      | 2,375           | 6,673 | 4,719 | 7,247 |      |  |

 Table 5 - Total volume of electricity imported: 1998 to 2002
 Gigawatt-hours

 Table 6 - Total volume of electricity exported: 1998 to 2002
 Gigawatt-hours

|           | Gigawatt-flours |       |       |       |      |  |
|-----------|-----------------|-------|-------|-------|------|--|
| Month     | 1998            | 1999  | 2000  | 2001  | 2002 |  |
| January   | 330             | 346   | 197   | 616   | 558  |  |
| February  | 360             | 267   | 169   | 470   | 478  |  |
| March     | 325             | 248   | 196   | 498   | 529  |  |
| April     | 367             | 217   | 155   | 463   | 525  |  |
| May       | 388             | 318   | 213   | 508   | 578  |  |
| June      | 429             | 347   | 193   | 496   | 601  |  |
| July      | 472             | 381   | 363   | 543   | 614  |  |
| August    | 350             | 465   | 389   | 569   | 605  |  |
| September | 343             | 480   | 458   | 581   | 628  |  |
| October   | 400             | 440   | 540   | 630   | 626  |  |
| November  | 465             | 432   | 525   | 598   | 600  |  |
| December  | 303             | 325   | 609   | 547   |      |  |
| Year      | 4,532           | 4,266 | 4,007 | 6,519 |      |  |

## Table 7 - Electricity produced and consumed in power stations, purchased and sold outside South Africa and consumed in South Africa

|  | (Olgawatt=1      | iloui s)        |                  |   |   |  |
|--|------------------|-----------------|------------------|---|---|--|
| Description  | November<br>2001 | October<br>2002 | November<br>2002 | January<br>2001<br>to<br>November<br>2001 | January<br>2002<br>to<br>November<br>2002 | Percentage<br>change<br>between<br>January 2001 to<br>November 2001<br>and<br>January 2002 to<br>November 2002 |
| Total - All Producers                              |                  |                 |                  |   |   |  |
| Electricity produced                               | 17,096           | 19,012          | 18,420           | 193,935                                   | 200,156                                   | + 3.2  |
| Purchased outside South Africa (import)            | 636              | 454             | 477              | 6,539                                     | 7,182                                     | + 9.8  |
| Consumed in power stations and auxilliary systems  | 1,174            | 1,317           | 1,293            | 13,665                                    | 14,092                                    | + 3.1  |
| Sold outside South Africa (export)                 | 598              | 626             | 600              | 5,972                                     | 6,342                                     | + 6.2  |
| Electricity consumed in South Africa <sup>1/</sup> | 15,960           | 17,523          | 17,004           | 180,839                                   | 186,907                                   | + 3.4  |
| Eskom  |                  |                 |                  |   |   |  |
| Electricity produced                               | 16,457           | 18,311          | 17,767           | 185,232                                   | 192,480                                   | + 3.9  |
| Purchased outside South Africa (import)            | 636              | 454             | 477              | 6,539                                     | 7,182                                     | + 9.8  |
| Consumed in power stations and auxilliary systems  | 1,089            | 1,230           | 1,224            | 12,598                                    | 13,141                                    | + 4.3  |
| Sold outside South Africa (export)                 | 598              | 626             | 600              | 5,972                                     | 6,342                                     | + 6.2  |
| Electricity consumed in South Africa <sup>1/</sup> | 15,406           | 16,908          | 16,420           | 173,200                                   | 180,182                                   | + 4.0  |

(Gigawatt-hours)

<sup>1/</sup> As indicated by electricity available for distribution

| Month     | Western Cape | Eastern Cape | Northern Cape | Free State | North West |
|-----------|--------------|--------------|---------------|------------|------------|
| January   | 1,565        | 576          | 373           | 749        | 2,105      |
| February  | 1,539        | 579          | 355           | 707        | 1,933      |
| March     | 1,665        | 613          | 365           | 769        | 2,136      |
| April     | 1,522        | 566          | 310           | 741        | 2,137      |
| May       | 1,597        | 618          | 316           | 821        | 2,306      |
| June      | 1,656        | 615          | 318           | 811        | 2,254      |
| July      | 1,760        | 635          | 347           | 853        | 2,331      |
| August    | 1,763        | 592          | 355           | 813        | 2,323      |
| September | 1,632        | 552          | 359           | 784        | 2,199      |
| October   | 1,690        | 586          | 398           | 816        | 2,342      |
| November  | 1,659        | 568          | 352           | 796        | 2,286      |
| December  |              |              |               |            |            |
| Year      | 18,048       | 6,500        | 3,848         | 8,660      | 24,352     |

 Table 8 - Electricity distributed by Eskom according to province for the year 2002
 Gigawatt-hours

| Month     | KwaZulu-Natal | Mpumalanga | Gauteng | Limpopo | <b>Total RSA</b> |
|-----------|---------------|------------|---------|---------|------------------|
| January   | 3,054         | 2,083      | 4,012   | 675     | 15,192           |
| February  | 2,844         | 1,898      | 3,795   | 618     | 14,268           |
| March     | 3,119         | 2,125      | 4,195   | 703     | 15,690           |
| April     | 3,027         | 2,068      | 4,005   | 651     | 15,027           |
| May       | 3,241         | 2,250      | 4,591   | 730     | 16,470           |
| June      | 3,140         | 2,130      | 4,841   | 689     | 16,454           |
| July      | 3,262         | 2,220      | 5,267   | 747     | 17,422           |
| August    | 3,234         | 2,191      | 4,621   | 759     | 16,651           |
| September | 3,111         | 2,132      | 4,250   | 744     | 15,763           |
| October   | 3,260         | 2,156      | 4,368   | 776     | 16,393           |
| November  | 3,166         | 2,123      | 4,206   | 737     | 15,894           |
| December  |               |            |         |         |                  |
| Year      | 34,458        | 23,376     | 48,151  | 7,829   | 175,222          |

### For more information

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