### Ministry of Climate

# Annual Report on the basis of Article 24(1) of Directive 2012/27/EU on energy efficiency

Warsaw, April 2020

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#### 1. INTRODUCTION

This report was drawn up on the basis of Article 8(10) of the Energy Efficiency Act of 20 May 2016 (Journal of Laws 2020, item 264). In accordance with Article 24(1) of and Part I of Annex XIV to Directive 2012/27/EU on energy efficiency (OJ L 315, 14.11.2012, p. 1), EU Member States are required to send the European Commission an annual report on progress towards achieving the national energy efficiency target.

This document was drawn up at the Ministry of Climate with input from the Ministry of Development and Statistics Poland (*Główny Urząd Statystyczny, GUS*).

The Minister for Development is responsible for reporting on the exemplary role of public bodies' buildings (Article 5 of Directive 2012/27/EU).

## 2. Data on energy consumption pursuant to Part I of Annex XIV to Directive 2012/27/EU

Table 1. Data for 2018 (under Part I of Annex XIV to Directive 2012/27/EU)

| Information   | Unit                        | 2018    | Remarks   |
|---|-----------------------------|---------|---|
| (i) primary energy consumption  | ktoe                        | 100940  | as defined in Directive 2012/27/EU                                    |
| (ii) total final energy consumption (iii) final energy consumption by sector:                     | ktoe                        | 76396   | includes non-energy consumption                                       |
| - industry  | ktoe                        | 16261   |   |
| - transport   | ktoe                        | 22444   |   |
| - households  | ktoe                        | 19283   |   |
| - services  | ktoe                        | 7861    |   |
| (iv) gross value added by sector:   | PLN million,                |         | total value added for industry and                                    |
| - industry  | 2010 prices                 | 566038  | construction (sections B-F)   |
| - services  | PLN million,<br>2010 prices | 1085525 | total value added of sections G-T                                     |
| (v) disposable income of households   | PLN million, current prices | 1202372 | net   |
| (vi) gross domestic product (GDP)   | PLN million,<br>2010 prices | 1906348 |   |
| (vii) electricity generation from thermal power generation  | GWh                         | 3974    |   |
| (viii) electricity generation from combined heat and power  | GWh                         | 150578  |   |
| (ix) heat generation from thermal power generation  |                             |         |   |
| (x) heat production from combined<br>heat and power plants, including<br>industrial waste heat    | TJ                          | 193464  |   |
| (xi) fuel input for thermal power generation  | ktoe                        | 36692   | includes CHP plants   |
| (xii) passenger kilometres (pkm), if available  | Mpkm                        | 65025   | excluding passenger cars  |
| (xiii) tonne kilometres (tkm), if available   | Mtkm                        | 467194  | includes rail, road, pipeline, sea, inland waterway and air transport |
| (xiv) combined transport kilometres<br>(pkm + tkm), in case (xii) and (xiii)<br>are not available |                             |         |   |
| (xv) population   | thousands                   | 38411   |   |

### 3. Additional information under Part I, point (a) of Annex XIV to Directive 2012/27/EU

For the final energy consumption sectors mentioned in item (iii) of Table 1 (industry, transport, households, services) where energy consumption remains stable or is growing, Member States are to analyse the reasons and attach their appraisal to the estimates. In 2018, no sector saw an increase in final energy consumption as compared with previous years.

In the preceding years, the transport sector's share in final energy consumption increased and those of industry and agriculture fell. Between 2006 and 2016 the transport sector's share in final energy consumption increased from 23% to 29%. Households continue to be significant consumers of energy. Industry's share fell from 24% to 23% and that of agriculture from 6% to 5%. These changes reflect trends in economic development (e.g. an increase in foreign trade), as well as measures taken in the industrial sector (rationalisation of energy consumption linked with the growing cost of energy products). For many years, industry has been showing improved energy efficiency, and energy savings have been achieved primarily in the most energy-intensive industrial activities. This trend has also continued in the recent period.

#### 4. Information under Part I, point (b) of Annex XIV to Directive 2012/27/EU

The following legislative and non-legislative measures which contribute towards the national energy efficiency target were adopted in 2019:

- 1. Act of 12 April 2019 amending the Act on the provision of information on energy consumption by energy-using products and on monitoring the implementation of the labelling programme for office equipment and certain other acts (Journal of Laws 2019, item 1030);
- 2. Act of 13 June 2019 amending the Act amending the Excise Duty Act and certain other acts, the Energy Efficiency Act and the Biocomponents and Liquid Biofuels Act (Journal of Laws 2019, item 1210);
- 3. Act of 19 July 2019 amending the Renewable Energy Act and certain other acts (Journal of Laws 2019, item 1524);
- 4. Act of 20 January 2020 amending the Thermal Modernisation and Renovation of Buildings Support Act (Journal of Laws 2020, item 412);
- 5. Regulation of the Minister for Energy of 6 March 2019 laying down detailed rules for setting and calculating tariffs and billing in trade in electricity (Journal of Laws 2019, item 503);

### 5. Information under Part I, points (c) and (d) of Annex XIV to Directive 2012/27/EU

In accordance with Article 5(1) of Directive 2012/27/EU, it must be ensured that, as from 1 January 2014, 3% of the total floor area of heated and/or cooled buildings owned and occupied by central government bodies is renovated each year to meet at least the minimum energy performance requirements that Member States have set in application of Article 4 of Directive 2010/31/EU on the energy performance of buildings. Article 5(6) of Directive 2012/27/EU allows an alternative approach to implementation of Article 5(1)-(5). In this connection, a report on the adoption of that approach in Poland is set out below.

Lists of data on buildings not meeting the minimum energy performance requirements set in accordance with Article 4 of Directive 2010/31/EU, taken into account in the context of the alternative approach to implementation of Article 5(1)-(5) of Directive 2012/27/EU

Table 2 shows a list of data for the buildings with a useful floor area over 500 m<sup>2</sup> owned and occupied by central government that, on 1 January 2015, did not meet the minimum energy performance requirements laid down in the Regulation of the Minister for Infrastructure of 12 April 2002 on technical criteria for buildings and the siting thereof (Journal of Laws 2015, item 1422), and for the buildings with a useful floor area over 250 m<sup>2</sup> owned and occupied by central government that, on 9 July 2015, did not meet the minimum energy performance requirements laid down in the aforementioned Regulation, in accordance with Article 4 of Directive 2010/31/EU.

Table 2. List of data for the buildings with a useful floor area over 500 m² owned and occupied by central government that, on 1 January 2015, did not meet the minimum energy performance requirements laid down in accordance with Article 4 of Directive 2010/31/EU (buildings which did not comply with the maximum permissible value for the heat transfer coefficient\*) and for the buildings with a useful floor area over 250 m² owned and occupied by central government that, on 9 July 2015, did not meet the minimum energy performance requirements laid down in accordance with Article 4 of Directive 2010/31/EU (buildings which did not comply with the maximum permissible value for the heat transfer coefficient\*)

| <b>Building use</b> | Number of buildings | Building<br>cooled?<br>YES/NO | Total useful<br>floor area | Indicator of der  |  | Energy<br>savings    |
|---------------------|---------------------|-------------------------------|----------------------------|-------------------|--|----------------------|
|                     |                     |                               |                            | Average           | under the rules<br>on new<br>buildings*) **) |                      |
| -                   | Buildings           |                               | m <sup>2</sup>             | kWh/(m²·year      | kWh/(m²·year)                                | MWh/year             |
| Collective          | 6                   | YES                           | 16080.20                   | 431.95            | 220.00                                       | 3408.20              |
| residential         | 15                  | NO                            | 38494.31                   | 304.78            | 195.00                                       | 4225.91              |
| Multi-family        | 4                   | YES                           | 3271.15                    | 155.41            | 115.00                                       | 132.19               |
| residential         | 15                  | NO                            | 16628.56                   | 160.98            | 105.00                                       | 930.87               |
|                     | 9                   | No data<br>available          | 2577.36                    | No data available | No data available                            | No data available    |
| Public              | 98                  | YES                           | 615551.68                  | 276.98            | 190.00                                       | 53540.69             |
| building            | 68                  | NO                            | 278032.37                  | 459.03            | 165.00                                       | 77667.00             |
|                     | 38                  | No data<br>available          | 51756.99                   | No data available | No data available                            | No data<br>available |
| Storage,            | 2                   | YES                           | 1932.50                    | 371.68            | 235.00                                       | 264.13               |
| industrial,         | 21                  | NO                            | 73644.50                   | 272.89            | 210.00                                       | 4631.50              |
| outbuildings        | 5                   | No data<br>available          | 3880.35                    | No data available | No data available                            | No data<br>available |
| TOTAL               | 281                 | -                             | 1087964.1                  | -                 | -  | 144800.49            |

<sup>\*)</sup> The maximum values of the heat transfer coefficient and the indicator of demand for non-renewable primary energy are defined in the Regulation of the Minister for Infrastructure on technical criteria for buildings and the siting thereof. This requirement was set in accordance with Article 4 of Directive 2010/31/EU.

On the basis of the above, it has been estimated that the annual energy savings target should be 3%  $\times$  144,800.49 = 4,344.01 MWh.

<sup>\*\*)</sup> The requirements on the maximum value of the indicator of demand for non-renewable primary energy differ according to the type of building, how long buildings are lit for (except for residential buildings) and whether they are cooled.

Total floor area of the buildings with a total useful floor area over  $250\,\mathrm{m}^2$  owned and occupied by central government that, on 1 January 2016, did not meet the energy performance requirements referred to in Article 5(1) of Directive 2012/27/EU

Table 3 shows a list of buildings with a total useful floor area over  $250 \text{ m}^2$ , owned and occupied by central government that, on 1 January 2016, did not meet the energy performance requirements referred to in Article 5(1) of Directive 2012/27/EU. These buildings did not meet the requirements as regards the heat transfer coefficient  $U_c[W/(m^2K)]$ .

Table 3. List of buildings with a useful floor area over 250 m<sup>2</sup> owned and occupied by central government that, on 1 January 2016, did not meet the minimum energy performance requirements laid down in accordance with Article 4 of Directive 2010/31/EU (buildings which did not comply with the maximum permissible value for the heat transfer coefficient\*)

| Building use                      | Number of buildings | Total useful floor area |
|-----------------------------------|---------------------|-------------------------|
| -                                 | Buildings           | m <sup>2</sup>          |
| Collective residential            | 21                  | 54574.51                |
| Multi-family residential          | 28                  | 22477.07                |
| Public building                   | 204                 | 931455.17               |
| Storage, industrial, outbuildings | 28                  | 79457.35                |
| TOTAL                             | 281                 | 1087964.1               |

<sup>\*)</sup> The maximum value of the heat transfer coefficient is defined in the Annex to the Regulation of the Minister for Infrastructure on technical criteria for buildings and the siting thereof. This requirement was set in accordance with Article 4 of Directive 2010/31/EU.

Energy savings resulting from the measures taken in buildings owned and occupied by central government that have been achieved under the alternative approach referred to in Article 5(6) of Directive 2012/27/EU

The alternative approach adopted to implement Article 5 of Directive 2012/27/EU was published in December 2013, and an amended version was published in July 2014. It was decided that energy savings would be achieved through the energy renovation of buildings and information/educational activities to promote energy saving.

Table 4 lists the measures taken in 2019 and the energy savings achieved in buildings with a useful floor area over 250 m<sup>2</sup> owned and occupied by central government.

Table 4. List of measures taken in 2019 in respect of buildings with a total useful floor area over  $250 \, \text{m}^2$  owned and used by central government that, on 9 July 2015, did not meet the minimum energy performance requirements laid down pursuant to Article 4 of Directive 2010/31/EU

| No Type of building |                                  | Useful floor<br>area<br>m <sup>2</sup> | Measure  | Energy<br>savings<br>MWh/year |  |
|---------------------|----------------------------------|--|--|-------------------------------|--|
| -                   | 1                                | 2                                      | 3  | 4                             |  |
| 1                   | Complex of two public buildings  | 2674.48                                | Complete thermo-modernisation including, in particular, window and door frame replacement, wall and roof insulation. Replacing central heating and domestic hot water installations, including radiators and pumps. Replacing lighting with energy-efficient lighting. Energy efficiency training for employees. | 901.6                         |  |
| 2                   | Public building                  | 2440.0                                 | Replacing lighting with energy-efficient lighting. Energy efficiency training for employees.   | 43.3                          |  |
| 3                   | Public building                  | 4510.0                                 | Replacing lighting with energy-efficient lighting. Energy efficiency training for employees.   | 51.9                          |  |
| 4                   | Public building                  | 2769.22                                | Upgrading heating and domestic hot water system. Replacing lighting with energy-efficient lighting. Energy efficiency training for employees.  | 17.5                          |  |
| 5                   | Public building                  | 255.9                                  | Upgrading heating and domestic hot water system. Replacing lighting with energy-efficient lighting. Energy efficiency training for employees.  | 23.2                          |  |
| 6                   | Public building                  | 2727.4                                 | Upgrading heating and domestic hot water system. Replacing lighting with energy-efficient lighting. Energy efficiency training for employees.  | 47.8                          |  |
| 7                   | Public building                  | 2727.0                                 | Replacing lighting with energy-efficient lighting. Energy efficiency training for employees.   | 12.45                         |  |
| 8                   | Complex of five public buildings | 5097.75                                | Upgrading power supply system. Installing a community battery for reactive power compensation. Replacing lighting with energy-efficient lighting. Energy efficiency training for employees.  | 3.2                           |  |
| 9                   | Public building                  | 1100.0                                 | Replacing lighting with energy-efficient lighting. Energy efficiency training for employees.   | 24.4                          |  |
| 10                  | Public<br>building               | 5212.4                                 | Window frame upgrade. Replacing lighting with energy-efficient lighting.   | 23.8                          |  |

| No | Type of building                 | Useful floor Measure area m <sup>2</sup> |   | Energy<br>savings<br>MWh/year |
|----|----------------------------------|--|---|-------------------------------|
| -  | 1                                | 2  | 3   | 4                             |
|    |                                  |  | Energy efficiency training for employees.   |                               |
| 11 | Public building                  | 8762.0                                   | Replacing lighting with energy-efficient lighting. Energy efficiency training for employees.  | 5.27                          |
| 12 | Public building                  | 2003.0                                   | Replacing radiator valves with thermostatic valves. Energy efficiency training for employees.   | 1.76                          |
| 13 | Public building                  | 1096.5                                   | Replacing radiator valves with thermostatic valves. Energy efficiency training for employees.   | 8.31                          |
| 14 | Public<br>building               | 750.0                                    | Replacing radiator valves with thermostatic valves. Replacing lighting with energy-efficient lighting. Energy efficiency training for employees.            | 62.5                          |
| 15 | Public<br>building               | 2694.0                                   | Replacing lighting with energy-efficient lighting. Energy efficiency training for employees.  | 61.1                          |
| 16 | Complex of five public buildings | 5350.5                                   | Replacing lighting with energy-efficient lighting. Energy efficiency training for employees.  | 173.1                         |
| 17 | Complex of six public buildings  | 16560.42                                 | Fitting installations with reactive power compensation device. Replacing lighting with energy-efficient lighting. Energy efficiency training for employees. | 107.6                         |
| 18 | Public building                  | 17010.1                                  | Replacing lighting with energy-efficient lighting. Energy efficiency training for employees.  | 156.9                         |
| 19 | Public building                  | 3562.0                                   | Replacing radiator valves with thermostatic valves. Replacing lighting with energy-efficient lighting. Energy efficiency training for employees.            | 128.5                         |
| 20 | Public<br>building               | 1761.74                                  | Installing mechanical ventilation system with recovery. Replacing lighting with energy-efficient lighting. Energy efficiency training for employees.        | 59.1                          |
| 21 | Public building                  | 1110.0                                   | Replacing lighting with energy-efficient lighting. Energy efficiency training for employees.  | 56.3                          |
| 22 | Public<br>building               | 540.6                                    | Energy efficiency training for employees.   | 4.5                           |
| 23 | Public building                  | 3826.35                                  | Replacing lighting with energy-efficient lighting. Energy efficiency training for employees.  | 39.4                          |

| No | Type of building                      | Useful floor<br>area<br>m <sup>2</sup> | Measure   | Energy<br>savings<br>MWh/year                          |
|----|---------------------------------------|--|---|--|
| -  | 1                                     | 2                                      | 3   | 4  |
| 24 | Public building                       | 664.78                                 | Replacing lighting with energy-efficient lighting. Energy efficiency training for employees.  | 7.84   |
| 25 | Public building                       | 2094.1                                 | Fitting installations with reactive power compensation device.  Replacing lighting with energy-efficient lighting.  Energy efficiency training for employees.   | 48.8   |
| 26 | Public<br>building                    | 5491.66                                | Replacing lighting with energy-efficient lighting. Energy efficiency training for employees.  | 108.8  |
| 27 | Public<br>building                    | 22210.0                                | Full roof thermal insulation, repositioning ventilation chimneys above roof, raising flat roof above staircase, and insulating external walls of staircase and chimneys above roof. Replacing lighting with energy-efficient lighting.  Energy efficiency training for users. | No data<br>available on<br>energy savings<br>achieved. |
| 28 | Public building                       | 4605.2                                 | Rebuilding RG-1 and RG-2 distribution boards and fitting installations with reactive power compensation device. Replacing lighting with energy-efficient lighting. Energy efficiency training for users.  | 88.6   |
| 29 | Public building                       | 3015.0                                 | Full thermo-modernisation of building. Energy efficiency training for employees.  | 77.1   |
| 30 | Public<br>building                    | 25183.4                                | Full thermo-modernisation of building. Energy efficiency training for employees.  | 306.8  |
| 31 | Public building                       | 7198.7                                 | Replacing lighting with energy-efficient lighting. Energy efficiency training for employees.  | 18.45  |
| 32 | Public building                       | 4813                                   | Upgrading low voltage switchboard. Replacing lighting with energy-efficient lighting. Energy efficiency training for employees.   | 71.3   |
| 33 | Public building                       | 589.0                                  | Replacing lighting with energy-efficient lighting. Energy efficiency training for employees.  | 9.4  |
| 34 | Complex of<br>two public<br>buildings | 4655.98                                | Replacing lighting with energy-efficient lighting. Energy efficiency training for employees.  | 203.8  |
| 35 | Complex of<br>two public<br>buildings | 2689.2                                 | Replacing lighting with energy-efficient lighting. Energy efficiency training for employees.  | 35.8   |
| 36 | Complex of three public buildings     | 9745.6                                 | Replacing lighting with energy-efficient lighting. Energy efficiency training for employees.  | 71.8   |

| No | Type of building                  | Useful floor<br>area<br>m <sup>2</sup> | Measure  | Energy<br>savings<br>MWh/year                          |
|----|-----------------------------------|--|--|--|
| -  | 1                                 | 2                                      | 3  | 4  |
| 37 | Public building                   | 3370.81                                | Replacing lighting with energy-efficient lighting. Energy efficiency training for employees.   | 22.58  |
| 38 | Public building                   | 12600.0                                | Upgrading lighting system. Replacing lighting with energy-efficient lighting. Energy efficiency training for employees.  | 69.74  |
| 39 | Public<br>building                | 6445.6                                 | Upgrading lighting system. Replacing lighting with energy-efficient lighting. Energy efficiency training for employees.  | 87.2   |
| 40 | Public building                   | 4061.56                                | Replacing lighting with energy-efficient lighting. Energy efficiency training for employees.   | 47.8   |
| 41 | Public<br>building                | 3560.1                                 | Upgrading central heating system. Thermal insulation of external walls. Replacing lighting with energy-efficient lighting.   | No data<br>available on<br>energy savings<br>achieved. |
| 42 | Public<br>building                | 2489.6                                 | Complete thermo-modernisation including, in particular, window and door frame replacement, wall and roof insulation. Replacing lighting with energy-efficient lighting.                                      | No data<br>available on<br>energy savings<br>achieved. |
| 43 | Public building                   | 11415.9                                | Upgrading central heating system, including replacement of radiators in all rooms of the building and replacement of thermostatic valves on hot water installations.  Energy efficiency training for users.  | 135.6  |
| 44 | Complex of two public buildings   | 22060.0                                | Replacing lighting with energy-efficient lighting. Energy efficiency training for employees.   | 323.06   |
| 45 | Public building                   | 20890.0                                | Connecting building to district central heating network. Replacing lighting with energy-efficient lighting. Energy efficiency training for employees.  | 78.75  |
| 46 | Public building                   | 20856.4                                | Replacing lighting with energy-efficient lighting. Energy efficiency training for employees.   | 279.39   |
| 47 | Complex of three public buildings | 5103.0                                 | Thermal insulation of external walls. Replacing lighting with energy-efficient lighting. Energy efficiency training for employees.   | 133.16   |
| 48 | Public<br>building                | 936.1                                  | Complete thermo-modernisation including, in particular, window and door frame replacement, wall and roof insulation. Replacing central heating and domestic hot water installations, including radiators and | No data<br>available on<br>energy savings<br>achieved. |

| No    | Type of building  | Useful floor<br>area<br>m <sup>2</sup> | area<br>m²  |  |
|-------|---|--|---|--|
| -     | . 1 2   |  | 3   | 4  |
|       |   |  | pumps. Replacing lighting with energy-efficient lighting. Energy efficiency training for employees.   |  |
| 49    | Public<br>building  | 6295.1                                 | Complete thermo-modernisation including, in particular, window and door frame replacement, wall and roof insulation. Replacing lighting with energy-efficient lighting. Energy efficiency training for employees. | 311.6  |
| 50    | Public building   | 2186.7                                 | Replacing lighting with energy-efficient lighting. Energy efficiency training for employees.  | No data<br>available on<br>energy savings<br>achieved. |
| 51    | Public<br>building  | 7118.8                                 | Fitting installations with reactive power compensation device. Upgrading heating and domestic hot water system. Replacing lighting with energy-efficient lighting. Energy efficiency training for employees.      | No data<br>available on<br>energy savings<br>achieved. |
| 52    | residential Replacing lighting with energy-efficient lighting.  Energy efficiency training for users. |  | 54.6  |  |
| TOTAL | •   | ·                                      |   | 4605.46  |

This part of the report was drawn up on the basis of data submitted by the central government bodies referred to in Article 5(1) of Directive 2012/27/EU.

It should be noted that the energy savings indicated in the table above have been achieved both through the measures indicated (those listed in the table refer to measures taken in 2019) and through measures carried out in previous years which are continuing to save energy and whose effect can now be measured and verified.

The public authorities submitting reports explained the lack of data available on energy savings achieved despite measures having been carried out by the fact that employment in the unit concerned had increased as compared with the previous year and that the energy renovation (thermal modernisation) work was completed by the end of 2019, which meant that the energy savings achieved as a result of these measures would be visible only in a few years' time. Where 'no data available' is stated in the 'Energy savings' column of the table, this is due to the bodies completing the survey having failed to supply the relevant information.

#### 6. Information under Part 1, point (e) of Annex XIV to Directive 2012/27/EU

An energy efficiency obligation scheme (white certificate scheme) was introduced on the basis of the Energy Efficiency Act of 15 April 2011 (Journal of Laws 2015, items 2167 and 2359; Journal of Laws 2016, item 266) and was operated in accordance with that Act from 1 January 2013 until 30 September 2016. A new act was passed in 2016, namely the Energy Efficiency Act of 20 May 2016 (Journal of Laws 2019, item 545), which extended operation of the scheme and fully implemented Article 7 of Directive 2012/27/EU.

The Act requires energy companies selling electricity, heat or natural gas to final consumers to obtain energy efficiency certificates (white certificates) and submit them to the President of the Energy Regulatory Office (URE) for redemption, or to pay a substitution charge.

Under the energy efficiency certificate scheme, five tender procedures have been carried out to select projects improving energy efficiency. The value of the energy efficiency certificates for which successful tenderers applied has increased. In the most recent (fifth) tender procedure, a significant rise in interest in obtaining an energy efficiency certificate was noted, which was reflected in the considerable increase in the number of bids submitted (2,425) and bids selected, i.e. bids for which an energy efficiency certificate could be issued (2,065).

The results of all the tender procedures are set out in Table 5.

Table 5. Results of the tender procedures

| Public tender | Value of the energy efficiency certificates for which successful tenderers applied (toe) |
|---------------|--|
| First         | 20,698   |
| Second        | 57,180   |
| Third         | 149,886  |
| Fourth        | 495,023  |
| Fifth         | 806,743  |
| Total         | 1,529,530  |

Since 2017, it has not been necessary to carry out a tender procedure for selecting projects to improve energy efficiency for which an energy efficiency certificate may be issued. This simplification of the rules should help to increase the number of certificates issued.

Under the new Energy Efficiency Act of 20 May 2016, the President of the Energy Regulatory Office (URE) issues certificates at the request of the body on whose premises the project to increase energy efficiency will be carried out or a body authorised by it.

Table 6 presents data on the number and value of the energy efficiency certificates issued by the end of 2019.

Table 6. Data on energy efficiency certificates issued

| Cumulative data at year-end | Number of energy<br>efficiency certificates issued | Value of energy efficiency<br>certificates issued<br>(toe) |
|-----------------------------|--|--|
| 2016                        | 1,842  | 702,742  |
| 2017                        | 3,853  | 1,317,855  |
| 2018                        | 4,432  | 1,487,258  |
| 2019                        | 4,979  | 1,710,918  |

Table 7 shows the cumulative final energy savings achieved under the white certificate scheme up to the end of 2018.

Table 7. Final energy savings achieved under the white certificate scheme

| Year                                  | 2014    | 2015      | 2016      | 2017      | 2018      |
|---------------------------------------|---------|-----------|-----------|-----------|-----------|
| Cumulative final energy savings [toe] | 213,184 | 1,660,662 | 3,268,126 | 5,914,158 | 8,890,869 |

The data in the above table concerning the cumulative energy savings achieved under the white certificate scheme were calculated using the database of the National Energy Conservation Agency (KAPE) and then verified on the basis of data from the Energy Regulatory Office (URE). The final energy saving calculated for 2018 is based on energy efficiency certificates issued by the URE up to the end of 2019 (according to the database), with calculations only taking into account certificates for projects completed by the end of 2018. The data were obtained from the record sheets of energy efficiency audits, which are available from the Public Information Bulletin on the URE website. The database currently has 4,979 entries for energy efficiency certificates issued up to the end of 2019 and will in future be updated as and when new certificates are issued.