

Ministry of Energy  
of the Republic of Lithuania

**Report on investments  
in modernising electricity generation  
pursuant to article 10c(1) of directive 2003/87/EC**

February 2021

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# 1 INTRODUCTION

The Report on investments made in modernisation of electricity generation sector pursuant to article 10c (1) of Directive 2003/87/EC has been prepared in accordance to the provisions of the following legal acts and documents:

- › Article 6.3. of the Communication from the Commission "Guidance document on the optional application of Article 10c of Directive 2003/87/EC";
- › Item 2.4 of the Order of the Minister of Environment and Minister of Energy No. D1-559/1-179 "On transitional free allocation of emission allowances for the electricity producers in 2013-2020", 14 July 2011 (hereinafter - Joint Order);
- › Application of the Republic of Lithuania for transitional free allocation of emission allowances under Article 10c of Directive 2003/87/EC, approved by the COMMISSION DECISION of 23.5.2012 concerning the application pursuant to Article 10c (5) of Directive 2003/87/EC of the European Parliament and of the Council to give transitional free allocation for the modernisation of electricity generation notified by Lithuania (hereinafter – Application).

The Report is based on individual reports submitted by the operators from electricity sector on investments made in 2020.

## 2 Investments implemented in electricity sector in 2020

### 2.1 List of participants

During the reporting period, 1 (out of total 8) operator have reported on implementation of modernization investments in 1 (out of 12) installation (LT-\$-0024) of electricity sector. The list of operators that implemented investments in 2020 is presented in Table 1.

*Table 1: List of operators that invested in modernization of electricity sector in 2020*

| <b>Installation ID in the National Investment Plan</b> | <b>Installation name</b> | <b>Installation ID in the Union registry</b> | <b>Operator</b>       | <b>Company group</b>  |
|--|--------------------------|--|-----------------------|-----------------------|
| LT-005   | Lietuvos Power plant     | LT087  | AB „Ignitis gamyba" * | AB „Ignitis gamyba" * |

\* September 6, 2019 Lietuvos Energijos Gamyba, AB changed its name to AB „Ignitis gamyba".

### 2.2 List of investments

A list of investments implemented in 2020 and the schedule of investments made in 2013-2020 are presented in Table 2 below:

Table 2: Schedule of investments made in 2013-2020

| 0          | Value         |             | Invested amount in 2013 |             | Investments in 2014 |            | Investments in 2015 | Investments in 2016 | Investments in 2017 | Investments in 2018 | Investments in 2019 | Investment in 2020  |
|------------|---------------|-------------|-------------------------|-------------|---------------------|------------|---------------------|---------------------|---------------------|---------------------|---------------------|---|
|            | LT            | EUR         | LTL                     | EUR         | LTL                 | EUR        | EUR                 | EUR                 | EUR                 | EUR                 | EUR                 | EUR   |
|            |               |             |                         |             |                     |            |                     |                     |                     |                     |                     |   |
|            | 3 235 127 272 | 936 957 620 | 1 545 056 354           | 447 479 250 | 64 819 316          | 18 772 972 | 8 051 679           | 129 356             | 261 489             | 0                   | 0                   | 25 000  |
| LT-\$-0001 | 86 900 000    | 25 167 980  | 87 149 205              | 25 240 154  |                     |            |                     |                     |                     |                     |                     | Finished  |
| LT-\$-0002 | 42 300 000    | 12 250 927  |                         |             |                     | 0          | 0                   | 0                   | 0                   |                     |                     | Investment cancelled due to changed needs.                      |
| LT-\$-0003 | 12 700 000    | 3 678 174   |                         |             |                     |            | Postponed to 2017   |                     |                     |                     |                     | Investment cancelled due to changed needs.                      |
| LT-\$-0004 | 12 000 000    | 3 475 440   |                         |             |                     |            |                     |                     |                     |                     |                     | Investment cancelled due to changed needs.                      |
| LT-\$-0005 | 900 000       | 260 658     |                         |             |                     |            |                     |                     |                     |                     |                     | Investment cancelled due to changed needs.                      |
| LT-\$-0006 | 900 000       | 260 658     |                         | 0           | 893 200             | 258 689    |                     |                     |                     |                     |                     | Finished  |
| LT-\$-0007 | 500 000       | 144 810     | 698 169                 | 202 204     |                     |            |                     |                     |                     |                     |                     | Finished  |
| LT-\$-0008 | 17 166 000    | 4 971 617   | 16 345 623              | 4 734 020   |                     |            |                     |                     |                     |                     |                     | Finished  |
| LT-\$-0009 | 45 000 000    | 13 032 901  |                         |             |                     |            |                     |                     |                     |                     |                     | Investment cancelled due to changed needs.                      |
| LT-\$-0010 | 95 000 000    | 27 513 902  |                         |             |                     |            |                     |                     |                     |                     |                     | Investment cancelled due to changed needs.                      |
| LT-\$-0011 | 530 000 000   | 153 498 610 |                         |             |                     |            |                     |                     |                     |                     |                     | Investment cancelled due to changed needs.                      |
| LT-\$-0012 | 600 000       | 173 772     |                         | 0           |                     | 0          | 0                   | 0                   | 0                   | 0                   | 0                   | Investment cancelled due to changed needs.                      |
| LT-\$-0013 | 2 000 000     | 579 240     |                         | 0           |                     | 0          | 0                   | 0                   | 0                   | 0                   | 0                   | Investment cancelled due to changed needs.                      |
| LT-\$-0014 | 500 000       | 144 810     |                         | 0           |                     | 0          | 0                   | 0                   | 0                   | 0                   | 0                   | Investment cancelled due to changed needs.                      |
| LT-\$-0015 | 118 720 000   | 34 383 689  |                         |             |                     |            |                     |                     |                     |                     |                     | Investment cancelled due to changed needs.                      |
| LT-\$-0016 | 50 000 000    | 14 481 001  |                         |             |                     |            |                     |                     |                     |                     |                     | Investment cancelled due to changed needs.                      |
| LT-\$-0017 | 15 500 000    | 4 489 110   | 15 701 130              | 4 547 362   |                     |            |                     |                     |                     |                     |                     | Finished  |
| LT-\$-0018 | 50 470 000    | 14 617 122  | 47 901 755              | 13 873 307  |                     |            |                     |                     |                     |                     |                     | Finished  |
| LT-\$-0020 | 98 885        | 28 639      | 98 885                  | 28 639      |                     |            |                     |                     |                     |                     |                     | Finished  |
| LT-\$-0021 | 700 000       | 202 734     |                         |             |                     |            |                     |                     |                     |                     |                     | Investment cancelled due to changed needs.                      |
| LT-\$-0022 | 150 000 000   | 43 443 003  |                         |             |                     |            | Postponed to 2017   |                     |                     |                     |                     | Investment removed.   |
| LT-\$-0023 | 259 000 000   | 75 011 585  |                         |             |                     |            |                     |                     |                     |                     |                     | Investment cancelled due to changed needs.                      |
| LT-\$-0024 | 7 200 000     | 2 085 264   |                         | 0           |                     | 0          | 0                   | 81 696              | 261 489             | 0                   | 0                   | 25 000  |
| LT-\$-0025 | 336 000 000   | 97 312 326  |                         | 0           |                     | 0          | 0                   | 0                   | 0                   | 0                   | Postponed to 2020   | Investment cancelled  |
| LT-\$-0026 | 2 400 000     | 695 088     |                         |             |                     |            |                     |                     |                     |                     |                     | Investment cancelled due to changed needs.                      |
| LT-\$-0027 | 40 942 000    | 11 857 623  | 43 251 838              | 12 526 598  |                     |            |                     |                     |                     |                     |                     | Finished  |
| LT-\$-0028 | 2 721 000     | 788 056     | 2 757 961               | 798 761     |                     |            |                     |                     |                     |                     |                     | Finished  |
| LT-\$-0029 | 57 000        | 16 508      | 75 628                  | 21 903      |                     |            |                     |                     |                     |                     |                     | Finished  |
| LT-\$-0030 | 20 314 000    | 5 883 341   | 20 313 813              | 5 883 287   |                     |            |                     |                     |                     |                     |                     | Finished  |
| LT-\$-0031 | 1 226 008 000 | 355 076 460 | 1 305 009 902           | 377 956 992 |                     |            |                     |                     |                     |                     |                     | Finished  |
| LT-\$-0033 | 5 269 387     | 1 526 120   | 4 132 313               | 1 196 801   | 1 137 074           | 329 319    |                     |                     |                     |                     |                     | Finished  |
| LT-\$-0034 | 3 000 000     | 868 860     |                         |             |                     |            |                     |                     |                     |                     |                     | Postponed to 2015<br>Investment cancelled due to changed needs. |
| LT-\$-0035 | 2 350 000     | 680 607     | 46 700                  | 13 525      | 1 699 760           | 492 285    | 80 280              | 47 660              |                     |                     |                     | Finished.   |
| LT-\$-0036 | 250 000       | 72 405      | 75 000                  | 21 722      |                     |            |                     |                     |                     |                     |                     | Finished  |
| LT-\$-0037 | 800 000       | 231 696     |                         |             |                     |            |                     |                     |                     |                     |                     | Investment cancelled due to changed needs.                      |
| LT-\$-0038 | 900 000       | 260 658     |                         |             |                     |            |                     |                     |                     |                     |                     | Investment cancelled due to changed needs.                      |
| LT-\$-0039 | 95 961 000    | 27 792 227  | 1 498 432               | 433 976     | 61 089 282          | 17 692 679 | 7 971 399           |                     |                     |                     |                     | Finished.   |

### 2.3 Evidence documents

According to item 2.4 of the Joint Order, all operators must submit their annual reports together with the Statement of an independent certified auditor or audit company on investments made in improvement of infrastructure, on implementation of environment-friendly technologies that reduce GHG emissions and investment amount in energy sector to the Ministry of Energy.

### 2.4 Compliance indicators

Compliance indicators for the investments set out in the National Plan are the following:

- Comparison of the emission factor of the technology adopted by each installation due to investments undertaken under Article 10c of Directive 2003/87/EC with the emission factor of the technology used before the retrofitting/ upgrading, t CO<sub>2</sub>/MWh;
- Expected and implemented decrease in total greenhouse gases emissions generated by electricity production due to investments undertaken under Article 10c (compared to business as usual scenario);
- Expected and implemented efficiency gains in electricity generation process is expressed as the ratio of the electricity produced (in TJ) with the energy input from fuels (in TJ). Efficiency increase is measured as rated difference before and after the investment;
- Efficiency gains in electricity distribution networks shall be determined as a reduction of network losses.

Compliance indicators achieved by the completely implemented investments in modernisation of electricity sector are provided in Annex.

### 3 Allocation for 2013-2020 based on investments

According to the provisions of the National investment plan, emission allowances allocated pursuant to Article 10c of the ETS Directive shall be transferred to an operator only after the investment eligible under the National Plan is undertaken. Pursuant to the Part C.2.1 of the Application, if the amount of investment undertaken by an operator is higher than the value of free emission allowances allocated under Article 10c of the ETS Directive, he/she receives the amount of allowances not higher than he/she was allocated in a given year according to the National Plan. The excess value of investments in a given year may be used for compliance with the next years allocation. Table 3 below shows allocation for 2013 – 2020 based on investments implemented in 2020. Grey cells illustrate the possible allocation in later years after the investments are undertaken by the rest of installations.

Table 3: allocation for installations based on implemented investments in 2020

| Installation ID in the National Investment Plan | Installation name                  | Installation ID in the Union registry | Operator                   | Actual transitional free allocation (plan) |         |         |         |         |         |         |         |      |  | Allocation based on investments (fact) and adjusted to ATF allocation (plan), EUA |  |  |  |  |  |  |         |         |         | Total surplus / shortage of generated EUA |         |        |         |            |            |            |            |            |            |            |            |
|---|------------------------------------|---------------------------------------|----------------------------|--|---------|---------|---------|---------|---------|---------|---------|------|--|---|--|--|--|--|--|--|---------|---------|---------|---|---------|--------|---------|------------|------------|------------|------------|------------|------------|------------|------------|
|   |                                    |                                       |                            | TOTAL                                      | 2013    | 2014    | 2015    | 2016    | 2017    | 2018    | 2019    | 2020 | Allocation equal to total investment value in 2013 | Allocation equal to total investment value in 2014                                | Allocation equal to total investment value in 2015 | Allocation equal to total investment value in 2016 | Allocation equal to total investment value in 2017 | Allocation equal to total investment value in 2018 | Allocation equal to total investment value in 2019 | Allocation equal to total investment value in 2020 | 2013    | 2014    | 2015    | 2016                                      | 2017    | 2018   | 2019    | 2020       |            |            |            |            |            |            |            |
|   |                                    |                                       |                            | 0.247                                      | 0.228   | 0.207   | 0.182   | 0.154   | 0.122   | 0.072   | 0.000   |      |  |   |  |  |  |  |  |  |         |         |         |   |         |        |         |            |            |            |            |            |            |            |            |
| <b>TOTAL numbers:</b>                           |                                    |                                       |                            | 2 653 624                                  | 582 373 | 536 614 | 486 698 | 428 459 | 361 901 | 287 027 | 170 552 | 0    | 30 859 795   | 938 649   | 402 584  | 6 468  | 13 074   | 0  | 0  | 322 449  | 297 113 | 269 475 | 237 230 | 200 379                                   | 158 922 | 94 432 | 0       | 30 278 265 | 22 282 299 | 22 198 183 | 21 776 192 | 21 427 366 | 21 140 339 | 20 969 787 | 20 969 787 |
| LT-001  | Noreikiskes boiler house           | LT072                                 | Kauno energija             | 4 078                                      | 832     | 767     | 696     | 612     | 517     | 410     | 244     | 0    | 0  | 0   | 0  | 0  | 0  | 0  | 0  | 0  | 0       | 0       | 0       | 0   | 0       | 0      | -832    | -1 599     | -2 295     | -2 907     | -3 424     | -3 834     | -4 078     | -4 078     |            |
| LT-002  | Petrusilnai power plant            | LT069                                 | Kauno energija             | 6 214                                      | 1 288   | 1 169   | 1 060   | 933     | 788     | 625     | 371     | 0    | 0  | 0   | 0  | 0  | 0  | 0  | 0  | 0  | 0       | 0       | 0       | 0   | 0       | 0      | -1 268  | -2 437     | -3 497     | -4 430     | -5 218     | -5 843     | -6 214     | -6 214     |            |
| LT-003  | Power plant                        | LT055                                 | Klaipėdos energija         | 25 170                                     | 5 137   | 4 733   | 4 293   | 3 779   | 3 192   | 2 532   | 1 504   | 0    | 0  | 0   | 0  | 0  | 0  | 0  | 0  | 0  | 0       | 0       | 0       | 0   | 0       | 0      | -5 137  | -9 870     | -14 163    | -17 942    | -21 134    | -23 666    | -25 170    | -25 170    |            |
| LT-004  | Kaunas Power plant                 | LT088                                 | KTE                        | 386 212                                    | 80 860  | 74 506  | 67 576  | 59 490  | 50 248  | 39 852  | 23 680  | 0    | 0  | 0   | 0  | 0  | 0  | 0  | 0  | 0  | 0       | 0       | 0       | 0   | 0       | 0      | -80 860 | -155 366   | -222 942   | -282 432   | -332 680   | -372 532   | -396 212   | -396 212   |            |
| LT-005  | Lietuvos Power plant               | LT087                                 | AB „Ignitis gamyba“ *      | 1 388 395                                  | 285 387 | 262 963 | 238 502 | 209 963 | 177 347 | 140 655 | 83 578  | 0    | 27 507 142   | 925 714   | 402 584  | 6 468  | 13 074   | 0  | 0  | 265 387  | 262 963 | 238 502 | 209 963 | 177 347                                   | 140 655 | 83 578 | 0       | 27 221 755 | 20 388 524 | 20 562 606 | 20 369 111 | 20 194 838 | 20 054 183 | 19 970 605 | 19 970 605 |
| LT-006  | Alytus boiler house                | LT086                                 | Litesko                    | 28 591                                     | 5 835   | 5 376   | 4 876   | 4 293   | 3 626   | 2 876   | 1 709   | 0    | 1 740 700  | 12 934  | 0  | 0  | 0  | 0  | 0  | 5 835  | 5 376   | 4 876   | 4 293   | 3 626                                     | 2 876   | 1 709  | 0       | 1 734 865  | 1 265 336  | 1 260 460  | 1 256 167  | 1 252 541  | 1 249 665  | 1 247 956  | 1 247 956  |
| LT-007  | Druskininkai Pramonės boiler house | LT078                                 | Litesko                    | 2 913                                      | 595     | 548     | 497     | 437     | 369     | 293     | 174     | 0    | 0  | 0   | 0  | 0  | 0  | 0  | 0  | 0  | 0       | 0       | 0       | 0   | 0       | 0      | -595    | -1 143     | -1 640     | -2 077     | -2 446     | -2 739     | -2 913     | -2 913     |            |
| LT-008  | Merjamė boiler house               | LT085                                 | Litesko                    | 7 787                                      | 1 585   | 1 461   | 1 325   | 1 166   | 985     | 781     | 464     | 0    | 13 945   | 0   | 0  | 0  | 0  | 0  | 0  | 1 585  | 1 461   | 1 325   | 1 166   | 985                                       | 781     | 464    | 0       | 12 360     | 7 500      | 6 175      | 5 009      | 4 024      | 3 243      | 2 778      | 2 778      |
| LT-010  | Siauliai Southern boiler house     | LT050                                 | Siaulių energija           | 9 323                                      | 1 903   | 1 753   | 1 580   | 1 400   | 1 182   | 938     | 557     | 0    | 938 735  | 0   | 0  | 0  | 0  | 0  | 0  | 1 903  | 1 753   | 1 580   | 1 400   | 1 182                                     | 938     | 557    | 0       | 856 852    | 691 965    | 680 375    | 688 975    | 687 793    | 686 655    | 686 298    | 686 298    |
| LT-011  | Utena boiler house                 | LT057                                 | Utenos ŠT                  | 746  | 152     | 140     | 127     | 112     | 95      | 75      | 45      | 0    | 313 611  | 0   | 0  | 0  | 0  | 0  | 0  | 152  | 140     | 127     | 112     | 95  | 75      | 45     | 0       | 313 459    | 227 118    | 226 991    | 226 679    | 226 784    | 226 709    | 226 664    | 226 664    |
| LT-012  | CHP No. 2                          | LT044                                 | Vilniaus šilumos tinklai * | 135 178                                    | 27 587  | 25 420  | 23 055  | 20 296  | 17 144  | 13 597  | 8 079   | 0    | 326 484  | 0   | 0  | 0  | 0  | 0  | 0  | 27 587   | 25 420  | 23 055  | 20 296  | 17 144                                    | 13 597  | 8 079  | 0       | 298 897    | 191 280    | 168 225    | 147 929    | 130 765    | 117 188    | 109 109    | 109 109    |
| LT-013  | CHP No.3                           | LT045                                 | Vilniaus šilumos tinklai * | 839 037                                    | 171 232 | 157 778 | 143 101 | 125 978 | 106 408 | 84 393  | 50 147  | 0    | 0  | 0   | 0  | 0  | 0  | 0  | 0  | 0  | 0       | 0       | 0       | 0   | 0       | 0      | 0       | -171 232   | -329 010   | -472 111   | -588 089   | -704 497   | -788 890   | -839 037   | -839 037   |

\* March 29, 2017 the operator has changed, because the concession contract with UAB „Vilniaus energija“ has expired.

\* September 6, 2019 Lietuvos Energojios Gamyba, AB changed its name to AB „Ignitis gamyba“.

## 4 CONCLUSIONS

Out of 37 investments approved in the National Investment Plan, 17 are implemented. During the reporting period of 2020 1 investment has been finished and 4 investments has been cancelled.

According to the allocation plan, total amount of 2.853.624 EUAs was planned to allocate in 2013-2020 period. However, not all the installations were involved in the investment process, therefore the final allocation for a period of 2013-2020 amounted to 1.580.000 EUAs (55% of planned in 2013-2020 period). The final allocation for 2020 amounts to 0.

**It should be noted that additional investments 2017 in project LT-\$-0035 was not included in the investment plan under the National application. Additional investments were made on own company initiative. Also, we want to note that the additional investment in the project LT-\$-0035, does not affect the final allocation of emission allowances allocated on 2017-2020. No additional allowances are allocated for additional investments. Unallocated allowances are not redistributed among investments. Report is corect and does not affect the allocation for 2019, provided to AB „Ignitis gamyba”.**

**It should be noted that on September 6, 2019 Lietuvos Energijos Gamyba, AB changed its name to AB „Ignitis gamyba”.**



## Annex

**Table 4: Compliance indicators of the finished investments, 2020**

| Investment number | Description            | Invested amount in 2020 | Compliance indicators                               |  |  |
|-------------------|------------------------|-------------------------|---|--|--|
|                   |                        | EUR                     | Increase of efficiency in electricity production, % | Reduction of CO <sub>2</sub> emissions in electricity production, t/year | Change in emission factor, t CO <sub>2</sub> /TJ |
| LT-S-0024         | Change of transformers | 25.000                  | -   | 140,64   | -  |

**Table 4: Compliance indicators of the finished investments, 2016**

| Investment number | Description  | Invested amount in 2016 | Compliance indicators                               |  |   |
|-------------------|--|-------------------------|---|--|---|
|                   |  | EUR                     | Increase of efficiency in electricity production, % | Reduction of CO <sub>2</sub> emissions in electricity production, t/year | Change in emissions factor, t CO <sub>2</sub> /TJ |
| LT-S-0035         | Investment in reduction of energy consumption for electricity production | 47.660                  | -   | 2.439  | -   |

**Table 5: Compliance indicators of the finished investments, 2015**

| Investment number | Description                        | Invested amount in 2015 | Compliance indicators                               |  |  |
|-------------------|------------------------------------|-------------------------|---|--|--|
|                   |                                    | EUR                     | Increase of efficiency in electricity production, % | Reduction of CO <sub>2</sub> emissions in electricity production, t/year | Change in emission factor, t CO <sub>2</sub> /TJ |
| LT-S-0039         | Construction of biofuelpower plant | 7.971.399               | -   | -  | 20.92  |

**Table 6: Compliance indicators of the finished investments, 2014**

| Investment number | Description   | Invested amount in 2014 |           | Compliance indicators                               |  |  |
|-------------------|---|-------------------------|-----------|---|--|--|
|                   |   | LTL                     | EUR       | Increase of efficiency in electricity production, % | Reduction of CO <sub>2</sub> emissions in electricity production, t/year | Change in emission factor, t CO <sub>2</sub> /TJ |
| LT-S-0006         | Reconstruction of transformer station KTP-102 in Alytus RK  | 900.000                 | 260.658   | Compliance with UCTE reliability requirements       |  |  |
| LT-S-0033         | Reconstruction of wastewater handling equipment reducing electricity consumption for managing of technological wastewater | 4.132.313               | 1.196.801 | 62,3  | 14,78 CO <sub>2</sub>  |  |

Table 7: Compliance indicators of the finished investments, 2013

| Investment number | Description   | Invested amount in 2013 |             | Compliance indicators                               |  |  |
|-------------------|---|-------------------------|-------------|---|--|--|
|                   |   | LTL                     | EUR         | Increase of efficiency in electricity production, % | Reduction of CO <sub>2</sub> emissions in electricity production, t/year | Change in emission factor, t CO <sub>2</sub> /TJ |
|                   |   |                         |             |   |  |  |
| LT-S-0001         | Construction of 5,4 MWe biomass CHP in Alytus RK  | 87.149.205              | 25.240.154  | 4,1   | 6.357  |  |
| LT-S-0007         | Reconstruction of 0,4 kV switchyard in Marijampole RK   | 698.169                 | 202.204     | Compliance with UCTE reliability requirements       |  |  |
| LT-S-0008         | Reconstruction of 6 kV switchyard of CHP No.2   | 16.345.623              | 4.734.020   | Compliance with UCTE reliability requirements       |  |  |
| LT-S-0017         | Construction of biofuel CHP   | 15.701.130              | 4.547.362   | 14  | 15.482   |  |
| LT-S-0018         | Installation of biofuel CHP   | 47.901.755              | 13.873.307  |   | 5.161  | -108,5   |
| LT-S-0020         | Optimisation of burning process in steam boiler No. 3   | 98.885                  | 28.639      |   | 240  |  |
| LT-S-0027         | Plant reconstruction to increase efficiency: more electricity is produced with the same installed capacity in KHE                             | 43.251.838              | 12.526.598  | 4   |  |  |
| LT-S-0028         | Reconstruction of hydrounits regulation systems to increase efficiency: more electricity is produced with the same installed capacity in KHAE | 2.757.961               | 798.761     | Compliance with UCTE reliability requirements       |  |  |
| LT-S-0029         | Installation of solar collectors for feeding water preparation. Conservation of electricity in KHAE   | 75.628                  | 21.903      | 10  |  |  |
| LT-S-0030         | Modernization of managing systems to increase efficiency  | 20.313.813              | 5.883.287   | 0,05  |  |  |
| LT-S-0031         | Building of a new 455 MW capacity KCDT block (closing two blocks) to increase electricity production efficiency about 30%                     | 1.305.009.902           | 377.956.992 | 93  |  |  |
| LT-S-0036         | Reduction of energy consumption for preparation of chemically treated water used for electricity production                                   | 75.000                  | 21.722      | 35,8  |  |  |