Environmental Goods and Services Sector (EGSS) statistics in Kazakhstan

Geneva 2020
Content

- Policy background;
- Priority accounts of SEEA for KZ;
- Work at national and international level;
- Main data sources;
- Compilation of EGSS statistics;
- Challenges in EGSS statistics;
- Next steps.
Policy background

Sustainable Development Goals (SDG)

Concept for transition of the RK to “Green economy”
Structure of the SEEA Central Framework

Priority Accounts for Kazakhstan

Data sources

- Emission inventory
- Water statistics
- Energy statistics
- Waste statistics
- Land and forest statistics
- National accounts
- International trade statistics
- Business statistics
- Government finance statistics
- Other (administrative data)

Environmental accounts

- Air emissions accounts
- Water emissions accounts
- Water flow accounts
- Energy and material flow accounts
- Solid waste accounts
- Land cover accounts
- Timber asset account
- Water asset accounts
- Mineral and energy asset accounts
- Environmental protection expenditure accounts
- Environmental taxes/subsidies
- Environmental goods and services sector

Physical flow accounts

Natural recourse/asset accounts

Environmental activity accounts
Work at national and international level

Data sharing agreement

Committee on Statistics

Ministry of ecology, geology and subsoil resources

Other stakeholders

1. WG on SEEA implementation

2. WG on SDG indicators

3. WG on implementation of GGI

OECD UNECE UNEP ESCAP WB
Main standards

Central Framework of the System of Environmental-Economic Accounting (UN)

Environmental goods and services sector (EUROSTAT)
Report on production and shipping of goods and services

Report on construction

Report on harvesting of agricultural yield
Environmental goods and services sector

Value added in sectors connected with environmental protection, section E Water supply, sewerage, waste management and remediation (NACE 36,37, 38, 39) (mln. tenge)

<table>
<thead>
<tr>
<th>Year</th>
<th>Gross output at basic prices</th>
<th>Intermediate consumption</th>
<th>Gross value added</th>
<th>Gross value added in % of GDP</th>
<th>GDP at current prices, total</th>
</tr>
</thead>
<tbody>
<tr>
<td>2010</td>
<td>184 711,5</td>
<td>117 894,1</td>
<td>64 817,4</td>
<td>0,3</td>
<td>21 815 517,0</td>
</tr>
<tr>
<td>2011</td>
<td>228 245,6</td>
<td>133 149,8</td>
<td>95 095,8</td>
<td>0,3</td>
<td>28 243 052,7</td>
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<tr>
<td>2012</td>
<td>230 634,0</td>
<td>131 023,6</td>
<td>99 610,4</td>
<td>0,3</td>
<td>31 015 186,6</td>
</tr>
<tr>
<td>2013</td>
<td>220 120,8</td>
<td>120 622,7</td>
<td>99 498,1</td>
<td>0,3</td>
<td>35 999 025,1</td>
</tr>
<tr>
<td>2014</td>
<td>228 696,4</td>
<td>124 724,2</td>
<td>103 972,2</td>
<td>0,3</td>
<td>39 675 832,9</td>
</tr>
<tr>
<td>2015</td>
<td>224 749,0</td>
<td>122 941,8</td>
<td>101 807,2</td>
<td>0,2</td>
<td>40 884 133,6</td>
</tr>
<tr>
<td>2016</td>
<td>264 661,5</td>
<td>147 305,6</td>
<td>117 355,9</td>
<td>0,2</td>
<td>46 971 150,0</td>
</tr>
<tr>
<td>2017</td>
<td>386 802,2</td>
<td>245 067,7</td>
<td>141 734,5</td>
<td>0,3</td>
<td>54 378 857,8</td>
</tr>
<tr>
<td>2018</td>
<td>405 405,2</td>
<td>249 316,4</td>
<td>156 088,8</td>
<td>0,3</td>
<td>61 819 536,4</td>
</tr>
</tbody>
</table>

Environmental goods and services sector

Employment in sectors connected with environmental protection, section E Water supply, sewerage, waste management and remediation (NACE 36,37, 38, 39)

<table>
<thead>
<tr>
<th></th>
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<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>thousand people</td>
<td></td>
<td>57,4</td>
<td>64,6</td>
<td>77,3</td>
<td>80,1</td>
<td>86,5</td>
<td>81,9</td>
<td>80,2</td>
<td>74,2</td>
<td>80,4</td>
</tr>
<tr>
<td>% of total employment</td>
<td>%</td>
<td>0,7</td>
<td>0,8</td>
<td>0,9</td>
<td>0,9</td>
<td>1,0</td>
<td>1,0</td>
<td>0,9</td>
<td>0,9</td>
<td>0,9</td>
</tr>
<tr>
<td>Employment, total</td>
<td>thousand people</td>
<td>8 114,2</td>
<td>8 301,6</td>
<td>8 507,2</td>
<td>8 570,6</td>
<td>8 510,1</td>
<td>8 433,3</td>
<td>8 553,4</td>
<td>8 585,2</td>
<td>8 695,0</td>
</tr>
</tbody>
</table>
INTRODUCTION OF GREEN GROWTH INDICATORS IN THE REPUBLIC OF KAZAKHSTAN

National Report based on the OECD Green Growth Indicators
Change in accounting methods and data sources:

1. Estimating variables using surveys

2. Develop approaches and methods for the identification and classification of the EGSS:
   - Identifying the population:
     - Identification of environmental activities;
     - Identification of environmental technologies, goods and services (TGS);
     - Link TGS, activities and producers;
     - Build a database of EGSS producers.
   - Use country examples (Netherlands, Canada, Sweden, Germany).
# Reference book on activities and environmental protection expenditures and resource management

<table>
<thead>
<tr>
<th>Item code</th>
<th>Item title</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Protection of ambient air and climate</td>
</tr>
<tr>
<td>2</td>
<td>Wastewater Management</td>
</tr>
<tr>
<td>3</td>
<td>Waste management</td>
</tr>
<tr>
<td>4</td>
<td>Protection and restoration of soil, groundwater and surface water sources</td>
</tr>
<tr>
<td>5</td>
<td>Fighting noise and vibration</td>
</tr>
<tr>
<td>6</td>
<td>Protection of biodiversity and landscapes</td>
</tr>
<tr>
<td>7</td>
<td>Radiation Protection</td>
</tr>
<tr>
<td>8</td>
<td>Research and development of environmental</td>
</tr>
<tr>
<td>9</td>
<td>Other environmental activities</td>
</tr>
<tr>
<td>10</td>
<td>Water management</td>
</tr>
<tr>
<td>11</td>
<td>Forest management</td>
</tr>
<tr>
<td>12</td>
<td>Management of wild flora and fauna</td>
</tr>
<tr>
<td>13</td>
<td>Fossil Energy Management</td>
</tr>
<tr>
<td>14</td>
<td>Mineral Resource Management</td>
</tr>
<tr>
<td>15</td>
<td>Research and Development in Natural Resource Management</td>
</tr>
<tr>
<td>16</td>
<td>Other natural resource management activities</td>
</tr>
</tbody>
</table>
Main stakeholders

• Committee on statistics;
• Ministry of national economy;
• Ministry of ecology, geology and natural resources:
  – Committee of environmental regulation and control;
  – Green academy;
• Ministry of finance;
• Ministry of agriculture;
  – Committee on land resources;
• International Organizations;
• Scientific society, students.
Challenges in EGSS statistics

• Identification of environmental activities;
• Identification of environmental technologies, goods and services;
• Build database of EGSS producers;
• Exports of EGS;
• New area - lack of experience;
• Lack of human resources.
Next steps

• Improvement of statistical toolkit (methodologies, classifications, surveys);
• Cooperation on national and international level;
• Identifying the population;
• Compilation of data on exports of EGS;
• Organization of 2nd OECD-SEEA workshop in March 2020;
• SEEA working group meeting in April 2020;
• Participation in workshops/seminars/trainings.
Thank you for attention

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