

Introduction of Environmental- Economic Accounts in Russia: New Plans and Current Work

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Plans for the development of environmental statistics

In October 2012 a ***Governmental plan*** of environmental statistics development was adopted in Russia.

The major purpose of the work:

- improvement of environmental, first of all, ***natural resources statistics***, and
- development of ***resource productivity (RP)*** measurements.

This task fosters new efforts in the field of SEEA introduction.

In this connection the work will be concentrated on the development and production of:

- - ***Asset accounts***
- - ***Physical flow accounts***
- - ***Environmental activity accounts***

Plans for the development of environmental statistics

- The Plan considers development of systematic statistics, including:
 - *stock inventory* in physical and monetary terms (annual),
 - *changes in stock* in physical units and value (annual),
 - *uses of resources* (annual).

Plans for the development of environmental statistics

This data should be developed for major types of natural resources:

- ***Land:***

value and changes since 2016,
including

- ***Agricultural land:***

- stock inventory in physical units since 2016
- changes in stock in physical units since 2016
- uses in physical units since 2016

- ***Water resources, Mineral and Energy resources,
Natural aquatic resources, Timber resources,
Biological resources:***

- stock inventory (units and market value) since 2016
- changes (units and market value) since 2016
- uses (units and market value) since 2019

Plans for the development of environmental statistics

- The Plan stipulates that since 2016 the SNA *balance sheet* will include *natural resources* on annual basis.
- Assessment of *natural resources productivity* will be published on regular (annual) basis since 2018.
- *Quarterly* natural resource data for the *balance sheet* and *resource productivity* will be introduced after 2018

Plans for the development of environmental statistics

Research programme (started 2013) includes **development of methodology** for:

1) evaluation of

mineral and energy resources

2013

water resources

2013

biological resources

2014

timber resources

2014

land

2014

natural aquatic resources

2015

2) *resource productivity* assessment

2016

3) *SEEA asset accounts* construction

2016

SEEA data availability

Asset Accounts

Physical Asset Account for Environmental Assets - 2016

	Mineral & energy resources	Land (incl. forest land)	Soil resources	Timber resources		Aquatic resources		Water resources
				Cultivated	Natural	Cultivated	Natural	
Opening stock of resources	x	x	x	x	x	x	x	x
Additions to stock of resources								
<i>Growth in stock</i>	na	x	Soil formation Soil deposition	Growth	Natural growth	Growth	Natural growth	Precipitation Return flows
<i>Discoveries of new stock</i>	x	na	na	na	na	x	x	x
<i>Upwards reappraisals</i>	x	x	x	x	x	x	x	x
<i>Reclassifications</i>	x	x	x	x	x	x	x	x
<i>Total additions to stock</i>								
Reductions in stock of resources								
<i>Extractions</i>	Extractions	na	Soil extraction	Removals	Removal	Harvest	Gross catch	Abstraction
<i>Normal reductions in stock</i>	na	na	Erosion	Natural losses	Natural losses	Normal losses	Normal losses	Evaporation Evapotranspiration
<i>Catastrophic losses</i>	x	x	x	x	x	x	x	x
<i>Downwards reappraisals</i>	x	x	x	x	x	x	x	x
<i>Reclassifications</i>	x	x	x	x	x	x	x	na
<i>Total reductions in stock</i>								
Closing stock of resources	x	x	x	x	x	x	x	x

SEEA data availability

Physical Flows Accounts Physical Supply and Use Table

	<i>Industries</i>	<i>Households</i>	<i>Accumulation</i>	<i>Rest of the world</i>	<i>Environment</i>	<i>Total</i>
Supply table						
<i>Natural inputs</i>					Flows from the environment	Total supply of natural inputs
<i>Products</i>	Output			Imports		Total supply of products
<i>Residuals</i>	Residuals generated by industry	Residuals generated by final household consumption	Residuals from scrapping and demolition of produced assets			Total supply of residuals
Use table						
<i>Natural inputs</i>	Extraction of natural inputs					Total use of natural inputs
<i>Products</i>	Intermediate consumption	Household final consumption	Gross capital formation	Exports		Total use of products
<i>Residuals</i>	Collection & treatment of waste and other residuals		Accumulation of waste in controlled landfill sites		Residual flows direct to environment	Total use of residuals



2016



2019

SEEA data availability

Environmental activity accounts *Environmental Protection*

Environmental protection expenditures mln rubles

	2005	2010	2011	2012
Total	233930	372382	412014	432446
<i>including:</i>				
Protection of ambient air and climate	53765	80071	88362	89020
Wastewater management	105369	169152	197073	196279
Waste management	22739	41510	44172	36328
Protection and remediation of soil, groundwater and surface water	13444	17219	23435	33905
Protection of biodiversity and landscapes	12542	22975	13381	17850
Other environmental protection activities	26071	41455	45591	59064
Total, % of GDP	1,1	0,8	0,8	0,7

SEEA data availability

Asset Accounts

*Physical Asset Account for Environmental Assets -
2016*

Target:

Construction of recommended table

"Total national expenditure on environmental protection"
(SEEA Central Framework, Table 4.3.3)

1)	Adaptation of Classification of Environmental Activities	2014 - 2015
2)	Integration environmental activities into Input-Output tables	Next generation of basic IOT (for 2016) - 2019-2020

Thank you
for your
patience!