



**NATIONAL STATISTICAL COMMITTEE
OF THE REPUBLIC OF BELARUS**

ENVIRONMENTAL PROTECTION IN THE REPUBLIC OF BELARUS

Short data book

MINSK

2023

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The Short data book provides information on the state of the environment, availability and use of natural resources, and environmental expenditure.

The publication presents green growth indicators and selected environmental indicators of the National list of Sustainable Development Goals indicators.

The information on types of economic activity is given in accordance with the National Classifier of the Republic of Belarus OKRB 005-2011 "Types of economic activity".

Data in value terms are provided at current prices.

In certain cases data for 2022 are provisional and will be revised in further issues. Relative indicators are calculated on the basis of absolute figures with smaller units of measure. In certain cases minor discrepancies between the total and the sum of its components can be explained by data rounding.

Relative indicators for 2018 – 2019 were calculated using the population numbers (average annual population) adjusted for the 2019 Population census results.

A brief glossary of statistical terms is available on the Belstat website at <https://www.belstat.gov.by/metodologiya/kratkiy-glossariy-statisticheskikh-terminov/> (in Russian only).

The methodologies for environmental statistics are available on the Belstat website at <https://www.belstat.gov.by/metodologiya/metodiki-po-formirovaniyu-i-raschetu-statistichesk/> (in Russian only).

More detailed official statistics are available in the Interactive Business Intelligence System for Distribution of Official Statistical Information (dataportal.belstat.gov.by).

ABBREVIATIONS:

m	- metre	f.e	- fuel equivalent	°C	- degree Celsius
m ³	- cubic metre	kg	- kilogramme	%	- percent
ha	- hectare	t	- tonne	BYN	- Belarusian rubles
km	- kilometre	O ₂	- oxygen	thsd	- thousand
km ²	- square kilometre	CO ₂	- carbon dioxide	mln	- million
mm	- millimetre	MPC	- maximum permissible concentration	GVA	- gross value added

Explanation of symbols:

—	not applicable
0.0	negligible magnitude
...	data not available

ISBN 978-985-7307-44-9

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<http://www.belstat.gov.by>

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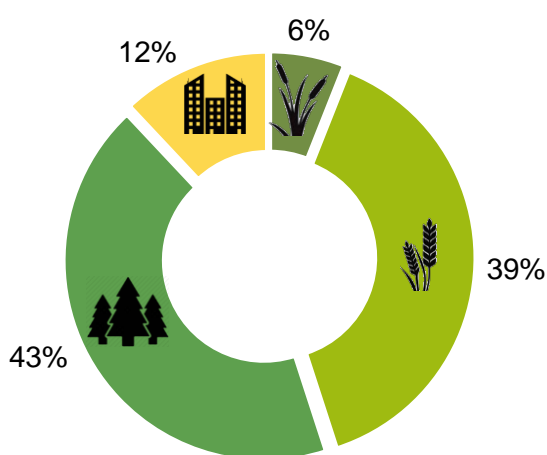
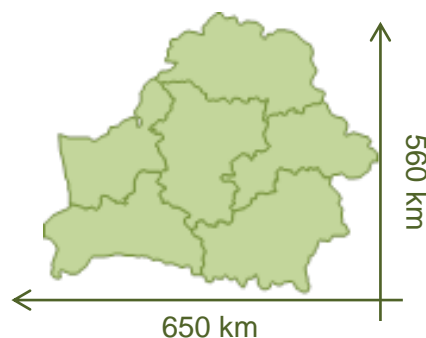
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1. MAIN GEOGRAPHIC CHARACTERISTICS OF THE REPUBLIC OF BELARUS

Area¹⁾
207.6 thsd km²



Land structure¹⁾

- Land under swamps and water bodies
- Agricultural land
- Forest land
- Other land

Average annual air temperatures²⁾

7.7 °C



Average annual precipitation²⁾

724 mm



49 800 mln m³

Renewable freshwater resources²⁾

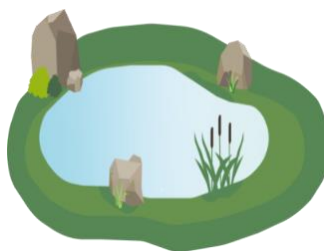


¹⁾ Data of the State Committee on Property of the Republic of Belarus.

²⁾ Data of the Ministry of Natural Resources and Environmental Protection of the Republic of Belarus.

Deepest lake¹⁾

Dolgoye
53.6 m



Largest lake¹⁾

Naroch
79.6 km²
(surface area)



Dnieper
689 km
(within country's territory)

Longest river¹⁾

Largest reservoir¹⁾

Vileyskoye
77 km²
(surface area)



Forest cover²⁾

40.1%



Forest fund²⁾

9 719.6
thsd ha

Protected areas¹⁾

9.1%
(of the country's area)



nature reserves,
national parks

refuges

natural monuments

Number
of areas

Total area,
thsd ha

5

475.5

375

1 415.9

958

12.8

¹⁾ Data of the Ministry of Natural Resources and Environmental Protection of the Republic of Belarus.

²⁾ Data of the Ministry of Forestry of the Republic of Belarus.

2. NATIONAL SUSTAINABLE DEVELOPMENT GOAL INDICATORS



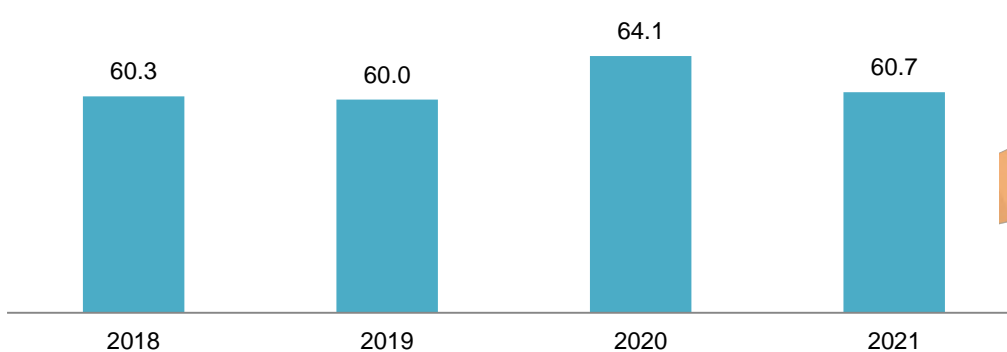
2.1. Selected indicators of SDG 6. Ensure availability and sustainable management of water and sanitation for all

6.3.1. Proportion of domestic and industrial wastewater flows safely treated¹⁾ (percent)



	2018	2019	2020	2021
Republic of Belarus	99.6	99.6	99.7	99.8
Brest region	99.9	99.9	99.9	100
Vitebsk region	100	100	100	100
Gomel region	99.7	99.9	99.9	99.9
Grodno region	99.9	99.8	99.9	100
Minsk city	100	100	100	100
Minsk region	98.3	97.8	98.6	98.7
Mogilev region	99.6	99.9	99.9	100

6.4.1. Change in water-use efficiency over time¹⁾



■ Water-use efficiency in the Republic of Belarus (BYN per cubic metre; GVA at 2015 prices taking into account the 2016 retrospective redenomination)

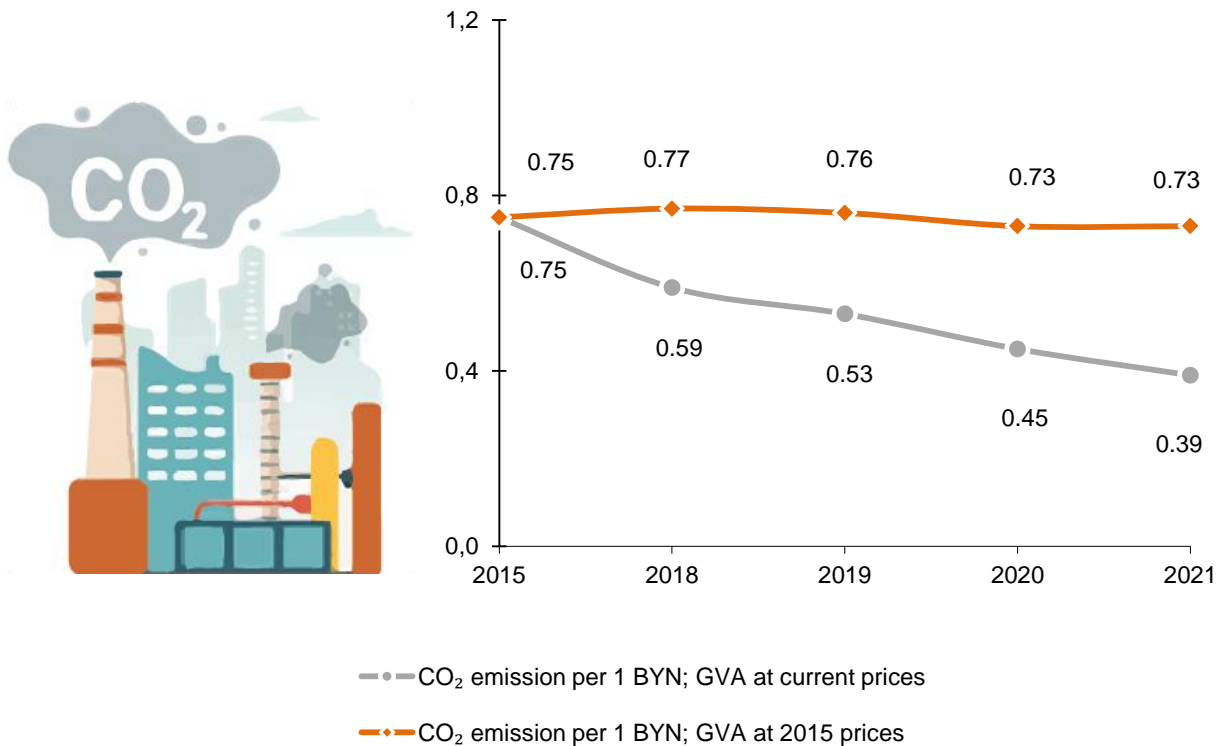
¹⁾ Data of the Ministry of Natural Resources and Environmental Protection of the Republic of Belarus.



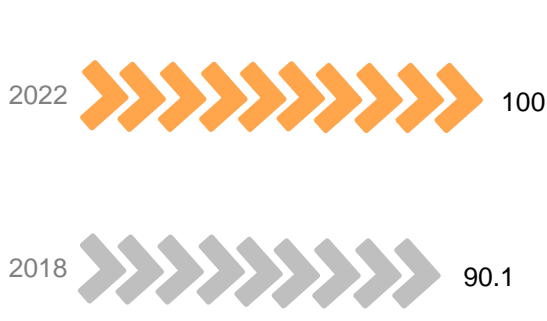
2.2. Selected indicators of SDG 9. Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation

9.4.1. CO₂ emission per unit of value added

(kilogrammes per 1 BYN; GVA for 2015 taking into account the 2016 retrospective redenomination)



2.3. Selected indicators of SDG 11. Make cities and human settlements inclusive, safe, resilient and sustainable



11.6.1.1. Proportion of the population using service of disposal of solid municipal waste regularly¹⁾ (percent)

¹⁾ Data of the Ministry of Housing and Communal Services of the Republic of Belarus.

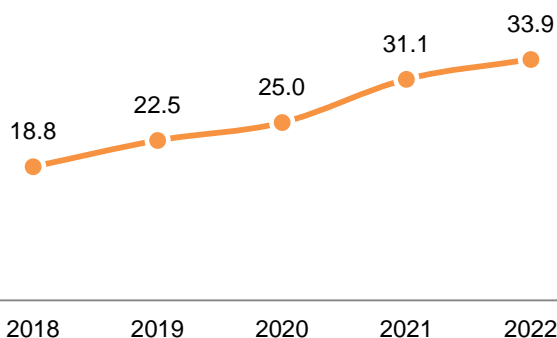
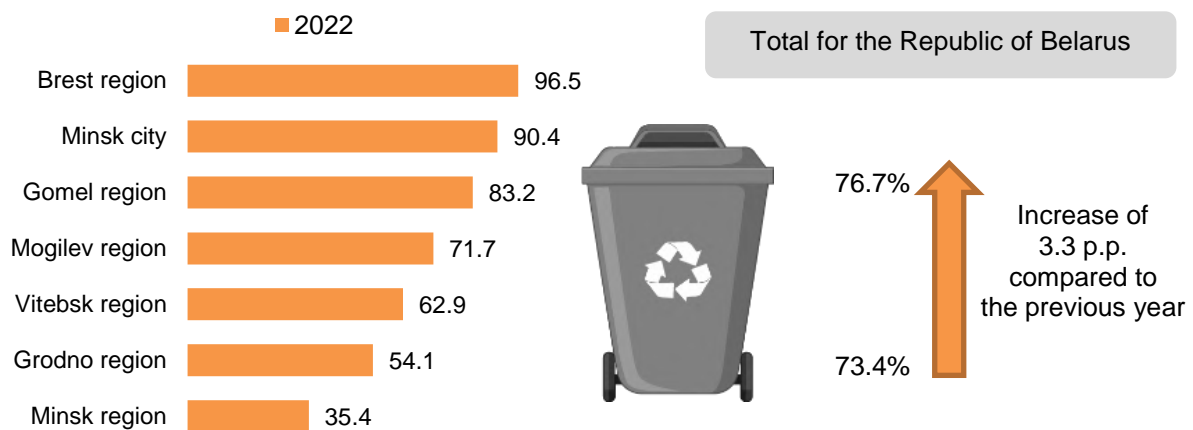


2.4. Selected indicators of SDG 12. Ensure sustainable consumption and production patterns

12.4.2.1. Industrial waste of hazard classes 1 – 3 generated per capita (kilogrammes)



12.4.2.2. Proportion of recovered industrial waste of hazard classes 1-3 in total industrial waste of hazard classes 1-3 generated¹⁾ (percent)



12.5.1.1. Proportion of municipal solid waste recovered in total municipal solid waste generated²⁾ (percent)

¹⁾ Data of the Ministry of Natural Resources and Environmental Protection of the Republic of Belarus. Recovered industrial waste is reflected taking into account partial recovery of previously accumulated waste.

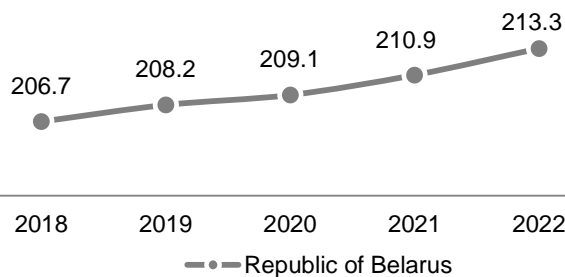
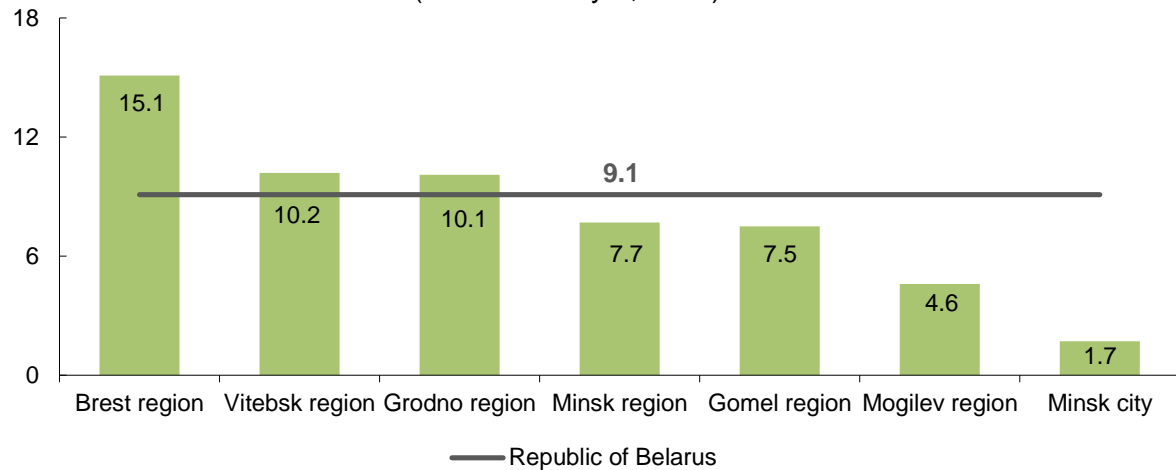
²⁾ Data of the Ministry of Housing and Communal Services of the Republic of Belarus.



2.5. Selected indicators of SDG 15. Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss

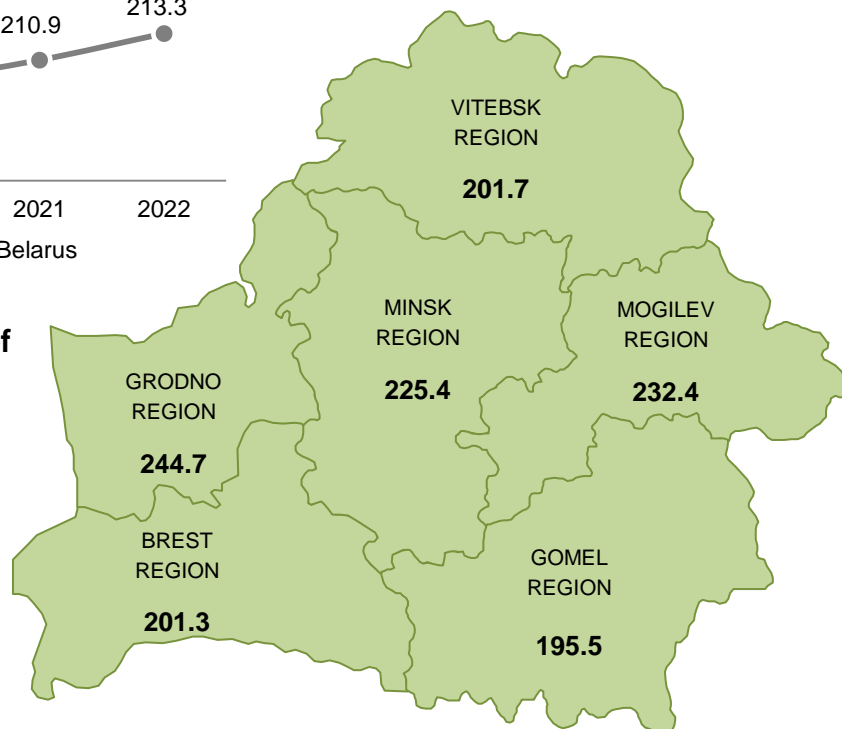
15.1.2.1. Proportion of protected areas in the total area of the country (regions and Minsk city)¹⁾ (percent)

(as of January 1, 2023)



15.2.1.2. Average stock of forest vegetation²⁾ (cubic metres per 1 hectare)

2022



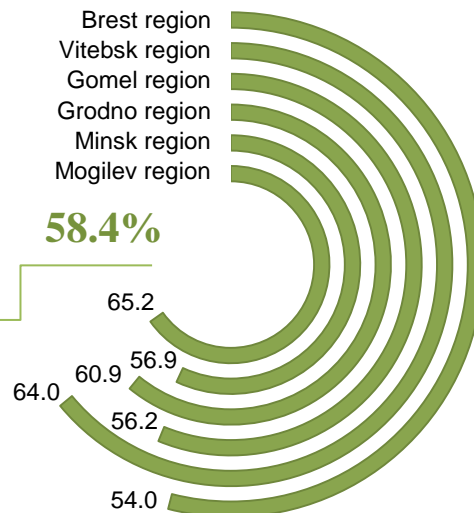
¹⁾ Data of the Ministry of Natural Resources and Environmental Protection of the Republic of Belarus.

²⁾ Data of the Ministry of Forestry of the Republic of Belarus.

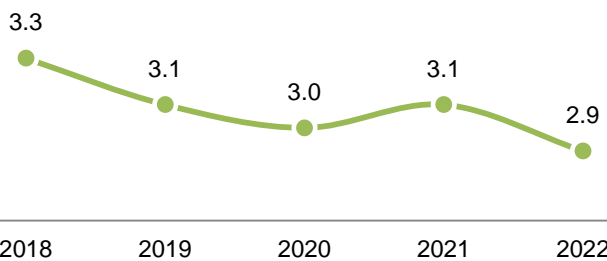
15.2.1.3. Proportion of established forest plantations based on genetic selection in total forest planting and seeding in 2022 (percent)



Republic of Belarus



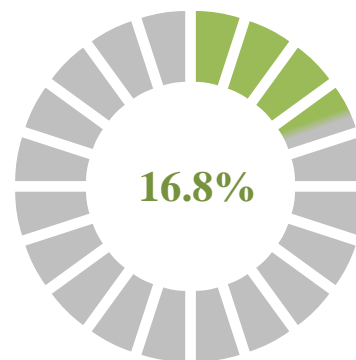
15.2.1.4. Average volume of timber harvesting from one hectare of forest land¹⁾ (cubic metres)



15.2.1. Progress towards sustainable forest management in 2022¹⁾



of the forest area is covered by the long-term management plan

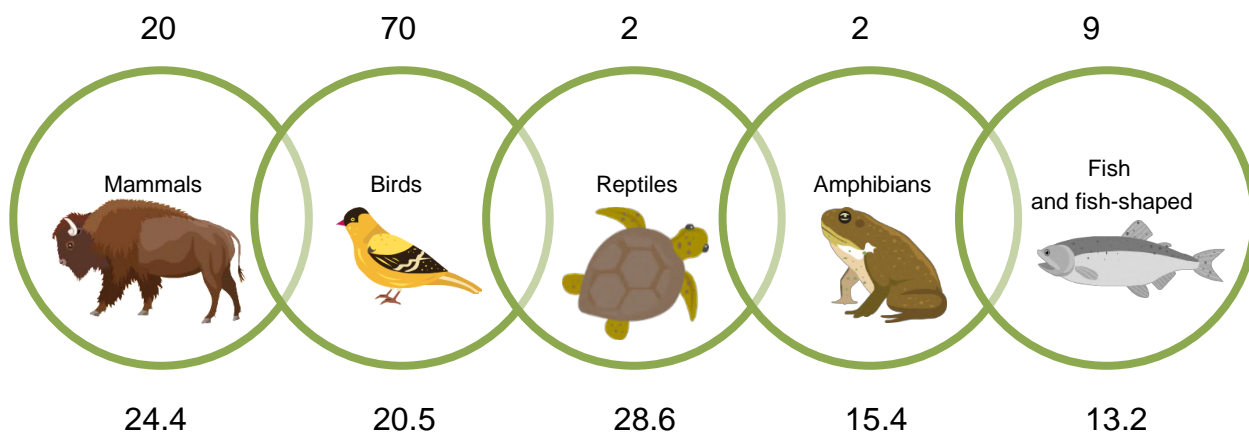


of the forest area is located within the boundaries of protected areas

¹⁾ Data of the Ministry of Forestry of the Republic of Belarus.

15.5.1.1. Rare and endangered wildlife animal species in 2022¹⁾

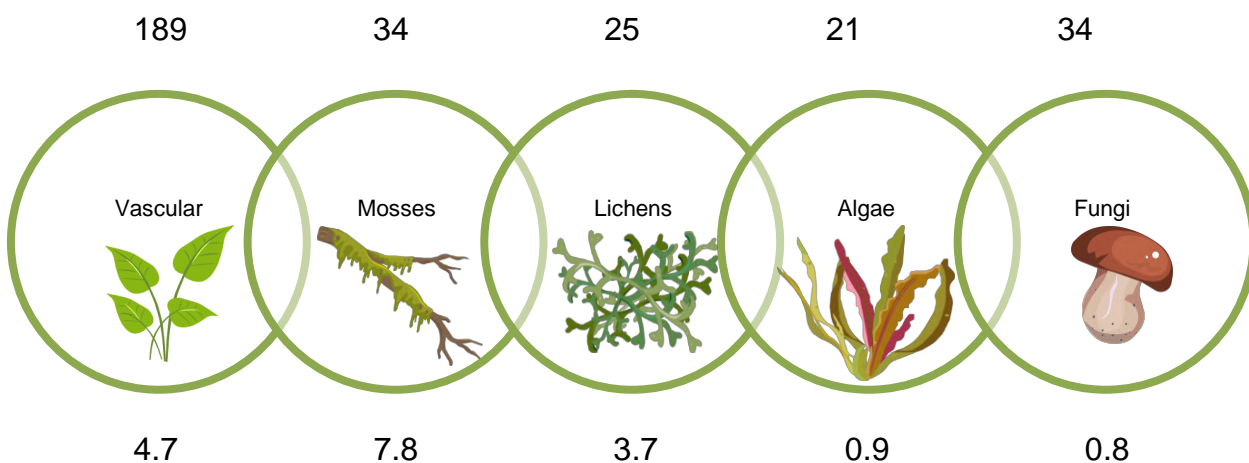
Number of rare and endangered species included
in the Red Data Book of the Republic of Belarus



Proportion of rare and endangered species included
in the Red Data Book of the Republic of Belarus
in the total number of species, percent

15.5.1.2. Rare and endangered wildlife plant species in 2022¹⁾

Number of rare and endangered species included
in the Red Data Book of the Republic of Belarus



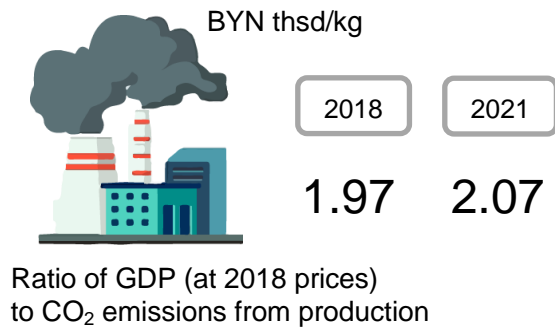
Proportion of rare and endangered species included
in the Red Data Book of the Republic of Belarus
in the total number of species, percent

¹⁾ Data of the National Academy of Sciences of Belarus.

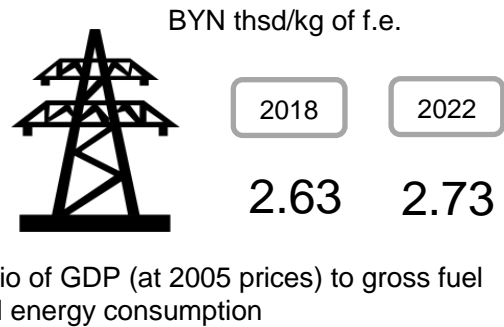
3. GREEN GROWTH INDICATORS

3.1. Environmental and resource productivity of the economy

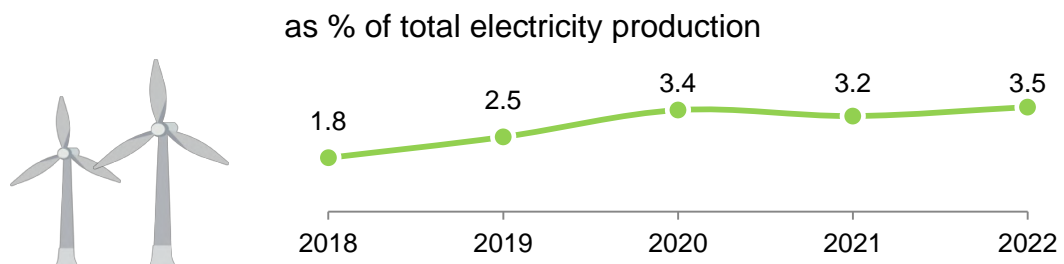
Production-based carbon productivity



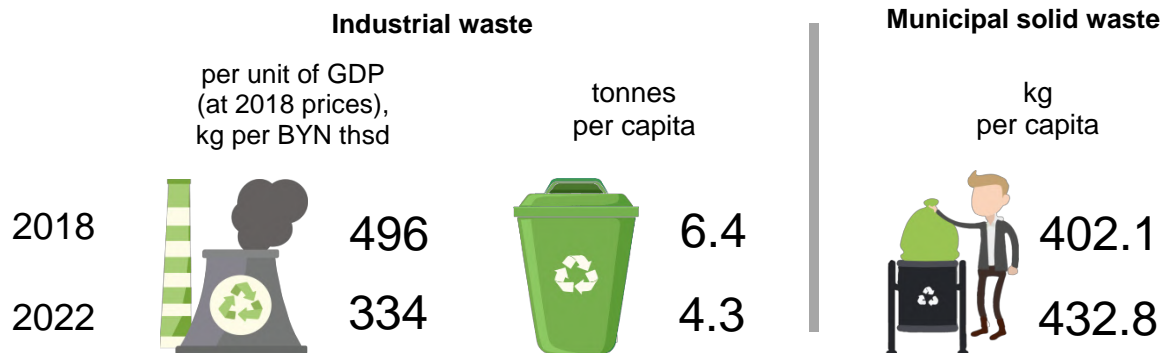
Energy productivity



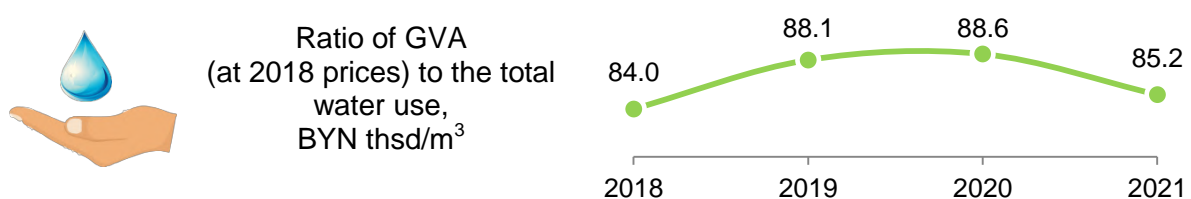
Renewable electricity



Waste generation intensity



Water-use efficiency



3.2. Natural assets

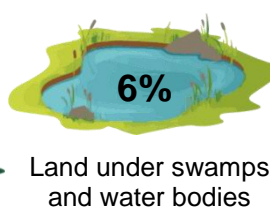
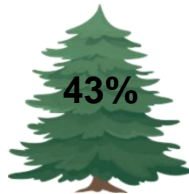
Land resources¹⁾

as of January 1, 2023

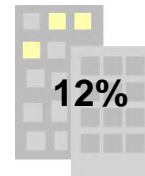
20 762.9 thsd ha



Forest land



Other land



Forest resources²⁾

as of January 1, 2023



9 719.6 thsd ha

stock
of forest
vegetation1 905.7 mln m³marketable
timber
harvested25.7 mln m³

40.1%
of the territory of
Belarus is covered
by forests

Freshwater resources³⁾

2021

49 800 mln m³

2.9%

water exploitation
index

2022

153 m³
per capitawater abstraction
from natural sources

Wildlife resources⁴⁾

2022

82 species
of mammals342 species
of birds7 species
of reptiles68 species
of fish4 034 species
of vascular
plants

¹⁾ Data of the State Committee on Property of the Republic of Belarus.

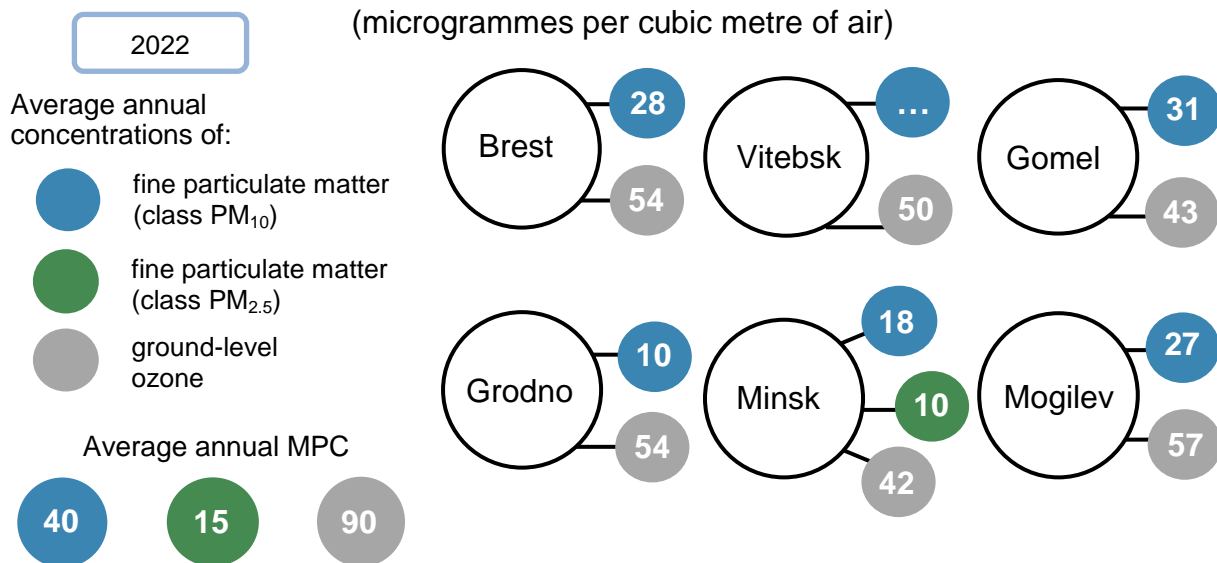
²⁾ Data of the Ministry of Forestry of the Republic of Belarus.

³⁾ Data of the Ministry of Natural Resources and Environmental Protection of the Republic of Belarus.

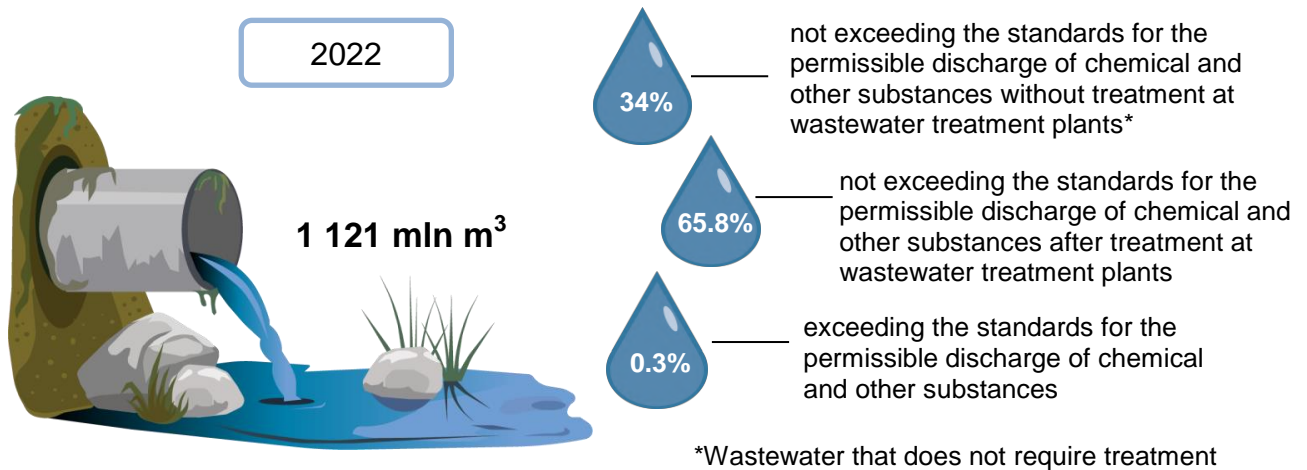
⁴⁾ Data of the National Academy of Sciences of Belarus.

3.3. Environmental quality of life

Average annual concentrations of selected pollutants in the atmosphere of selected cities¹⁾

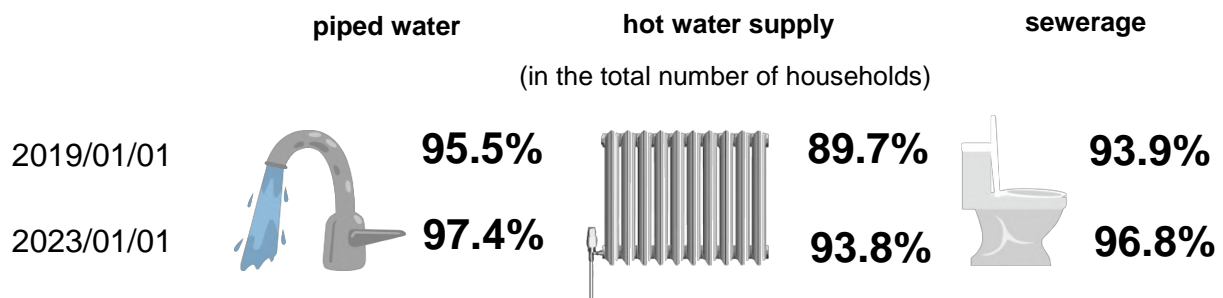


Wastewater discharge into surface water bodies¹⁾



Access to water use supply and sanitation

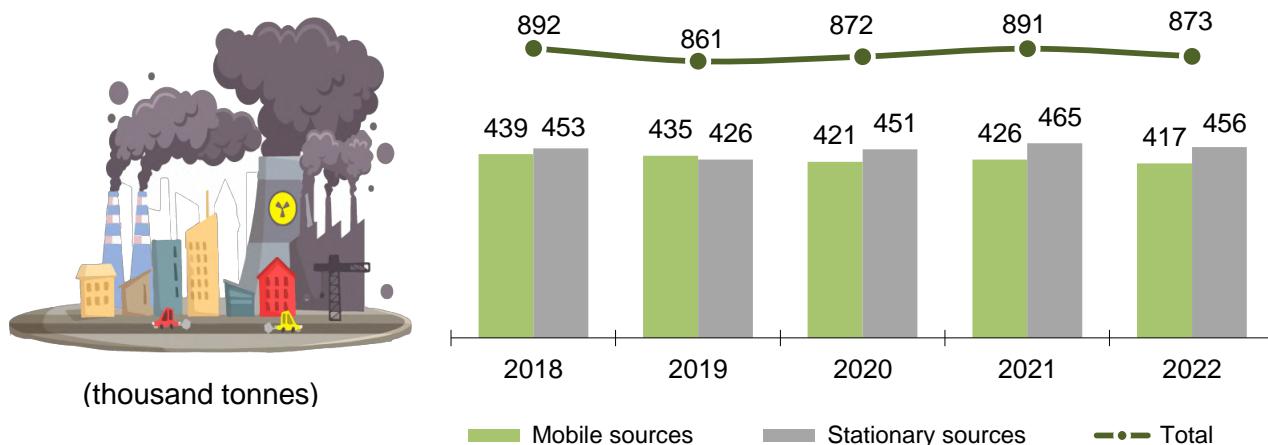
Share of households living in apartments/houses equipped with:



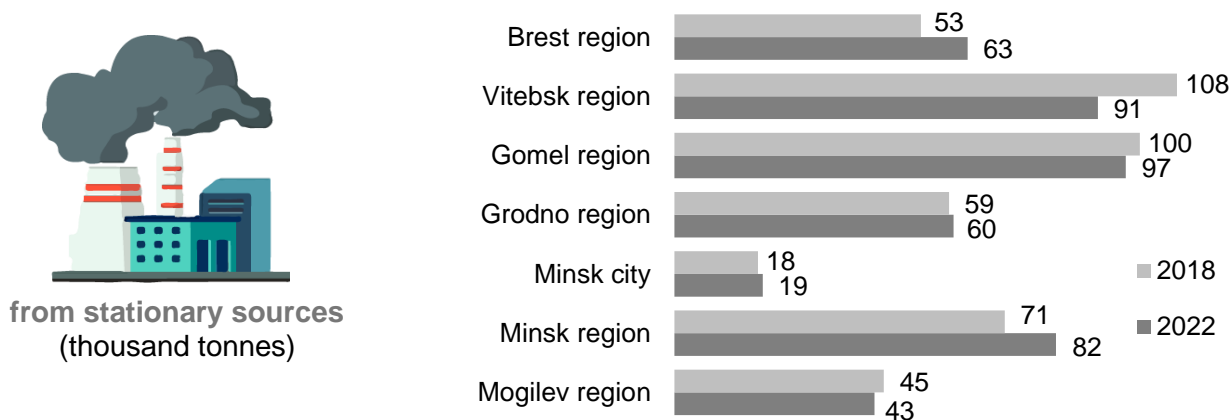
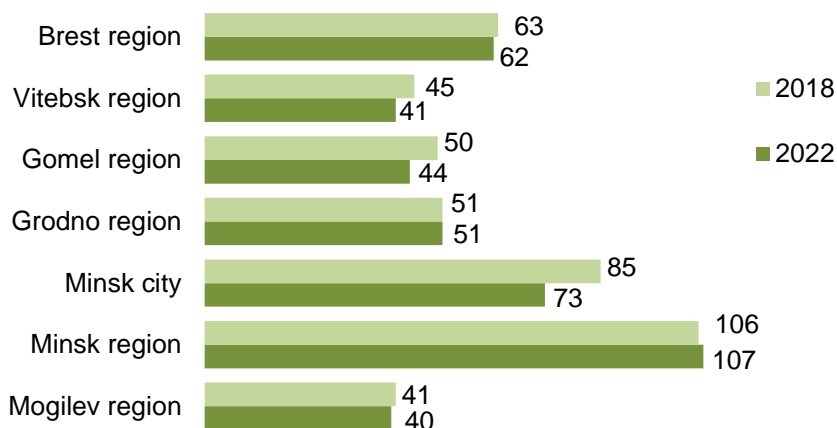
¹⁾ Data of the Ministry of Natural Resources and Environmental Protection of the Republic of Belarus.

4. AMBIENT AIR PROTECTION AND CLIMATE CHANGE¹⁾

4.1. Dynamics of air polluting emissions from mobile and stationary sources



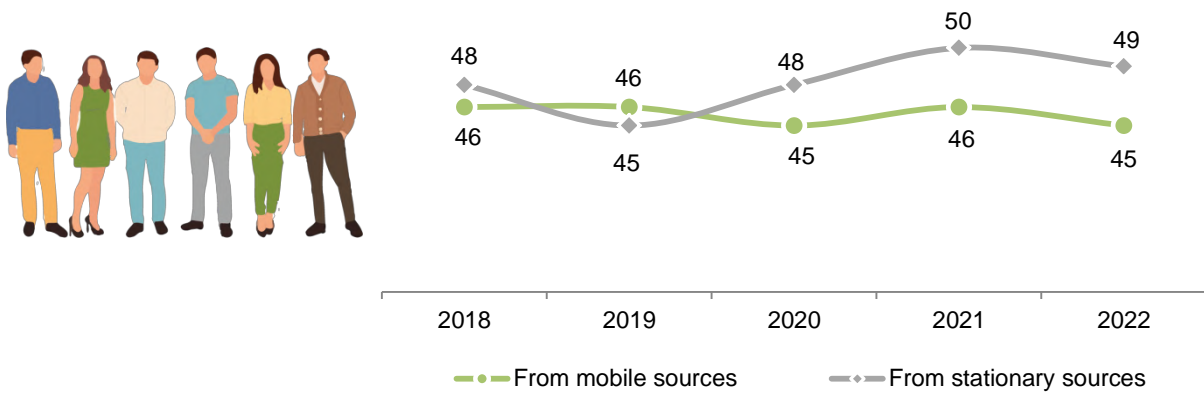
4.2. Air polluting emissions from mobile and stationary sources by regions and Minsk city



¹⁾ Data of the Ministry of Natural Resources and Environmental Protection of the Republic of Belarus. Data on air polluting emissions from mobile sources for 2018 – 2021 have been adjusted taking into account changes in the calculation methodology in accordance with international approaches.

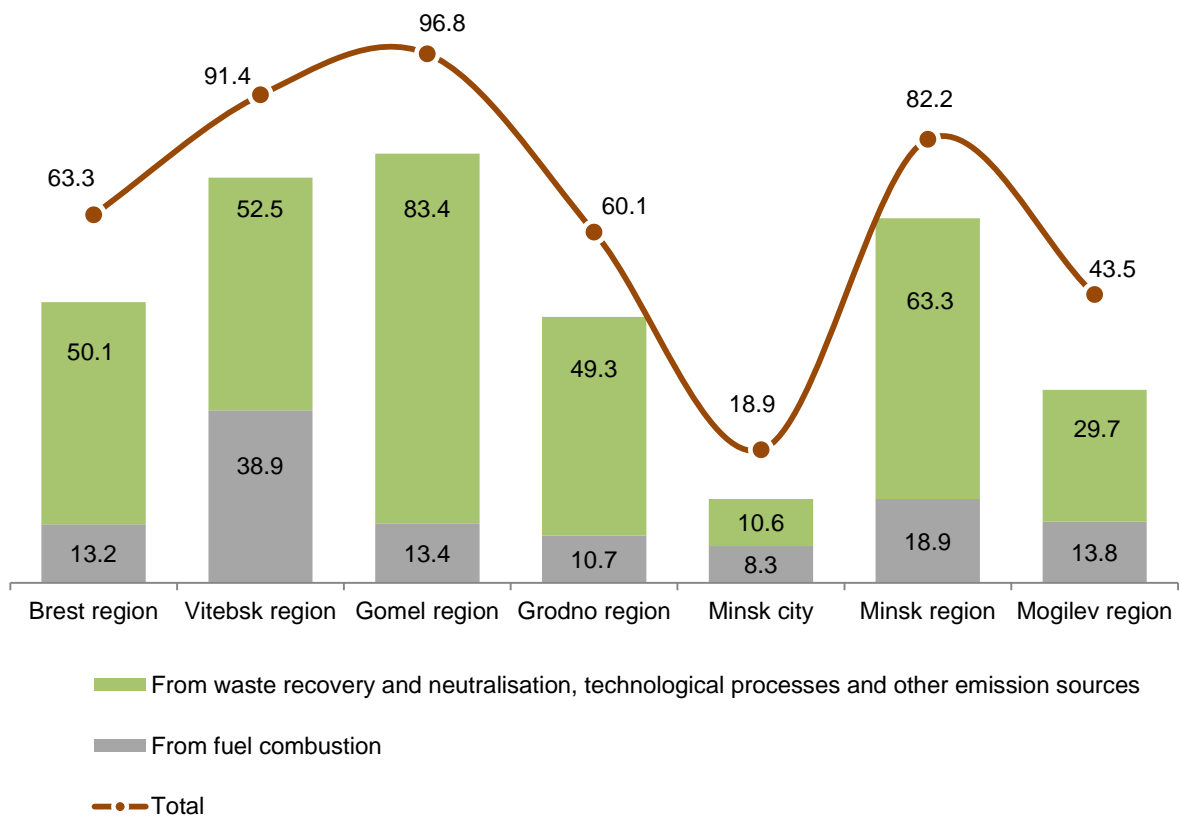
4.3. Air polluting emissions per capita

(kilogrammes)



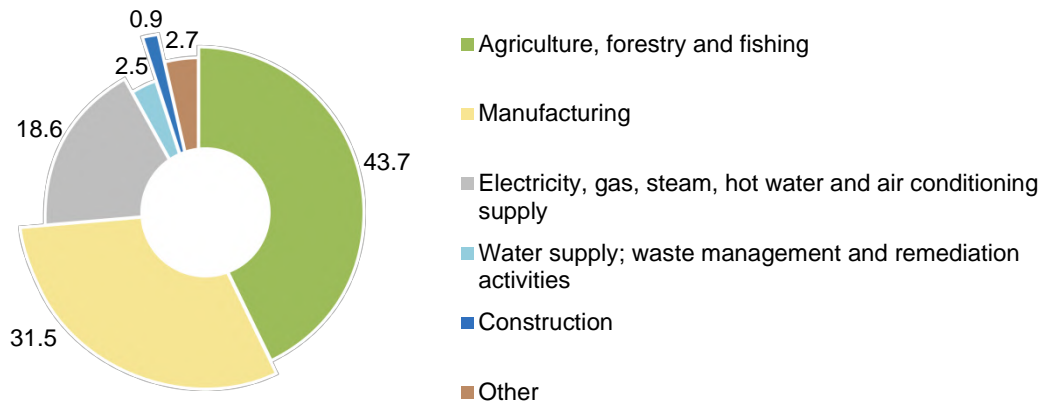
4.4. Air polluting emissions from stationary sources by regions and Minsk city in 2022

(thousand tonnes)

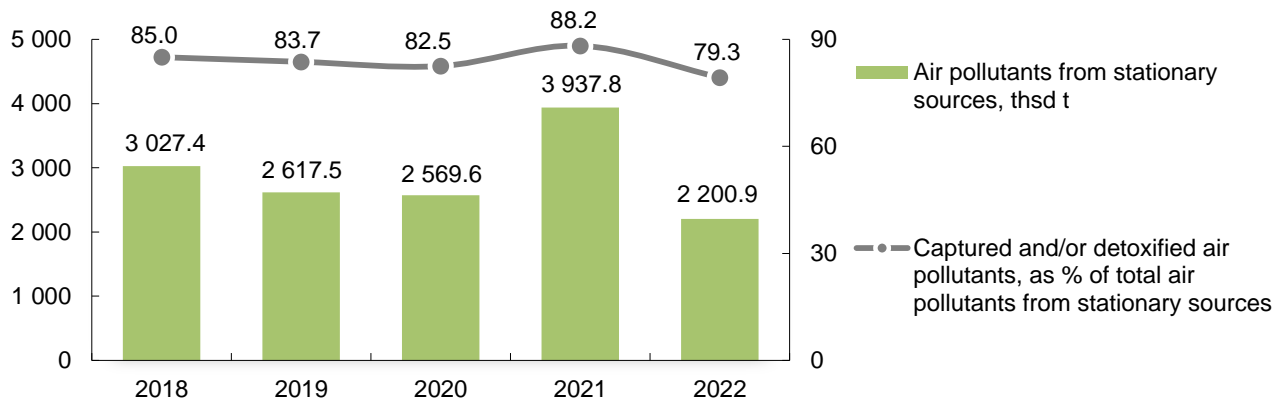


4.5. Structure of air polluting emissions from stationary sources by economic activity in 2022

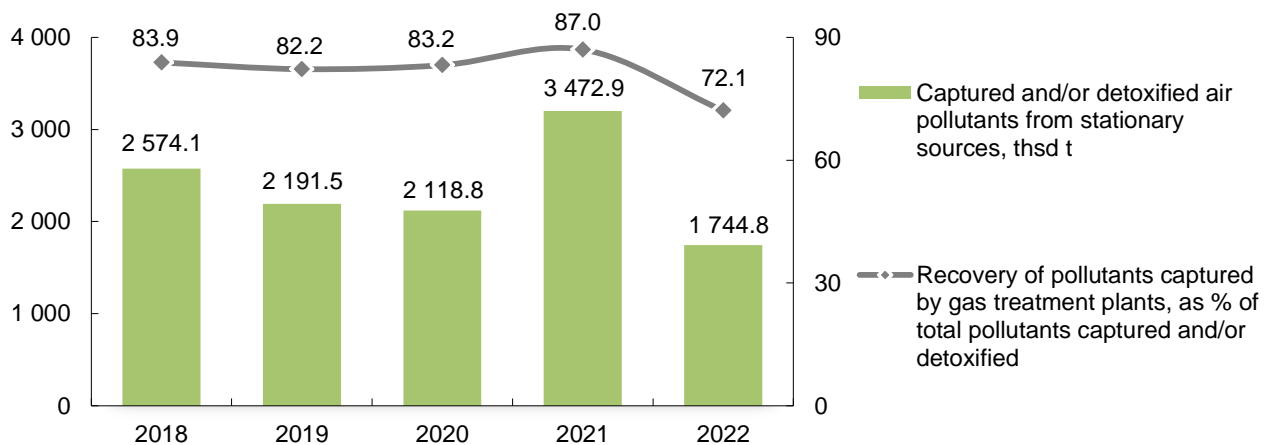
(as percent of total)



4.6. Air pollutants from stationary sources



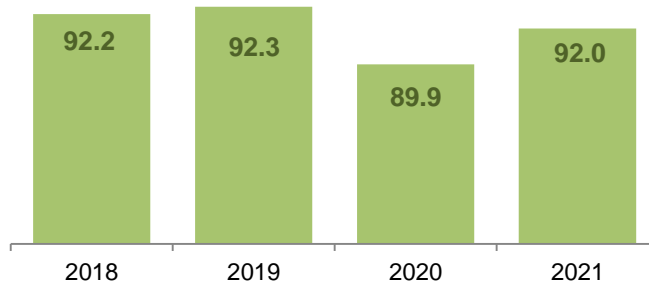
4.7. Captured and/or detoxified air pollutants from stationary sources



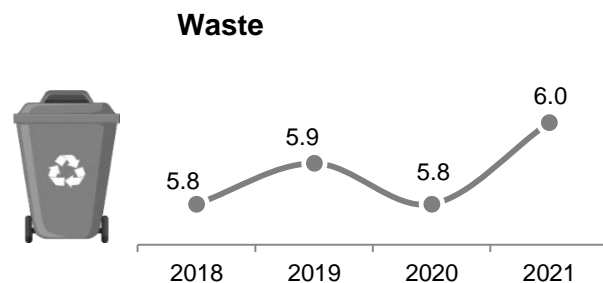
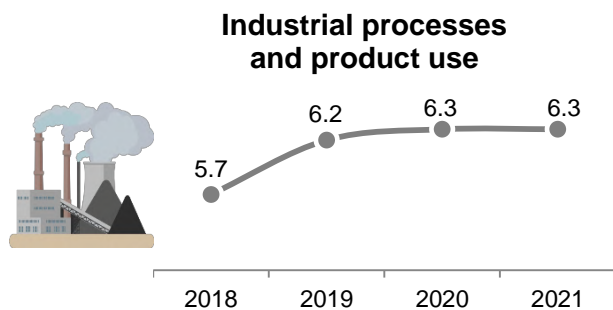
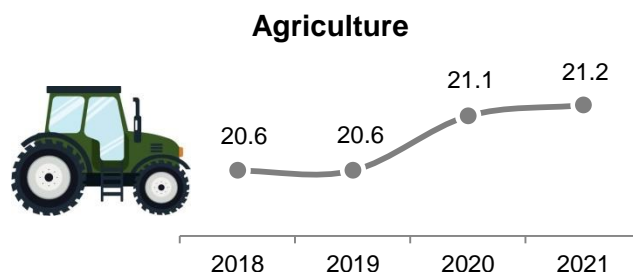
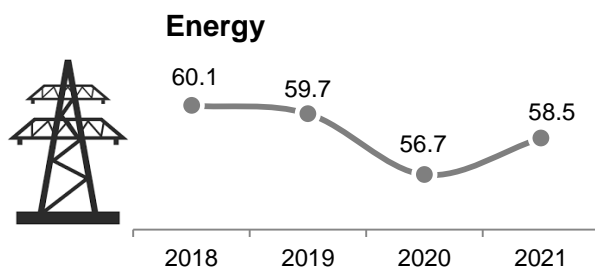
4.8. Greenhouse gas emissions

Greenhouse gas emissions without land use, land-use change and forestry

(million tonnes in terms of CO₂ per year)

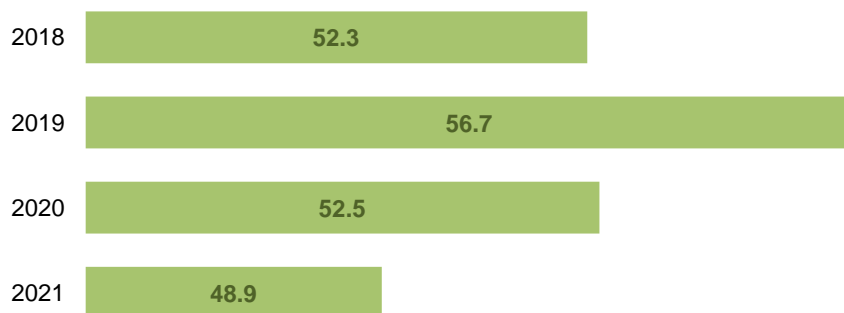


of which by sector

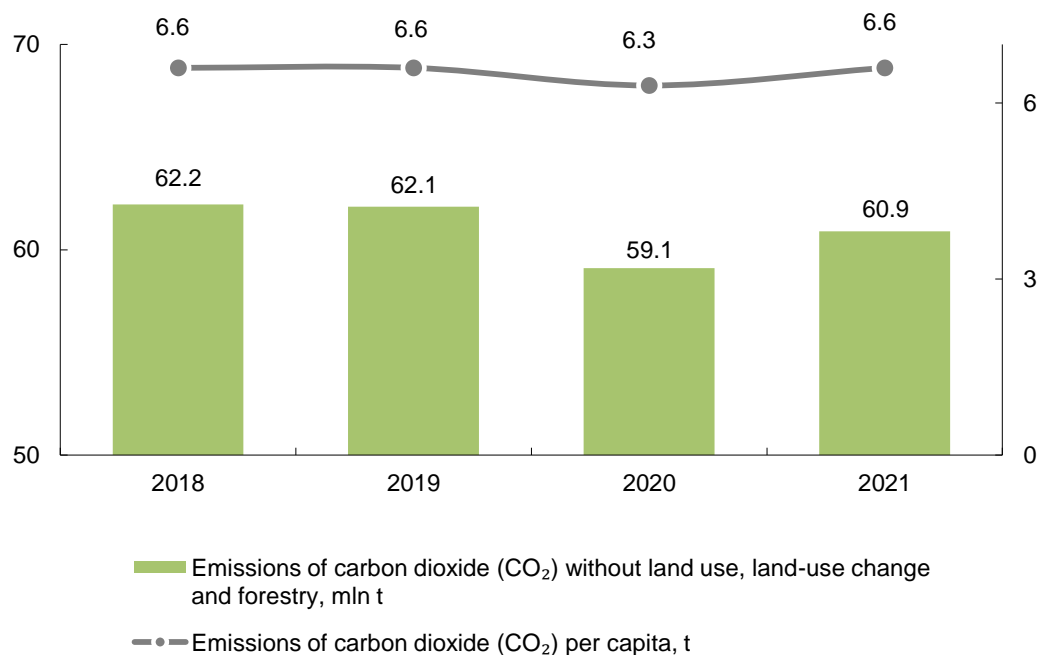


Greenhouse gas emissions with land use, land-use change and forestry

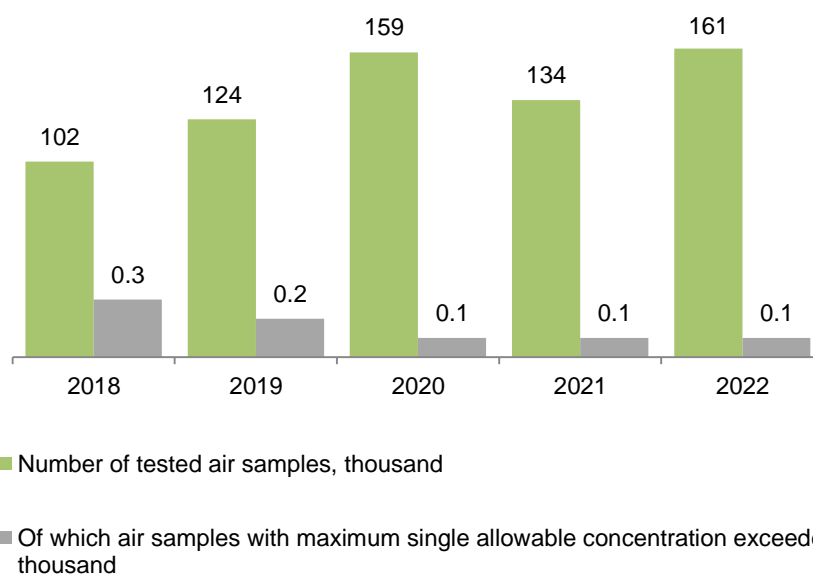
(million tonnes in terms of CO₂ per year)



4.9. Emissions of carbon dioxide (CO₂)



4.10. Air quality monitoring¹⁾

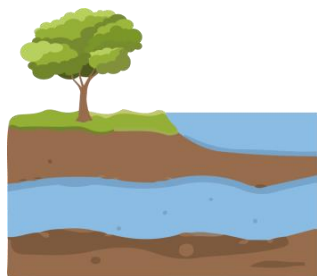


¹⁾ Data of the Ministry of Health of the Republic of Belarus.

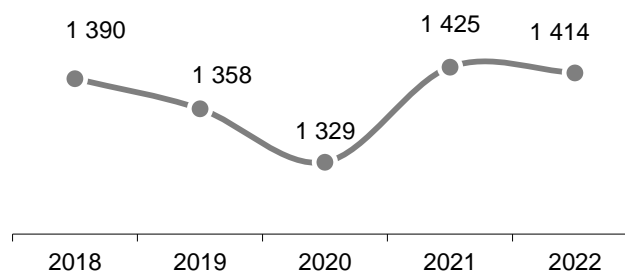
5. PROTECTION AND USE OF WATER RESOURCES¹⁾

5.1. Key indicators of protection and use of water resources

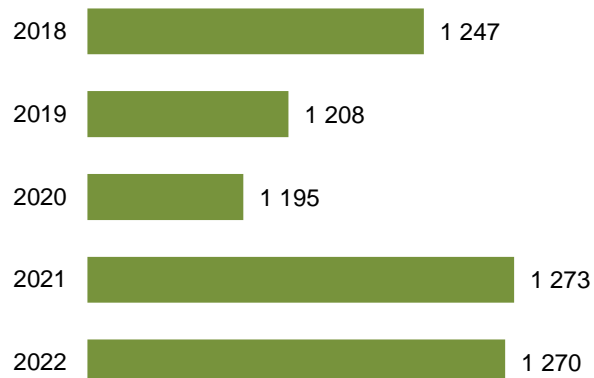
(million cubic metres)



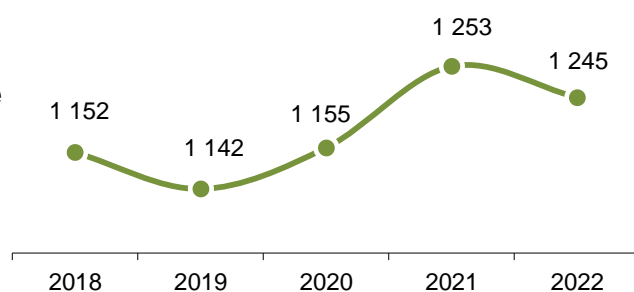
Water abstraction from natural sources



Water use



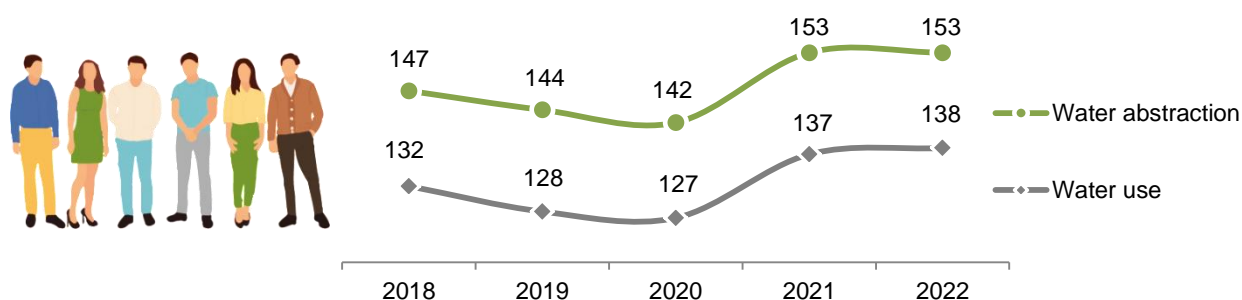
Water discharge into the environment



¹⁾ Data of the Ministry of Natural Resources and Environmental Protection of the Republic of Belarus.

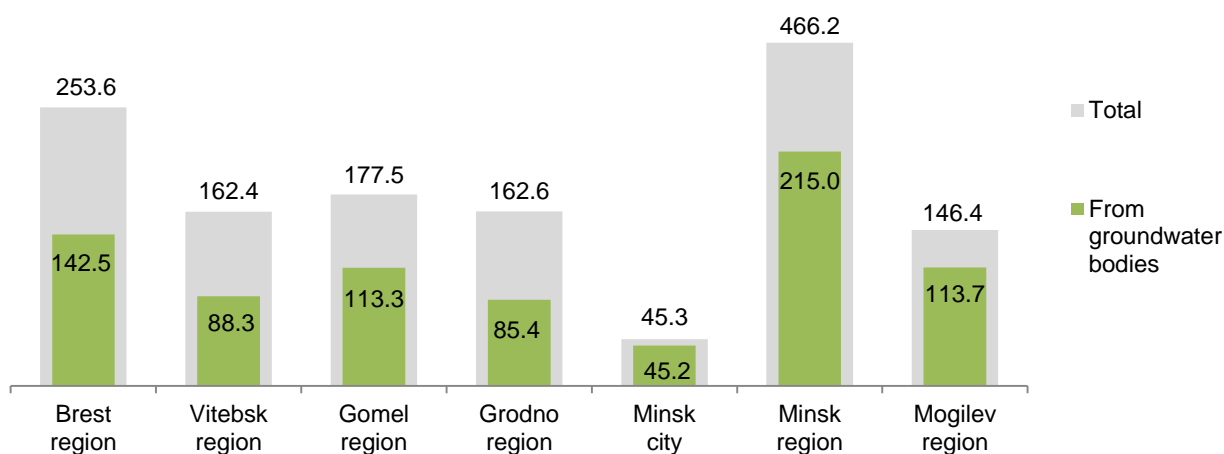
5.2. Water abstraction from natural sources and water use per capita

(cubic metres)



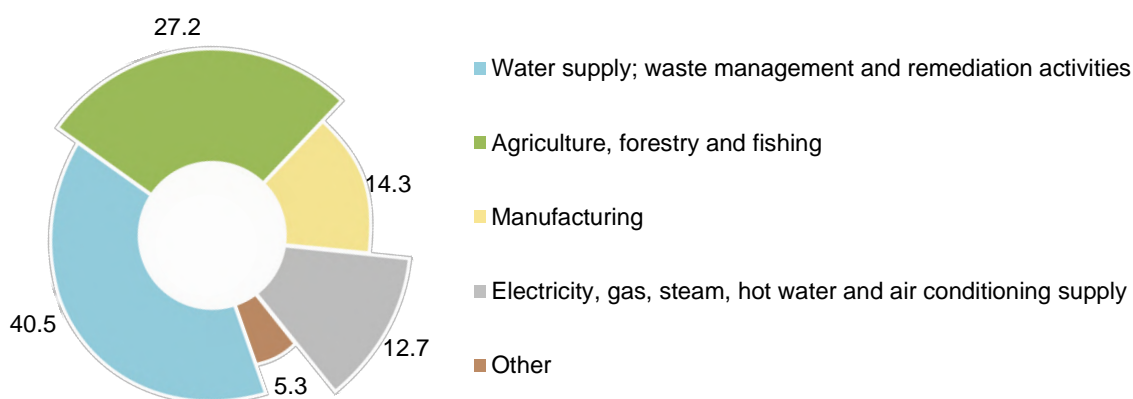
5.3. Water abstraction from natural sources by regions and Minsk city in 2022

(million cubic metres)



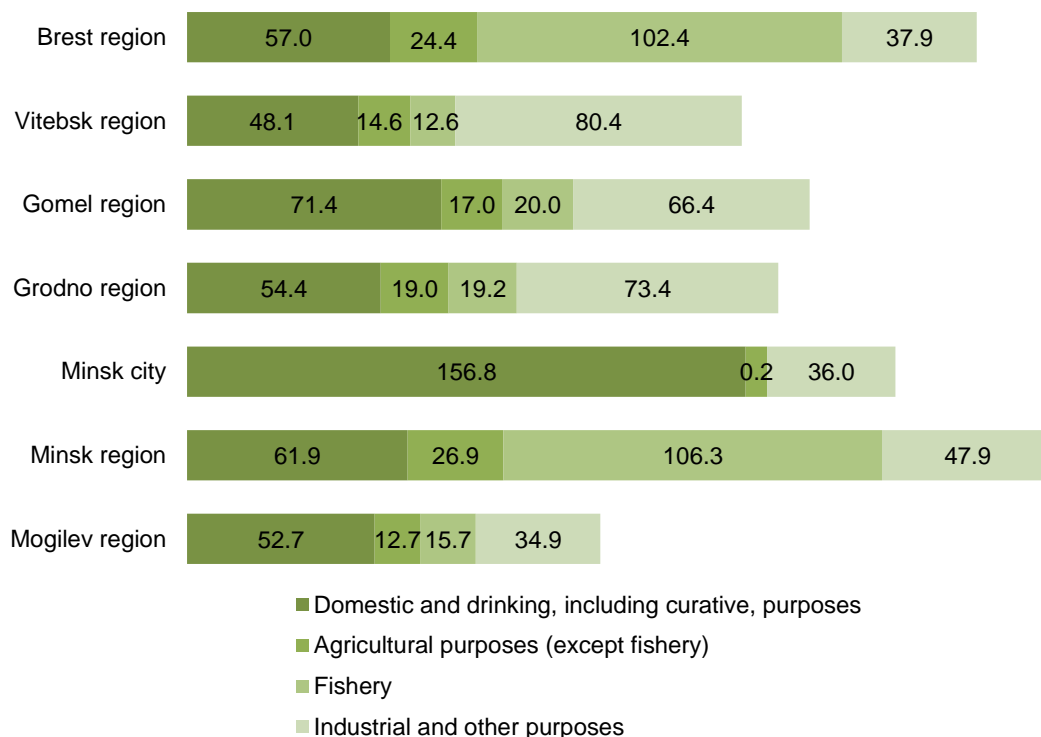
5.4. Structure of water abstraction from natural sources by economic activity in 2022

(as percent of total)



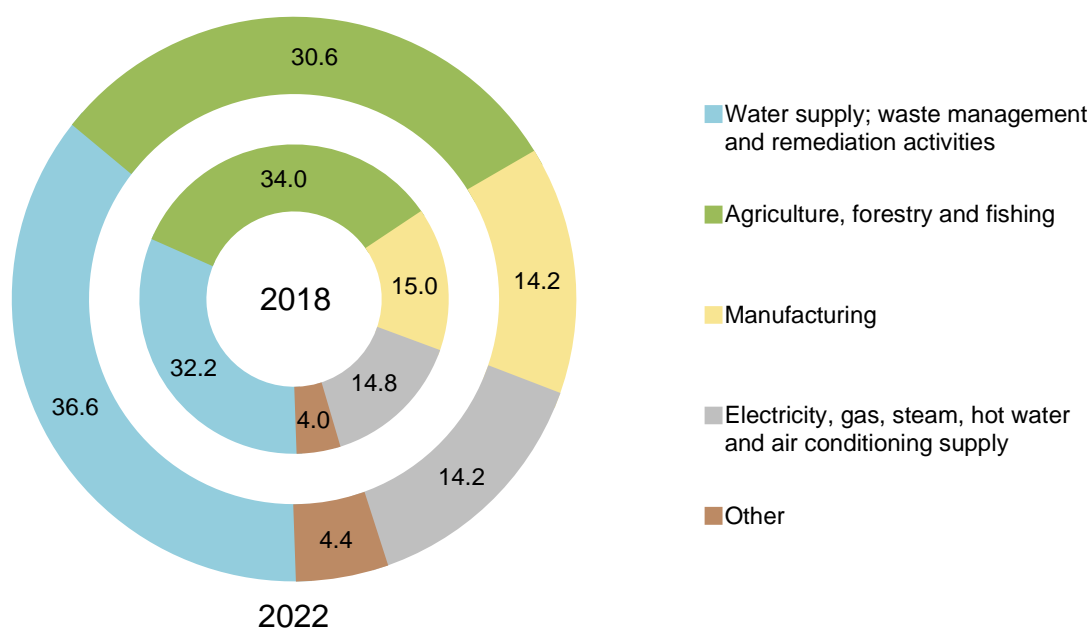
5.5. Water use by regions and Minsk city in 2022

(million cubic metres)



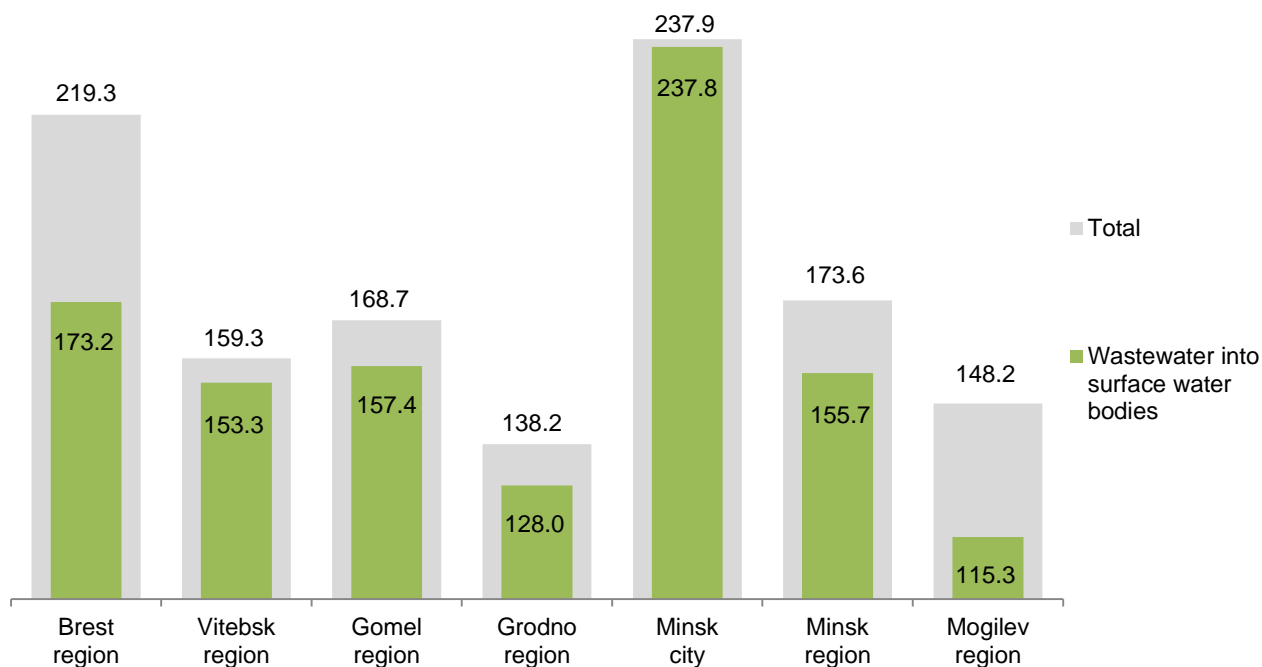
5.6. Structure of water use by economic activity

(as percent of total)



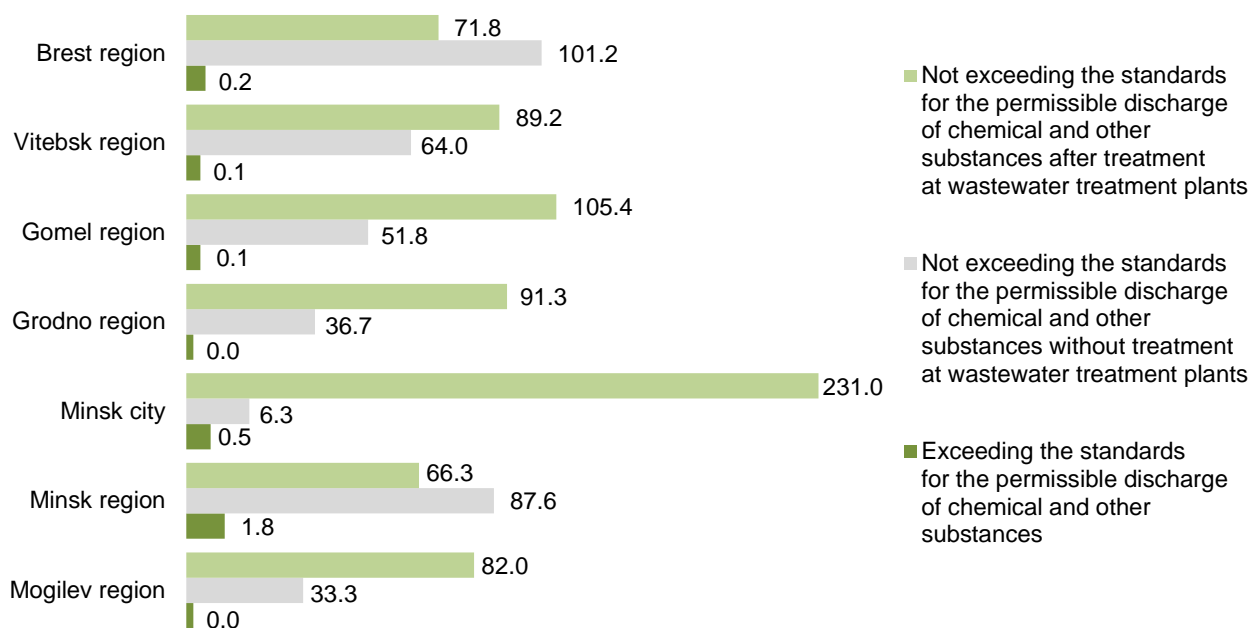
5.7. Water discharge by regions and Minsk city in 2022

(million cubic metres)



5.8. Wastewater discharge into surface water bodies by degree of treatment by regions and Minsk city in 2022

(million cubic metres)



6. PROTECTION OF FOREST RESOURCES

6.1. Forest fund land by region¹⁾

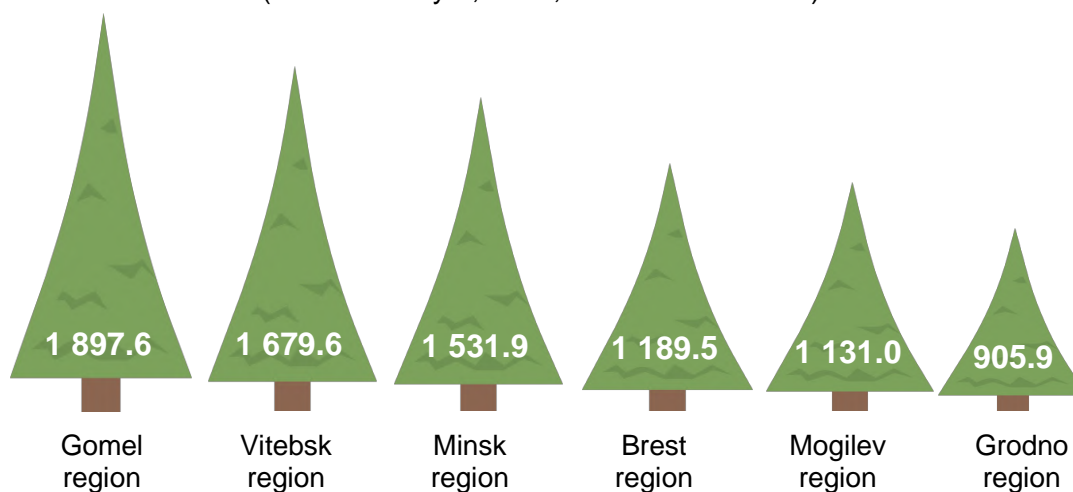
Total area of forest fund

as of January 1; thousand hectares

	2019	2020	2021	2022	2023	as of January 1, 2023; as % of total
Republic of Belarus	9 598.5	9 620.9	9 690.0	9 706.9	9 719.6	
Brest region	1 421.7	1 421.9	1 426.7	1 430.3	1 431.4	14.7
Vitebsk region	1 894.5	1 896.9	1 930.1	1 935.7	1 936.2	19.9
Gomel region	2 291.7	2 298.6	2 307.7	2 310.4	2 314.7	23.8
Grodno region	996.6	999.1	1 010.8	1 010.4	1 011.4	10.4
Minsk region	1 727.1	1 734.3	1 735.9	1 738.8	1 741.3	17.9
Mogilev region	1 266.9	1 270.2	1 278.8	1 281.2	1 284.6	13.2

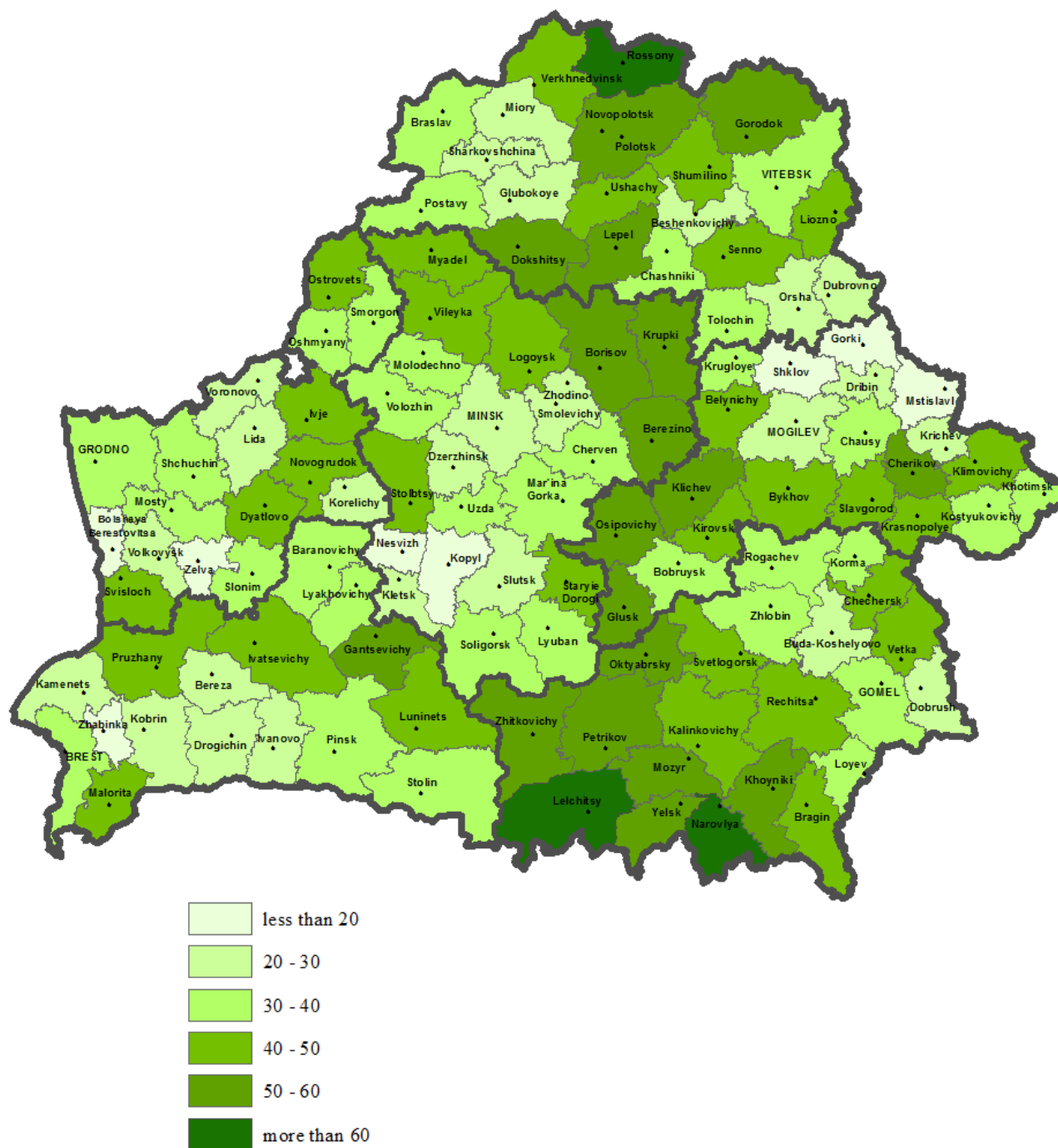
Land area covered by forests

(as of January 1, 2023; thousand hectares)



¹⁾ Data of the Ministry of Forestry of the Republic of Belarus.

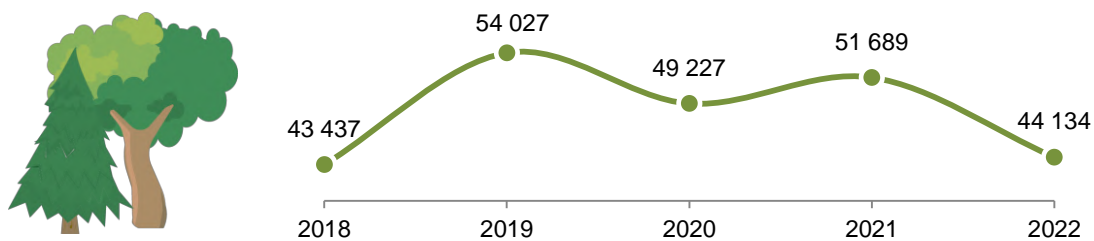
6.2. Forest cover of the territory by district as of January 1, 2023¹⁾ (percent)



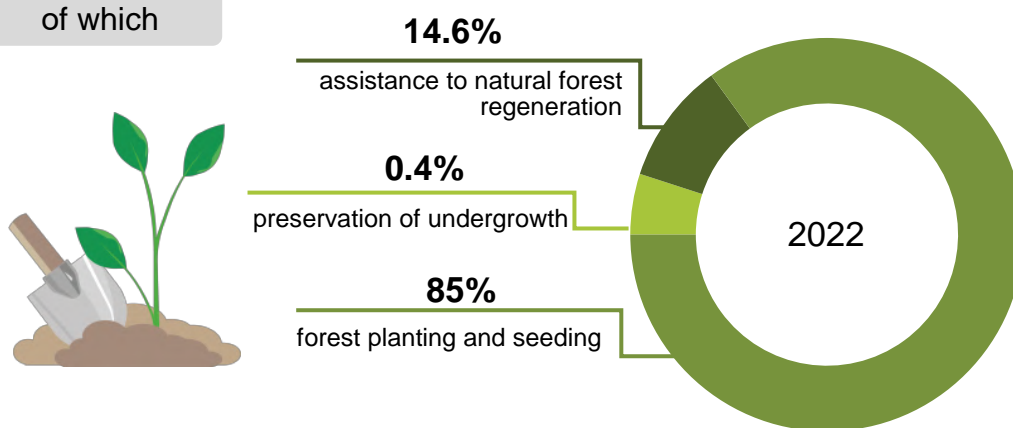
¹⁾ Data of the Ministry of Forestry of the Republic of Belarus.

6.3. Reforestation and afforestation

(hectares; as percent of total)

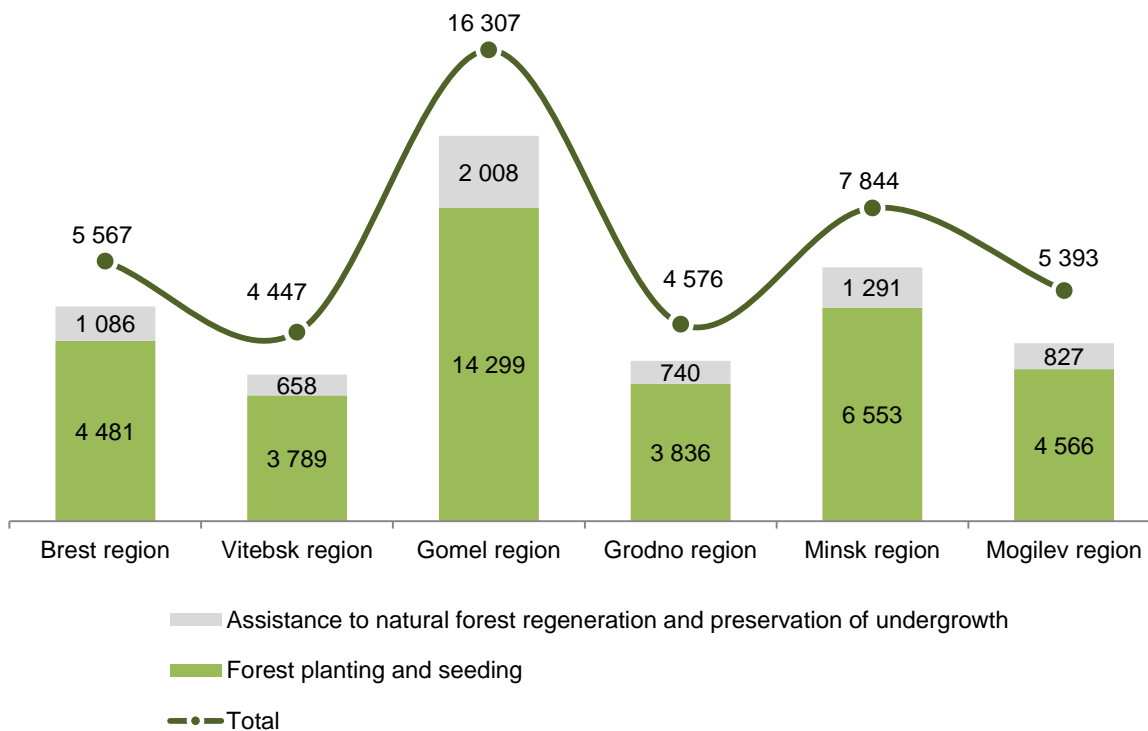


of which

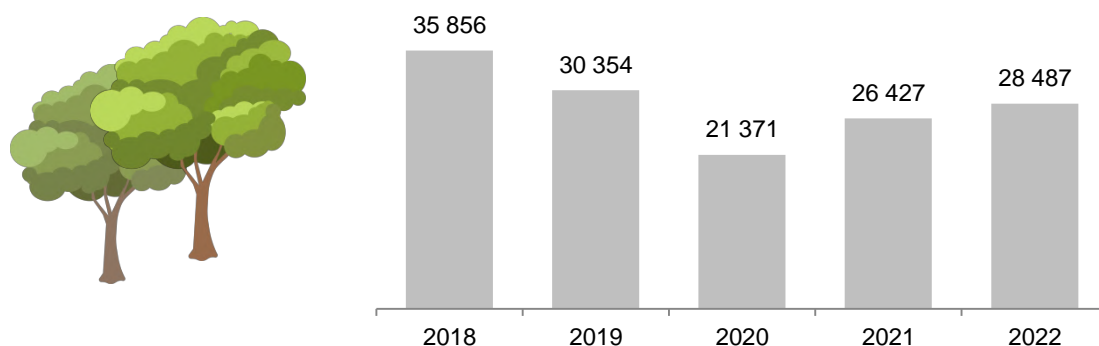


6.4. Reforestation and afforestation area by region in 2022

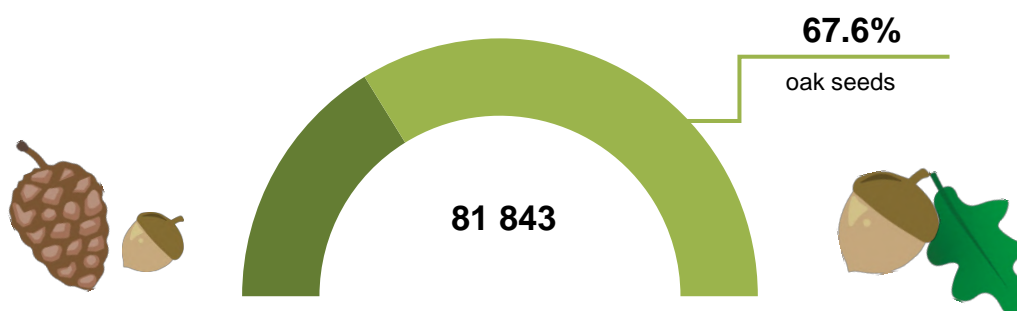
(hectares)



6.5. Introduction of forest plantations in the category of valuable forest plantations (hectares)

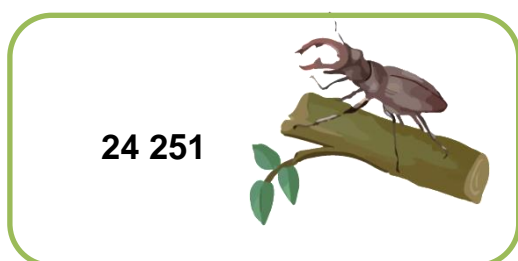


6.6. Seed harvesting of wood and shrub species in 2022 (kilogrammes; as percent of total)

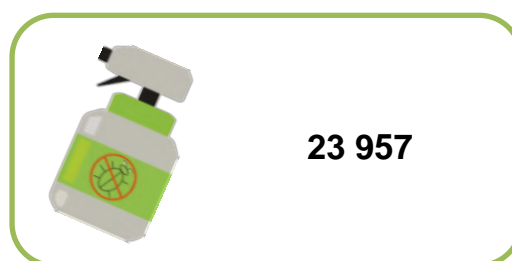


6.7. Forest pest and disease control in 2022¹⁾ (hectares)

biological control



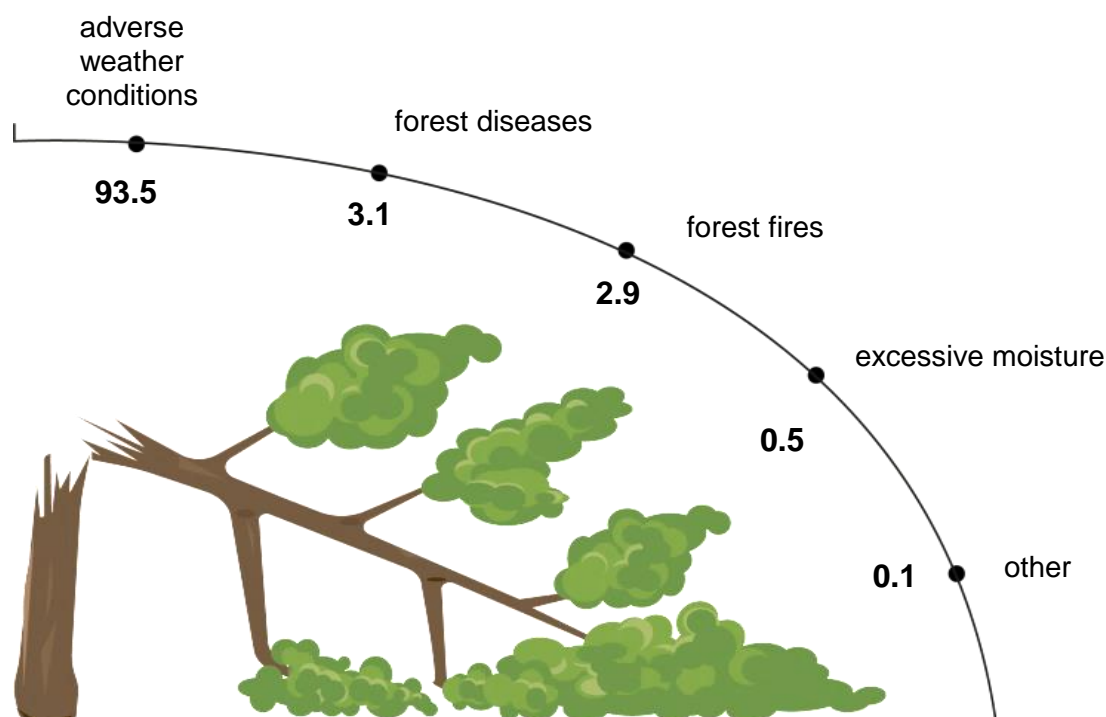
chemical control



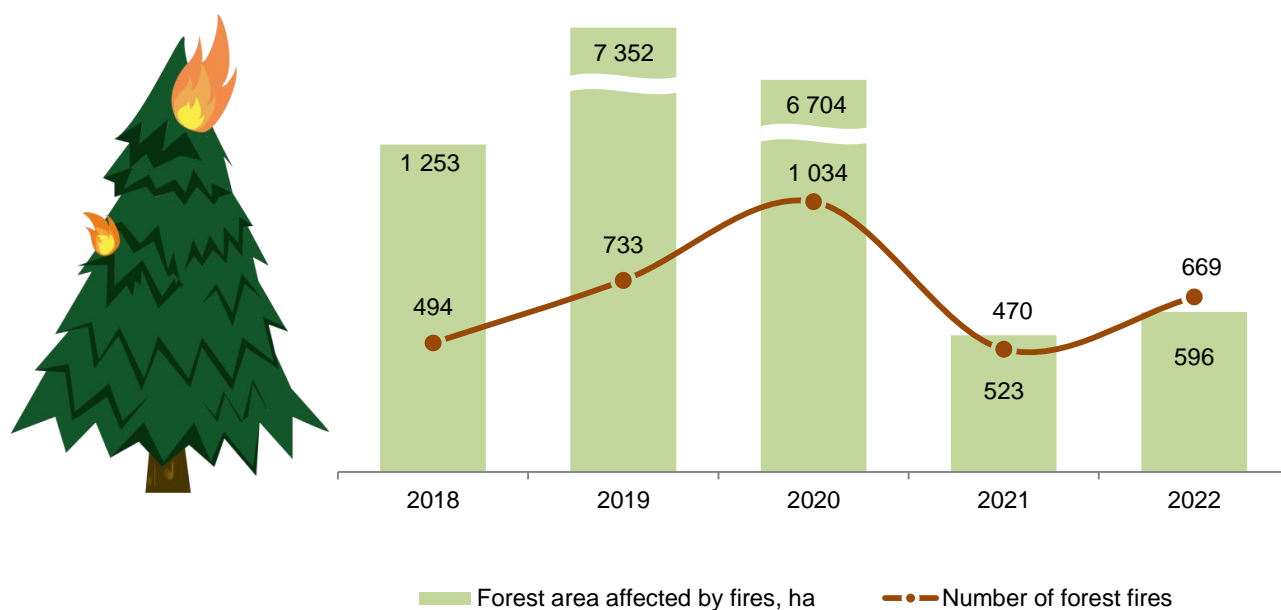
¹⁾ Data are provided in compliance with revised methodology of calculation of statistical indicators.

6.8. Structure of area of forest loss by cause in 2022

(as percent of total)



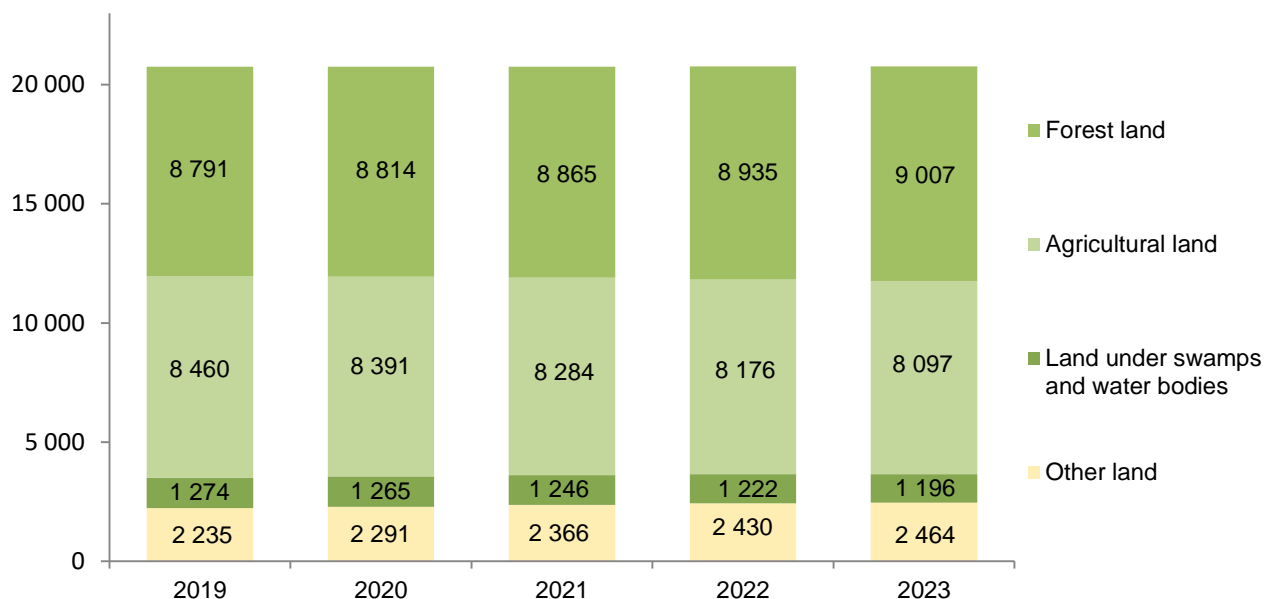
6.9. Number of forest fires and forest area affected by fires



7. PROTECTION OF LAND RESOURCES¹⁾

7.1. Land area

(as of January 1; thousand hectares)



7.2. Area of reclaimed land

(as of January 1; thousand hectares)

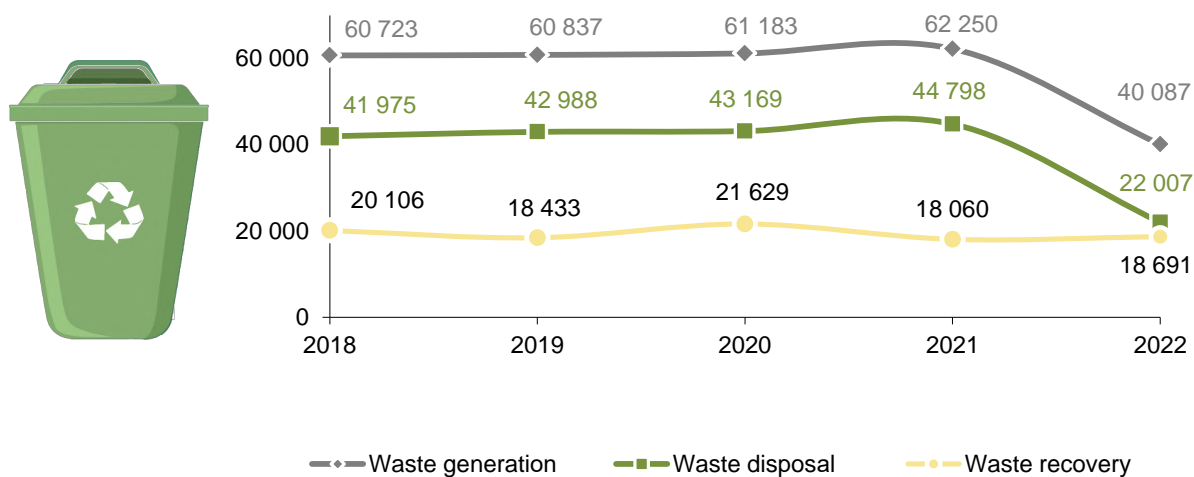
	2019	2020	2021	2022	2023
Total land reclaimed	3 448.5	3 453.7	3 454.8	3 337.5	3 263.6
of which:					
drained	3 418.2	3 423.4	3 424.5	3 308.8	3 237.4
irrigated	30.3	30.3	30.3	28.7	26.2
of which agricultural land	2 895.9	2 882.1	2 876.4	2 865.0	2 837.8
of which:					
drained	2 865.6	2 851.8	2 846.1	2 836.4	2 811.8
irrigated	30.3	30.3	30.3	28.6	26.0
Share of reclaimed land in total land area, %	16.6	16.6	16.6	16.1	15.7
of which:					
drained	16.5	16.5	16.5	15.9	15.6
irrigated	0.1	0.1	0.1	0.1	0.1

¹⁾ Data of the State Committee on Property of the Republic of Belarus.

8. WASTE

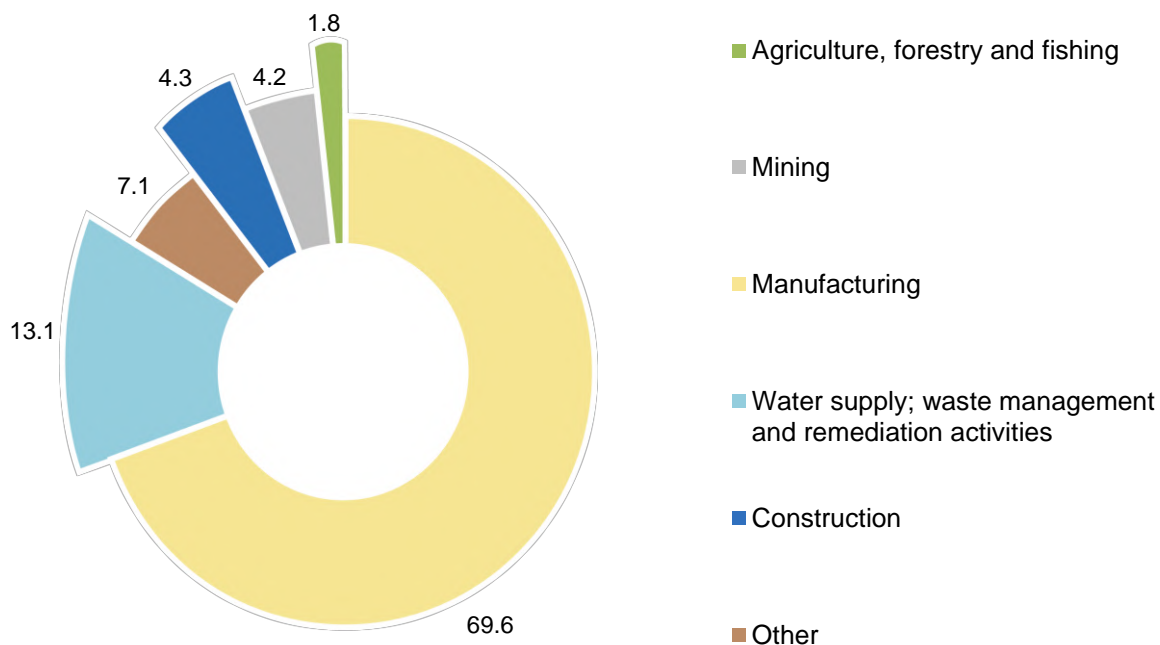
8.1. Dynamics of generation, recovery and disposal of industrial waste¹⁾

(thousand tonnes)



8.2. Structure of generation of industrial waste by economic activity in 2022¹⁾

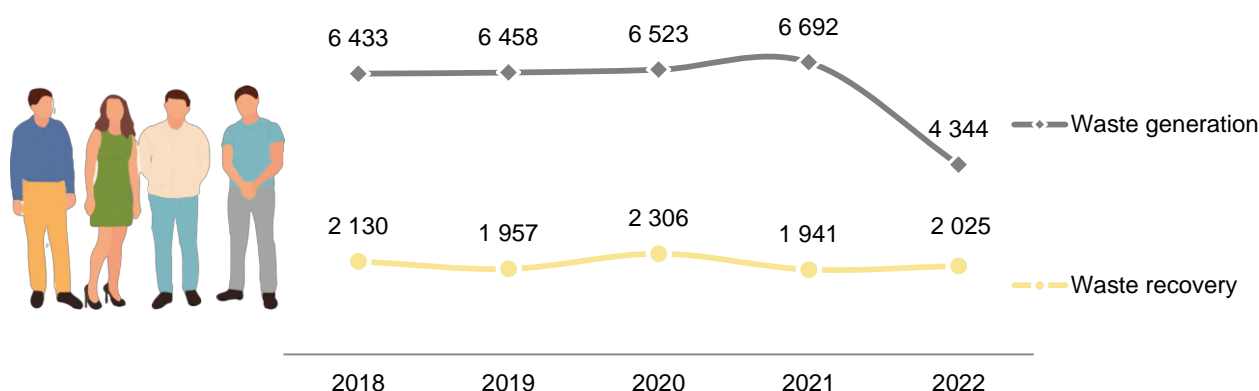
(as percent of total)



¹⁾ Data of the Ministry of Natural Resources and Environmental Protection of the Republic of Belarus.

8.3. Generation and recovery of industrial waste per capita

(kilogrammes)



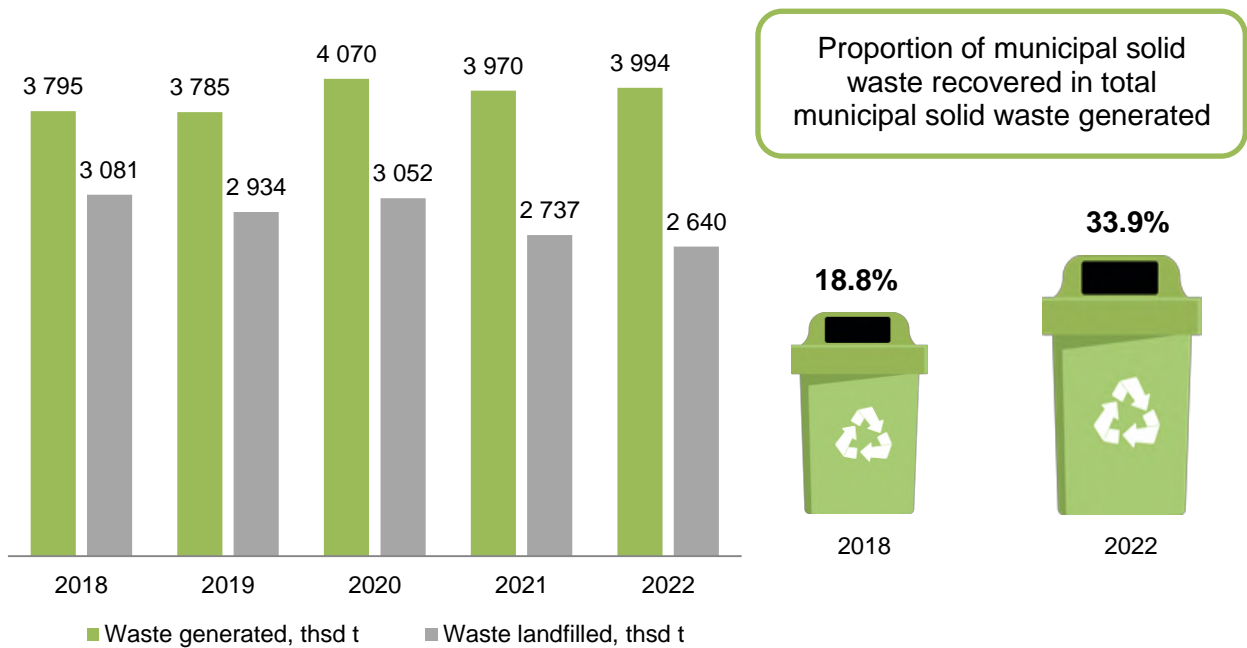
8.4. Industrial waste by hazard class in 2022¹⁾

(thousand tonnes)

	Genera- tion	Recovery	Disposal	Of which			
				storage facilities	burial sites	onsite storage	neutrali- sation
Total	40 086.7	18 690.8	22 006.8	20 392.3	690.0	819.8	104.7
of which:							
Non-hazardous	8 859.8	8 470.2	613.1	0.2	404.6	203.6	4.7
Class 1 (extremely hazardous)	18.4	14.6	4.4	0.1	0.1	1.4	2.7
Class 2 (high-hazard)	15.8	9.1	6.8	0.2	—	0.1	6.5
Class 3 (hazardous)	2 253.0	1 730.1	582.3	167.8	161.7	242.5	10.3
Class 4 (low-hazard)	28 939.7	8 466.9	20 800.2	20 224.0	123.7	372.2	80.3

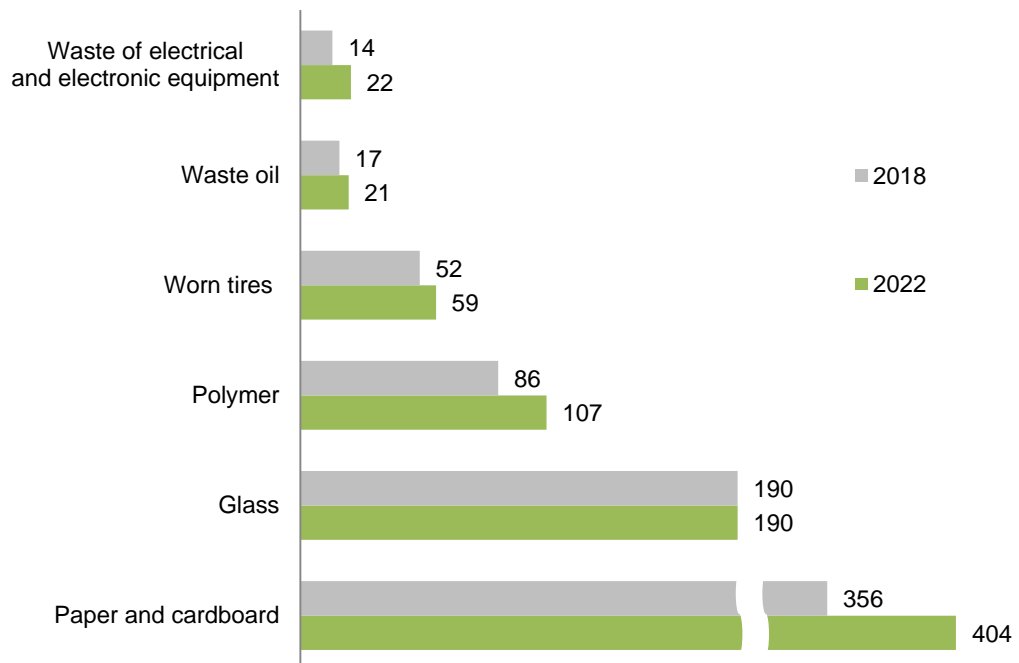
¹⁾ Data of the Ministry of Natural Resources and Environmental Protection of the Republic of Belarus.

8.5. Generation, recovery and landfilling of municipal solid waste¹⁾



8.6. Recovery of municipal solid waste (collection/procurement of secondary raw materials)¹⁾

(thousand tonnes)

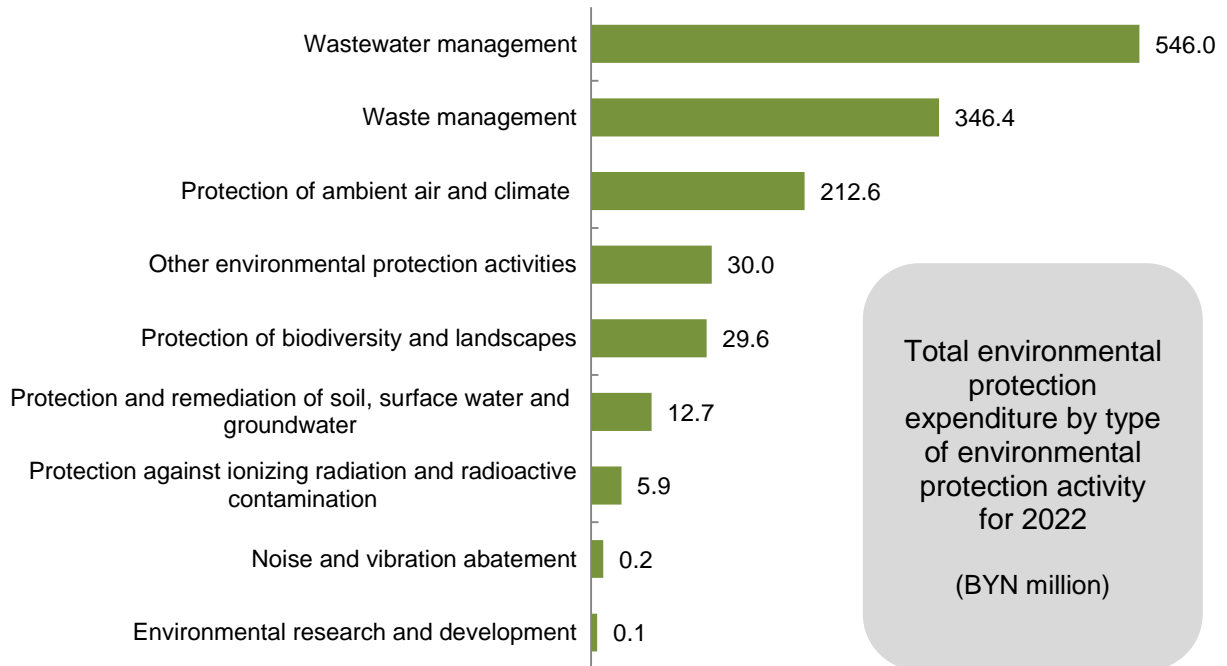
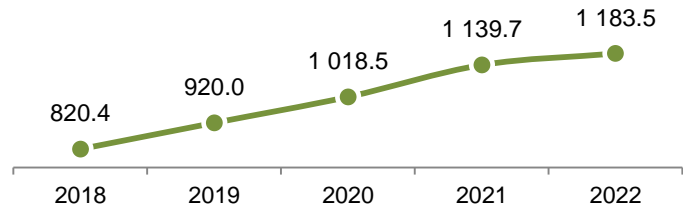


¹⁾ Data of the Ministry of Housing and Communal Services of the Republic of Belarus.

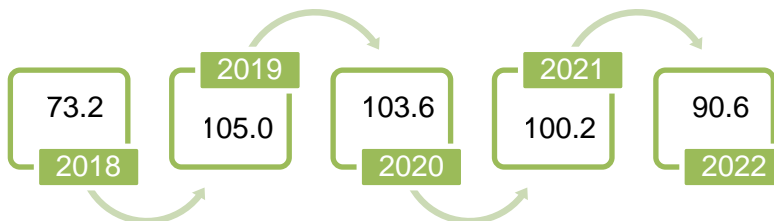
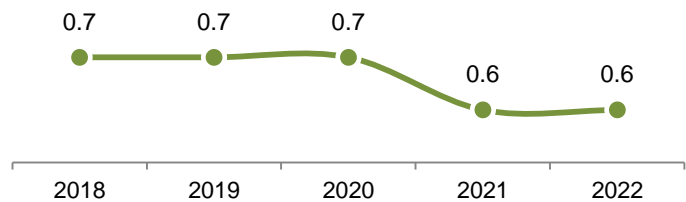
9. ENVIRONMENTAL PROTECTION EXPENDITURE

9.1. Total environmental protection expenditure¹⁾

Total environmental
protection expenditure
(BYN million)



Environmental protection
expenditure as percent
of GDP
(percent)

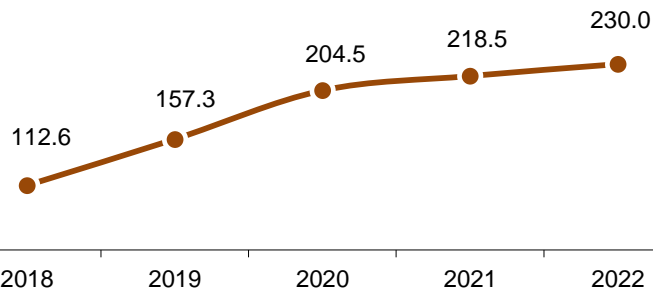
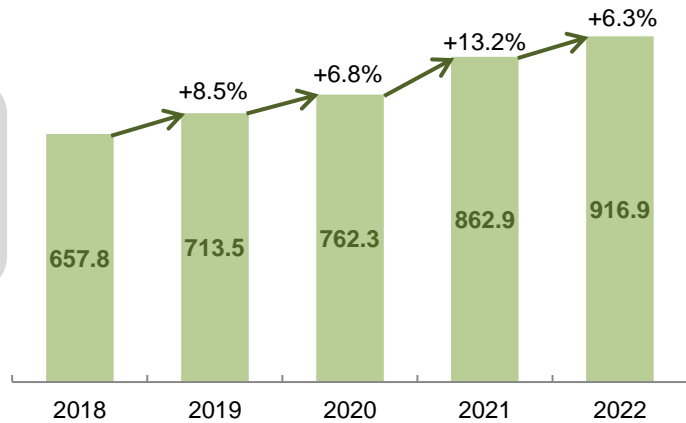


Total environmental
protection expenditure
at constant prices
(as percent of the previous year)

¹⁾ Data for 2022 do not include expenditure on applied research in the field of environmental protection and expenditure on government environmental protection bodies.

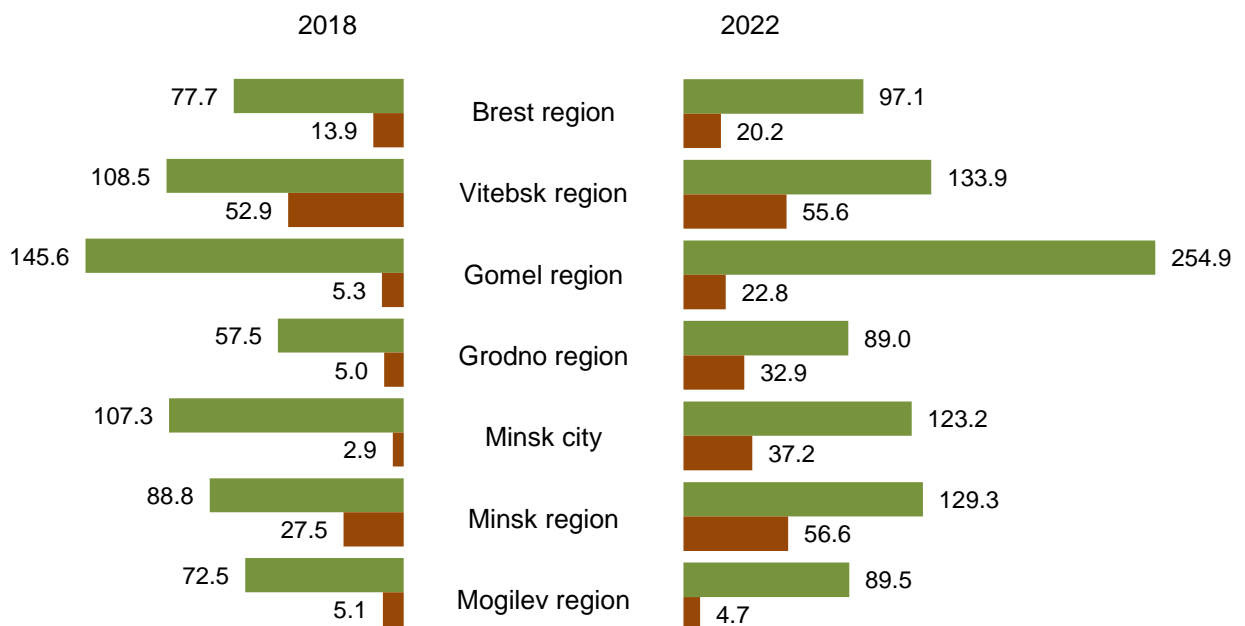
9.2. Current environmental protection expenditure and fixed capital investment in environmental protection

Current environmental protection expenditure
(BYN million)



Fixed capital investment in environmental protection
(BYN million)

Of which by regions and Minsk city



ENVIRONMENTAL PROTECTION IN THE REPUBLIC OF BELARUS

Short data book

Responsible for the issue:

E. A. Zdrok

Authorized for publishing: 31.07.2023 Format 60x84 1/16
Offset paper. Digital print
Printed sheets – 2,25. Conv. printed sheets – 2,10.
Print run: 3 copies. Order № 219

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