

Ninth Environment for Europe Ministerial Conference



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Interactive state-of-the-environment report of the Republic of Kazakhstan

Nickolai Denisov / Zoï Environment Network Altyn Balabayeva / RK Information-Analytical Centre for Environment Protection

SUSTAINABLE MONITORING INFRASTRUCTURE AND CONTINUOUS INNOVATION IN IMPLEMENTING A SHARED ENVIRONMENTAL INFORMATION SYSTEM

5 November 2022

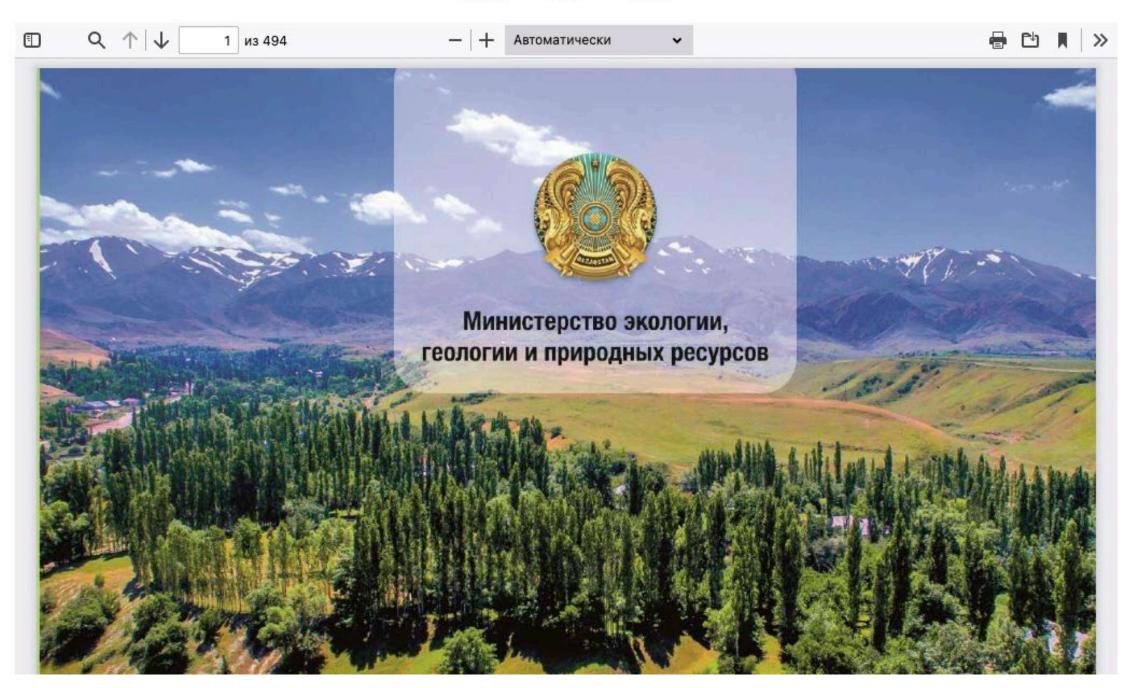








2019 2020



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ΚZ

RU

Air

Water

Land

Biodiversity

Agriculture

Energy

Waste

The high levels of nitrogen dioxide, carbon monoxide, sulfur dioxide, formaldehyde, hydrogen sulfide, suspended solids, phenol and ammonia encountered in population centers is associated with automobile traffic congestion, emissions by industrial enterprises

Transportation

Climate Change



1. Pavlodar

2. Karaganda

Primary airborne pollutants inc

- volatile organic compounds;

20.8%

- dust and ash (solids):

- sulfur dioxide;

- nitrogen oxides;

- carbon oxides;

- hydrogen sulfide.

- ammonia;

Ratios of solid, liquid and gaseous airborne pollutants released

in 2018-2019

5. East Kazakh

The top five regions

pollutant emissions

in 2018 and 2019:

In 2018.

efforts of industries

and private entrepreneurships captured and neutralized

93%

of all pollutants emitted; in 2019,

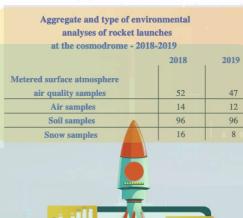
carbon capture and neutralization

as a percentage of pollutants

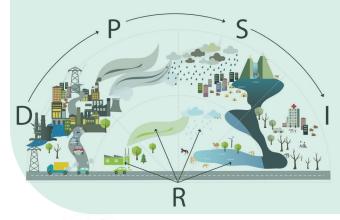
93.2%

emitted was

for volume of atmospheric



Soil samples	96	96
Snow samples	16	8
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	18×	2
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		17



ion and reforestation projects in 2019 covered 56,000 hectares, with plantings undertaken on over 29,000 he bulk of this work was conducted in the south of the country, where Saxaul plantings were conducted on a total area of 21,000 hectares.

53

2018

Reforestation and Afforestation

57

2017

Airborne Pollutant Emissions

2180

596

553

111

134

127

86

69

73

55

30

y 2015 y 2016 y 2017 y 2018 y 2019

2358

599

610

177

169

129

115

87

76

-

68

63

52

43

42

28

41

2447

588

709

172

158

131

124

85

76

30

66

52

50

48

26

56

43

33

2483

641

721

164

137

129

131

77

75

33

65

56

48

41

24

65

46

30

2272

593

542

167

155

129

99

95

78

72

66

52

50

43

30

62

- 39

2016

- by oblast - 2014-2019 (thousand tons)

2014

2258

604

610

109

130

104

85

72

60

88

38

52

31

44

Regior

Kazakhstan overall

Karaganda Oblast

Pavlodar Oblast

Kostanay Oblast

Turkestan Oblast

Jambyl Oblast

Almaty Oblast

Kyzylorda Oblast

Nur-Sultan

Shymkent

Almaty

ectares

60

2015

Mangystau Oblast

Akmola Oblast

East Kazakhstan Oblast

North-Kazakhstan Oblast

West Kazakhstan Oblast

South Kazakhstan Oblast

Atyrau Oblast

Aktobe Oblast

Kazakhstan is a participant in the Global Program for the Conservation of the Snow Leopard and Its Ecosystems, employing satellite monitored collars and camera stations in protected nature reserves in order to monitor the numbers and viability of this rare species. In 2019, camera stations managed to capture snow leopard activity in the territory of Kolsai Lakes National

As a part of the "S Farming in Kazakh L., Juglans regia

The "Informational its work, entering n

To both preserve a

The Kazakhstan Zoological Institute conducts research to identify threats to rate mammal species of mammals listed in the Republic of Kazakhstan Red List. The Institute has tagged around 5,000 rare and endangered birds from 45 species to study their migration patterns resulting in new data on the migratory resting locations of demoiselle crane s, among other benefits of the program. Working with the Alaqol State Nature Reserve, the institute engaged in extensive tagging and registration of bird colonies. More than 250 virus samples collected from migratory birds were able to be cataloged. In addition, s tudies for monitoring and taking counts of the wolf populations in western Kazakhstan were carried out, resulting in recommendations for regulating wolf populations.

the Irtysh region, the creation of a green zone at Nur-Sultan, and the Phyto-forestry reclamation of tablished in the Irtysh region, more than 4,000 hectares of new-growth forestation was introduced in of saxaul were planted on the drained Aral Sea basin over a period of two years.

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Air

Since 2015, emissions of airborne

steadily increasing. This may be trac-

economy and the preponderance of e

outdated, environmentally harmful

nearly 2.4 million tons of polluta

atmosphere, a number that increa

Incidents of high and extremely h

decreased significantly from 2018 t

three; despite this, overall emission

- Customised access formats
- Promotion through social media
- Targeted interviews
- Feature films
- Advertising on buses...











Key messages

Legal and institutional support

part of the Environmental Code, strong national anchors, international support

Logic and comparability

topics, consistent use of indicators and of the DPSIR chain

Accessibility

length, language(s), extensive visualisation, diverse access formats

Targeted communication

on- and off-line advertising, social media focus









