



Implementation of PRTRs project in the Republic of Kazakhstan



RSE on PVC "Information - Analytical Environmental Protection Center"
of the Ministry of Energy of the Republic of Kazakhstan

Tasks and main directions of implementation of the project

Legal

- Work on implementation of PRTRs in the Republic of Kazakhstan at the legislative level.
- Ratification of the Protocol on PRTRs

methodological support

- Review of existing methods of assessment and leading documents on PRTRs
- National leaders by assessment methods for key and priority sectors on emissions of pollutants

IT technology


- Development and deployment of the software
- Pilot project on delivery of reports on PRTRs online

Information access

- Development and realization of national Strategy for the public access to ecological information
- A series of training seminars.
- Maintenance of Internet resources and social networks

standardization of data

- Collecting and analysis of the existing materials given on standardization according to the reporting of chemicals, including POP



In the first direction at the legislative level in the Republic of Kazakhstan the following work is carried out:

01

separate article is introduced in the Ecological Code, on creation of the State register emissions and transfer of pollutants of April 8, 2016 No. 491-V

02

Rules of maintaining the State Register of emissions and transfers of pollutants (Order of the Minister of June 10, 2016 No. 241) are approved

03

The protocol on PRTRs is included in the current plan of conclusion of international treaties of the Republic of Kazakhstan for 2018 the Ministries of Foreign Affairs of RK

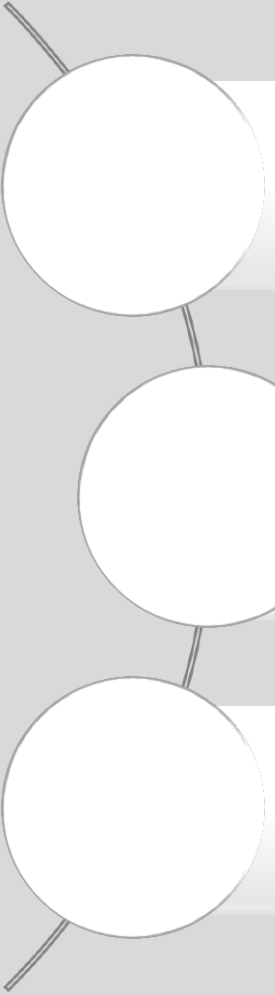
04

The bill of "Ratification of Protocol on PRTRs" is drafted. Works on his coordination are conducted.






Methodical providing for PRTRs implementation



Review of the existing methods of assessment and leading documents on PRTRs;

Recommendations about updating/change of the list of chemicals which are subject to reporting;

National leaders by assessment methods for key and priority sectors on emissions of pollutants



National leaders by assessment methods for key and priority sectors:

Purpose

to assist the enterprises in providing of reports for the register of emissions and transfer of pollutants of RK.

to promote better understanding of PRTRs tool regulating, in particular, concerning providing reliable and qualitative information about emissions of pollutants to environment.

Key and priority sectors

- **oil processing,**
- **power,**
- **mining,**
- **metallurgical and chemical branches**

Regional focus

- Instructions include recommendations about collecting, processing and providing data for the reporting under PRTRs, assessment of emissions of pollutants in air, sewage and assessment of volumes of education and placements of industrial and consumption waste;

Also each Instruction has included UNEP methodology by assessment (definition) of PCDD/PCDF in atmospheric air, sewage, the soil and waste.



IT -technology

website PRTRs prtr.kz



DEVELOPMENT AND DEPLOYMENT OF THE SOFTWARE

Purpose

Automation of functions on maintaining PRTRs

Aims:

1. Information support by timely and reliable data about state of environment
2. Accounting of data on the maximum allowable concentration of pollutants, their influence on health and environment, information on emissions and transfers of pollutants
3. Quick access to information resources, automated formation of the statistical reporting

Structure



Application server

- Portal kernel
- Main subsystems



Database server

- main storage of data
- DB control system



Private office of the user

- instrument of interaction
- thin client



IT - technology

Website PRTRs prtr.kz



PILOT PROJECT OF REPORTS DELIVERY ON PRTRs ONLINE

INFORMATION FLOW

Registration of natural recourse user

Registration data

E - signature

Creation of production sites

Add of site

Production describing

Spatial binding

Add of data

Automatic drawing borders

Filling of the report

Accounting period

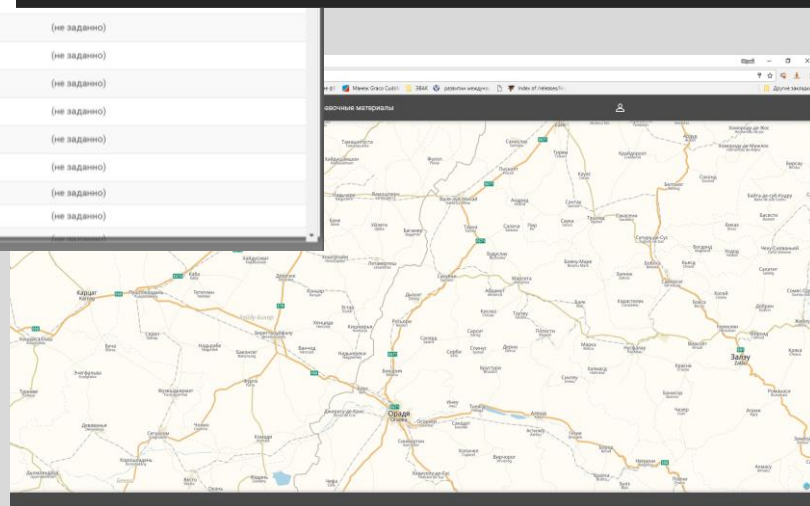
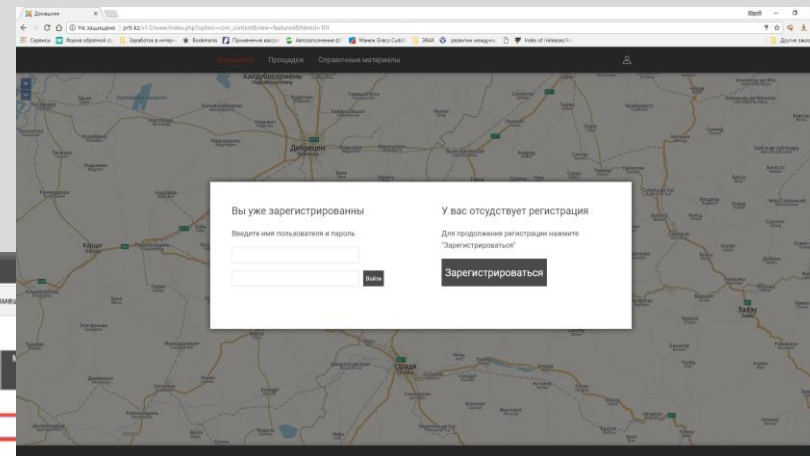
Data input

Analytics (in perspective)

Graphical tools

Information panels with indication of various indicators

FormReport1					
Атмосферный воздух					
Водные объекты					
Отходы производства и потребления					
Размещение объектов					
№	Номер КАС	Наименование загрязняющего вещества	Установленный норматив (тонн в год)	Фактические выбросы (тонн в год)	
61		Общее количество фосфора	(не задано)	(не задано)	
62	7440-50-2	(7440-50-2) Мышьяк и его соединения (в виде As)	2232	(не задано)	
63	7440-43-9	(7440-43-9) Кадмий и его соединения (в виде Cd)	(не задано)	(не задано)	
64	7440-47-3	(7440-47-3) Хром и его соединения (в виде Cr)	(не задано)	(не задано)	(не задано)
65	7440-50-8	(7440-50-8) Медь и ее соединения (в виде Cu)	(не задано)	(не задано)	(не задано)
66	7439-97-6	(7439-97-6) Ртуть и ее соединения (в виде Hg)	(не задано)	(не задано)	(не задано)
67	7440-02-0	(7440-02-0) Никель и его соединения (в виде Ni)	(не задано)	(не задано)	(не задано)
68	7439-92-1	(7439-92-1) Свинец и его соединения (в виде Pb)	(не задано)	(не задано)	(не задано)
69	7440-66-6	(7440-66-6) Цинк и его соединения (в виде Zn)	(не задано)	(не задано)	(не задано)
70	15972-60-8	(15972-60-8) Алабор	(не задано)	(не задано)	(не задано)
71	1912-24-9	(1912-24-9) Агравин	(не задано)	(не задано)	(не задано)

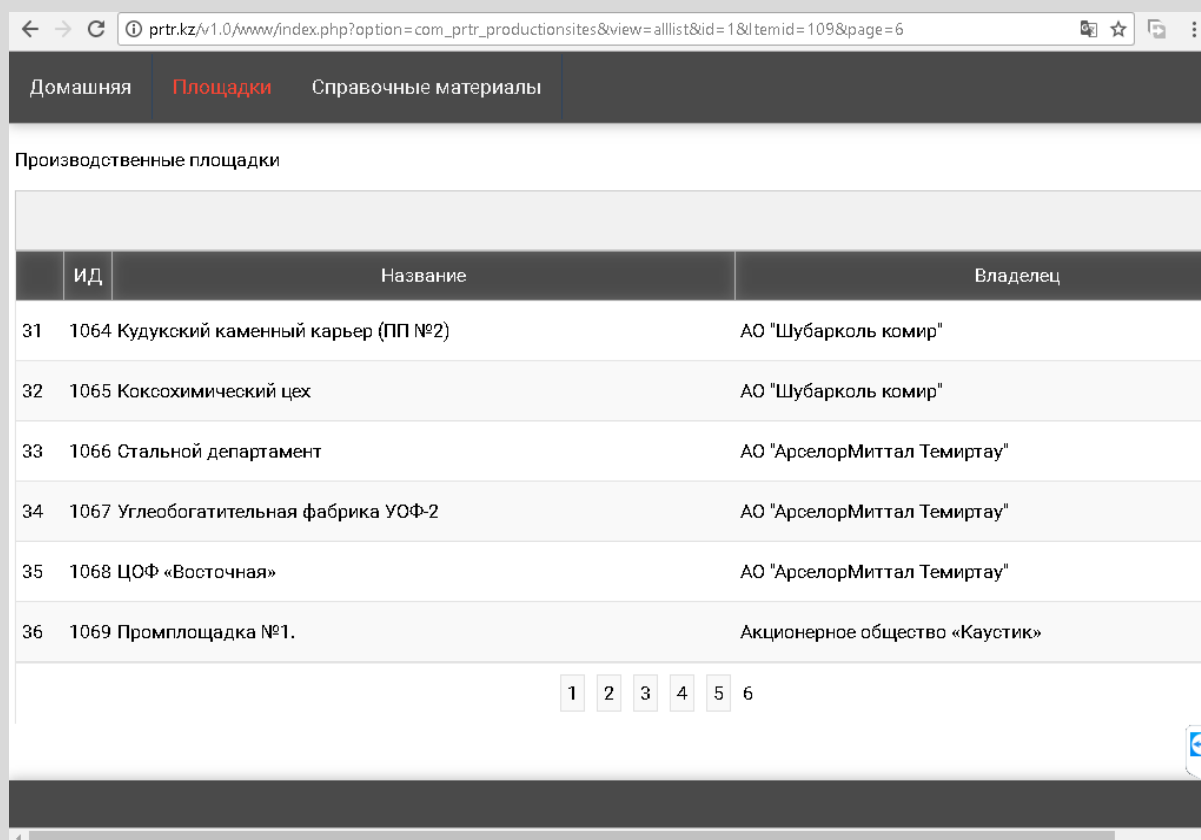
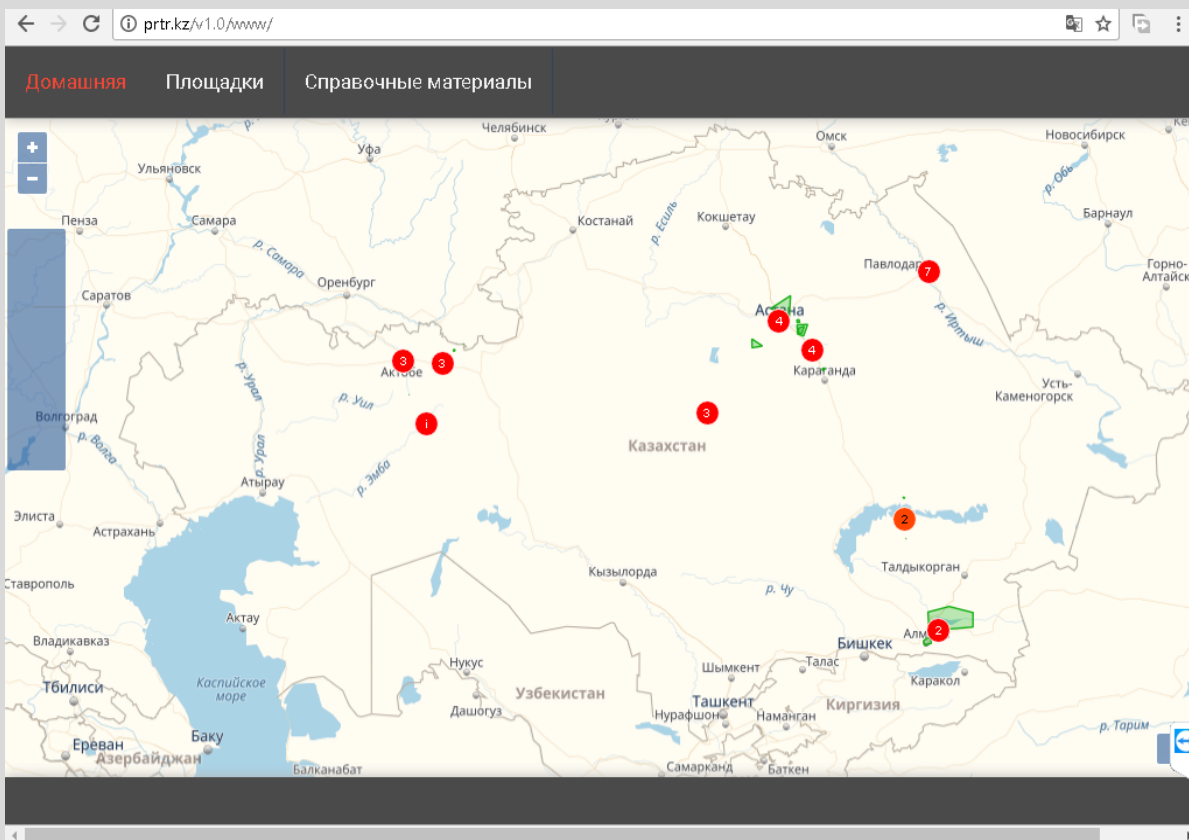




IT - technology



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Домашняя **Площадки** Справочные материалы

Площадки > Коксохимический цех

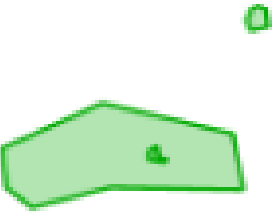
Общая информация | Список отчетов

Дата создания: 16 февраля 2018 г., 19:35:21

Статус: Работает

Описание технологического процесса:
Производство спецкокса путем пиролиза угля, его дробление, сортирование, временное складирование и отправка потребителям. Производство коксового угольного масла и смолы.

Наличие превышений: превышения отсутствуют



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нет

одные объекты | Атмосферный воздух | Отходы производства и потребления | Размещение серы | Платеж | Электронные варианты | История

№	Номер КАС	Наименование загрязняющего вещества	Установленный норматив (тонн в год)	Фактические выбросы (тонн в год)	Методы определения фактических выбросов (расчетный метод, инструментальные замеры)	История изменений
25		двуокиси кремния	318.471071	37.438858	расчетный метод	
26		Пыль неорганическая ниже 20% двуокиси кремния	0.14371	0.1022548	расчетный метод	
27		Бенз/а/пирен	0.000007	0.0000024	расчетный метод	
28		Серная кислота	0.000127	0.0000894	расчетный метод	
29		Сероводород	0.00003	0.0000207	расчетный метод	
30		Смесь предельных углеводородов C1-C5	0.321816	0.316	расчетный метод	
31		Смесь предельных углеводородов C6-C10	0.118952	0.0894762	расчетный метод	
32		Смесь предельных углеводородов C12-C19	1.770476	0.9301239	расчетный метод	
33		Углерод	0.335478	0.0785877	расчетный метод	
34		Формальдегид	0.071207	0.0210175	расчетный метод	
35		Фтористые газообразные соединения	0.00299	0.0026684	расчетный метод	
36		Этилбензол	0.000285	0.0002037	расчетный метод	
17		Диметилбензол	0.001379	0.0009996	расчетный метод	



National Strategy for ensuring access of public to ecological information and PRTRs

Purpose

Holding an effective campaign for increase in awareness on PRTRs, applying modern and relevant means of dissemination of ecological information, including the data of PRTRs obtained from the companies.

- It is sent for consideration by non-governmental organizations and Aarhus centers;
- It is posted on website <http://prtr.ecogofond.kz/>
- It is coordinated with Committee on project management
- UNITAR is approved.





Within Strategy:

Pages on social networks are created:

<https://www.facebook.com/prtr2016/?fref=ts>

<https://vk.com/public149303961>

<https://twitter.com/Prtr2016?lang=ru>

Materials are published in the state, Russian and English languages (press releases, news, a photo).





Informing the population through the official sites of akimats (placement of banners) and in printed media

Name of akimat	Link to website	Quantity of website visitors /year
Akimat Karaganda region	https://karaganda-region.gov.kz/rus/	176 000
Akimat Pavlodar region	http://pavlodar.gov.kz/	233 000
Akimat East Kazakhstan region	http://www.akimvko.gov.kz	189 000
Kostanay region	http://kostanay.gov.kz/	430 000
Mangistau region	http://mangystau.gov.kz	230 000
Atyrau region	http://atyrau.gov.kz/	152 000
Kyzylorda region	e-kyzylorda.gov.kz	170 000
West Kazakhstan region	http://bko.gov.kz	112 000

Name of edition	Frequency/Circulation
Egemen Kazakhstan	5 time in a week/ 206 000
Kazakhstan truth	Daily /100 000
Ecology of Kazakhstan	Quarterly / 1000
Ecology and industry of Kazakhstan (issued by the Kazakhstan Association of natural resources users for sustainable development (KANRU)	Quarterly/1500



Measures within Strategy for 2018

- Interview in Kazakh and Russian languages in "The Right to Know" program on "Radio of Astana" (participation of the National project coordinator, Director of the department of Public foundation of ecological information of IAC);
- Today in Kazakhstan, faculties of ecology are presented in the largest higher education institutions of the country (more than 12 higher education institutions). Work on development of cooperation directed to informing students, to participation in seminars and conferences, distribution of information booklets and brochures, holding poll is started.
- Holding seminars of professional development on the basis of RSE "IAC" and the Center "Sustainable Development Center". The class period devoted to PRTRs, realized Project and measures taken by Kazakhstan in this direction is provided in the program of each seminar.





Expected results

Implementation of the real Strategy will promote:

- to involvement of society in process of achievement of goals of PRTRs, formation of public ecological consciousness;
- to development of public opinion in questions of environmental protection influencing state of environment;
- to rendering help to public and ensuring orientation with her in gaining access to information, in simplification of her participation in decision-making process and in gaining access to justice on the questions concerning the environment;
- to improvement of knowledge of environmental problems; to improvement of quality of made decisions in the field of environmental protection and environmental management and process of their implementation;
- to stimulation of natural resource users to introduction of "green" technologies;
- for ecological education and increase in level of public awareness of environment problems.



Seminar "Implementation of the Protocol on PRTRs in Kazakhstan: the current situation and necessary measures for implementation"

- Seminar purpose: acquaintance of listeners with purposes and tasks of the Protocol on PRTRs, advance of PRTRs in Kazakhstan and also assessment of knowledge and requirements of interested parties for implementation of PRTRs
- **50 people** have taken part in work of a seminar;

Within the seminar participants have learned:

1. Information on the project;
2. Basic facts and requirements of the Protocol on Register of emissions and transfer of pollutants
3. The current situation on realization of PRTRs in Kazakhstan

Participants have undergone questioning, during which hot topics for development of the training module and holding seminars for interested parties have been revealed.





Development of training program and educational module

- Within the project the training program and educational module have been developed for training of representatives of industrial enterprises, public authorities, non-governmental organizations and media for the purpose of implementation and maintenance of work on PRTRs system in RK
- **Tasks:**
 - increase in level of knowledge of features of the Protocol on PRTRs;
 - assistance to drawing up State PRTRs;
 - assistance of ratification of the Protocol in the Republic of Kazakhstan;
 - ensuring participation of the public in decision-making, connected with PRTRs;
 - advance and maximum use of opportunities of electronic media.

The training program and educational module are developed **according to the legislation of the Republic of Kazakhstan taking into account the international legislation, norms and standards.**



Training seminars on PRTRs for interested parties

- A series of seminars "**International experience and the current Kazakhstan practice of implementation of PRTRs**" in **three cities** is made:
- Aktobe (on October 26, 2017)
- Astana (on October 30, 2017)
- Pavlodar (on November 2, 2017)
- **Purpose of seminars:** increase in capacity of interested parties concerning PRTRs and formation of offers for development of methodical ensuring introduction of PRTRs in Kazakhstan
- During the seminars **questions** have been considered:
- Session 1 – Purposes and tasks of the Protocol on PRTRs. Advance of PRTRs in Kazakhstan;
- Session 2 – Assessment of emissions and transfer of pollutants in atmospheric air;
- Session 3 – Assessment of transfer of pollutants in water objects and the soil;
- Session 4 – Access for the public of PRTRs data.



Participants of the seminar

- General participants – **154**;
- Target groups of participants - state and subordinated organizations, industrial enterprises and non-governmental organizations
- Industrial enterprises: oil processing, power, mining, metallurgical and chemical branches

Dividing of participants of the seminar by the targeted groups

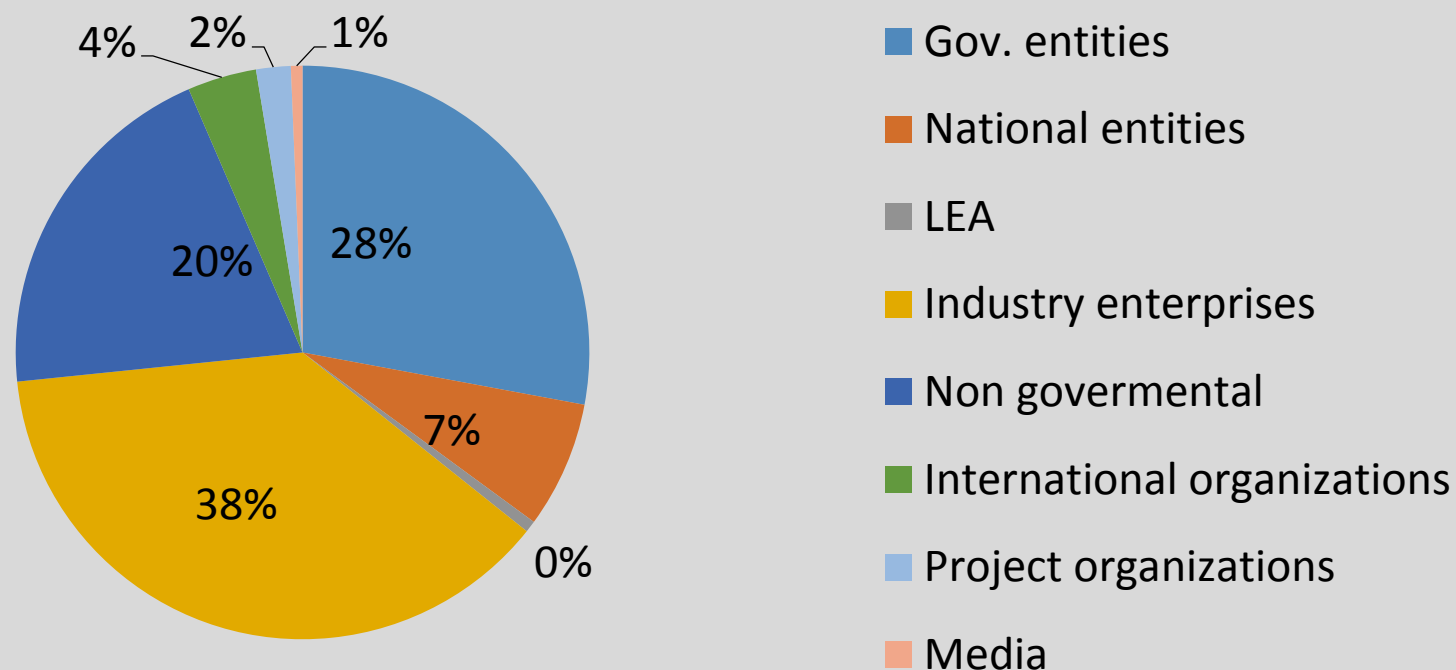




Photo reports from seminars



Aktobe – Participants with certificates



Astana – Opening of the seminar



Astana – Discussion of a practical task in groups



Pavlodar – Participants of the seminar





Seminar "Increase in capacity of the Aarhus centers for distribution and use of ecological information"

- The seminar purpose - discussion of activity of the Aarhus centers for dissemination of information of PRTRs and development of the Aarhus movement in Kazakhstan.
- 25 representatives of interested parties, including representatives of public authorities, Aarhus centers, international and non-governmental organizations have taken part

Within the seminar participants have discussed activity of the Aarhus centers for dissemination of PRTRs information and also other questions of development of the Aarhus movement of Kazakhstan.





Report on standardization of the existing materials

- Collecting and analysis of the existing materials given on standardization according to the reporting of chemicals, including POP, includes:
- Analysis of the operating PRTRs system in the EU
- Analysis of the operating PRTRs system in Ukraine
- Analysis of the introduced PRTRs system in Moldova
- Analysis of the introduced PRTRs system in Belarus
- Analysis of the introduced PRTRs system in Kazakhstan
- Comparative analysis of the PRTRs systems
- Recommendations about standardization for implementation in the scheme of reporting under PRTRs



Plans for 2018.

- To coordinate National leaders by assessment methods for key and priority sectors on emissions of pollutants with interested parties and UNITAR;
- Carrying out the second series of seminars on PRTRs;
- Introduction of software (pilot project);
- Ratification of Protocol on PRTRs;
- Realization of actions for the National Strategy of access to information;
- Carrying out the analysis of data standardization.

Advanced practice / lessons learned during implementation of national PRTRs

- Broad notification about the project, involvement of all interested parties in discussion of documents on PRTRs
- At the first stage integration of reporting under PRTRs with the operating system of ecological rationing and reporting
- Use of the international techniques for the absent techniques of assessment of issues (POPs, heavy metals)
- Involvement of the Aarhus Centers in implementation of Strategy of access for public to ecological information and PRTRs

Topical issues

- Use of threshold values for reporting of PRTRs
- Methods of assessment of pollutants in a soil
- Features of regulation of pollutants from industrial and consumption waste
- Estimating methods of emission of heavy metals and POP in air, water and soil
- Estimating methods of emission from diffusion (not dot) sources
- Involvement of population in a solution of the questions connected with environmental protection

THANKS
FOR ATTENTION!



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