Serbian PRTR - One window national reporting system

Nebojsa Redzic
Environmental Protection Agency
Information system NRIZ is one of the most important subsystems of the environmental information system in the Republic of Serbia, which is lead by Environmental Protection Agency (SEPA).

This information system is completely developed in the SEPA with financial support of the Kingdom of Norway, and also with high-expert help of the Norwegian company EMISOFT.

By using the software tools of this information system, data has being collected and processed, which is, after verification and analysis, delivered to interested parties. Data sources are primarily Serbian enterprises, but also public administration and local self-government authorities.
National register of pollution sources

GENERAL CHARACTERISTICS

- Created and follow the national legislation.
- Based on Microsoft platform.
- TEAMS SR framework was used for development, SQL server used for a database.
- TEAMS ensures modular improvements of IS.
- Bilingual interface – Serbian and English
- IS is web oriented and available on webpage of Serbian Environmental Protection Agency. http://www.sepa.gov.rs/
- Every 4 hours whole system is backed up automatically in the background and at the end of day backup manually.
The following software tools and systems operate within NRIZ:

- System for collecting, processing, verification and presentation of data submitted by environmental reporting entities
- Hazardous waste movement documents
- Register of Waste Management Permits
Hazardous waste movement documents

- An application for preparation of hazardous waste movement documents.
- All movements of hazardous waste need to be reported.
- Add delivery to all participants in moving hazardous waste for each individual creation.
- The application is a web operation and available on the website of the Environmental Protection Agency.

• **Register of Waste Management Permits**
  - Unique database of issued waste management permits.
  - The database has data on the permits issued by all institutions that issue these permits.
  - Portal for search and review of issued permits is available on the SEPA website
  - Problems in keeping a register of issued licenses

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National register of pollution sources

<table>
<thead>
<tr>
<th>МИНИСТАРСТВО</th>
<th>АП ВОЈВОДИНА</th>
<th>ЛОКАЛНЕ САМОУПРАВЕ</th>
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<tbody>
<tr>
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<td>Укупно</td>
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<td>Скупљање</td>
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**Ажурирано: 15.10.2019.**

[www.sepa.gov.rs](http://www.sepa.gov.rs)
PRTR register for 2018 covers 282 facilities which represent the most important pollution sources in Serbia, within the following fields:

1. Energy sector  
2. Production and processing of metals  
3. Mineral industry  
4. Chemical industry  
5. Waste and waste-water management  
6. Paper and wood production and processing  
7. Intensive livestock production and aquaculture  
8. Animal and vegetable products from the food and beverage sector  
9. Other activities
National register of pollution sources

Automatic form assignment system
National register of pollution sources

PRTR General Data Form
- General data about company
- Fuels
- Raw materials
- Products

PRTR / ELV Emissions to air
- Detailed technical data about emissions stacks
- Working conditions
- Measurements
- Annual emissions reporting

PRTR / ELV Emissions to water
- Detailed technical data about emissions outlets
- Working conditions
- Measurements
- Annual emissions reporting

PRTR / GIO1/2/3/4/5/KOM1 Waste
- Detailed data about waste
- Measurements
- Annual emissions reporting
National register of pollution sources

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- KOM 1
- PTP 2
- AAO 1
- Analysis reporting
- Public Reports
- Other reports

Table: "Podaci o režimu rada u postrojenju"

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<tr>
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<td>sezonski</td>
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<td>Početak sezone (mesece)</td>
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<td>Kraj sezone (mesece)</td>
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Table: "Podaci o zaposlenima u postrojenju"

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Automatic system for E-PRTR reporting
National register of pollution sources

Environmental Taxation
- Polluter pays principle
- Special waste streams tax
Based on the obtained data, dozens of analytical reports that are submitted to interested parties as requested was created.
Reporting

The procedure of reporting i.e. data delivery is reduced to the simple filling of electronic forms. After entering, data is stored in the database. The system has the history of the records. Each data change is recorded, and in that way significantly simplifies the tracking of data changes.

During the reporting period, according to the defined methodology, system administrators approve data submitted and then lock the reports. Data in locked reports can no longer be changed.

Data submitted is sent, after analytical processing, to the interested parties.
National register of pollution sources

QA/QC

System logical controls includes:
- System conditionally mandatory fields
- Logical controls of values

The conditionally mandatory fields are marked with two asterisks (**) in the system. These fields are conditionally mandatory and the fact that they are mandatory depends on the values entered in other fields on the electronic form.

In case of user’s mistake, the system will display the information in the error dialog box. In case of such error, the user cannot save data to electronic form until the proper corrections are made.
Monitors the delivery system of pollution sources

National register of pollution sources

Monitoring of data delivery system
Portal of publicly available data and reports

National register of pollution sources

www.sepa.gov.rs
Planned improvements

- NRIZ is continuously expanding in order to integrate all reporting segments into one system.
- A new version of TEAMS SR is expected early next year, replacing the Silverlight component with HTML5, providing broader access and eliminating existing restrictions.
- Continuous improvement in accordance with the adopted legislation.
- IED reporting, EU registers, VOC register, F gasses, ELV for wastewater, PCB, WEEE reporting, ETS, etc.
Thank you very much for your attention!

Nebojsa Redzic
Phone: +381-11-6356-790
Mobile: +381-64-6406-348
Email: nebojsa.redzic@sepa.gov.rs