



***Environmental protection  
in 2018***

# Environmental protection jobs and activities

**HIPP Environmental Protection Department's** activities include :

- work organization, coordination and participation in supervising of all HIPP activities related to the environmental protection with the aim of keeping the impact of the process on the environment to a minimum
- following and applying all legal regulations in the field of environmental protection.

**Environmental protection is part of of HIP-Petrohemija's development strategy and is dedicated to sustainable improvement of environmental and working conditions.**

## HIPP Monitoring system

**HIPP Monitoring system** covers the following entities of environment:

- air quality/ emission of pollutants into air
- water quality / emission of pollutants into water
- soil quality/ emission of pollutants into groundwater

Monitoring is based on repeated measuring and observations of adequate frequency and in accordance with legal regulations and by-laws in the field of environmental protection as well as internal procedures. Collected information is used for supervising the regularity of the working process, verifying compliance with ELV and making decisions on improvement of the production process.

## The most important Environmental Protection Laws

- The Environmental Protection Act
- The Clean Water Act
- The Soil Protection Act
- The Clean Air Act
- The Law on Waste Management
- The Packaging and Packaging Waste Directive
- The Chemicals Act
- The Integrated Pollution Prevention and Control Directive

## Identification of environmental aspects

On a yearly basis, each of the organizational units in "HIP-Petrohemija" a.d. Pančevo reviews:

- identified environmental aspects for all operations, products and services
- operation control plan for identified environmental aspects
- impact analysis of all aspects
- identified aspects impact assessment and makes a **reviewed** Register of significant impacts on the environment

Environmental Management System in accordance with **ISO 14001 standard** enables the Environmental Protection Department to efficiently carry out its activities for accomplishing goals in the field of environment protection, to carry out measuring plans in due time and in accordance with laws and measures given by republic and provincial inspectors.

# Monitoring of air, water and soil pollutants

## Wastewater monitoring

- Regular wastewater monitoring has been completed (6 campaigns); the parameters were followed in HIPP's wastewater at the Wastewater Factory outlet, in Synthetic Rubber Plant wastewater (4 campaigns) and Petroplast factory wastewater. (3 campaigns).
- No exceeded values of parameters have been registered in the wastewaters at the place of **discharge into the recipient waters – The Danube and Tisa rivers**

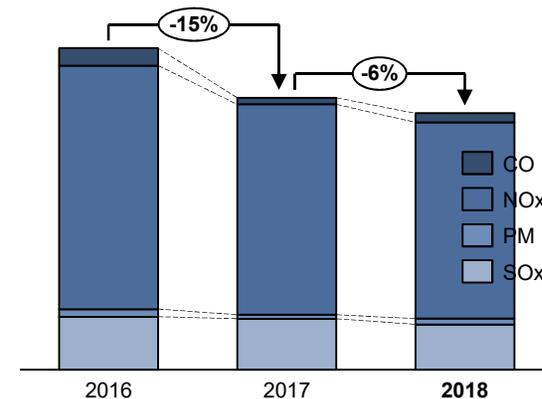
## Groundwater and soil monitoring

- Groundwater was tested at 19 measuring sites in HIPP and 5 in SRP. All measured parameters are below ELV
- For year 2019 a **report on the status of land and groundwater** at the locations of Pancevo and Elemir is planned.

## Monitoring of air pollutants emissions

- In 2018 two campaigns were carried out to measure pollutants into the air from stationed sources in accordance with legal regulations.
- All measured parameters (carbon dioxide, nitrogen oxides, powdered substances and sulfur oxides) are below the prescribed limits.
- The annual emission of air pollutants is 6% lower than in the previous year..

## Reduction of air pollutants emission (%)



## Non-hazardous waste amount

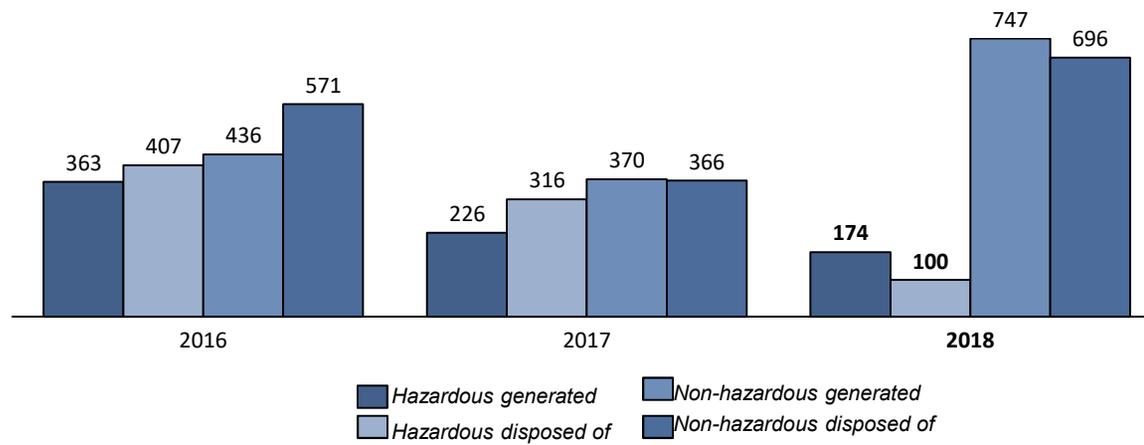
- In 2018 a total of **747 t** of non-hazardous waste was generated. The production of waste was increased due to the overhaul activities, intensified maintenance and replacement of worn out equipment and insulation.
- The amount of non-hazardous waste disposed of in 2018 was **696 t**.

## Hazardous waste amount

- In 2018 a total of **174 t** of hazardous waste was generated.
- In 2018 the amount of **100 t** of hazardous waste was disposed of.

- For the waste that is regularly generated, annual contracts for periodic and successive disposal have been signed, while for the waste that is generated during the overhaul activities one-time disposal contracts have been signed. The introduction of such waste management system has reduced the daily quantities of stored waste at HIPP sites.
- In 2018 protocols were signed with suppliers to take over, fee of charge, contaminated oil packaging which resulted in further improvements in packaging waste management system.

## Hazardous and non-hazardous waste management (t)



### Negotiation Group 27

- In order to prepare negotiating position for **Chapter 27 – Environment and Climate Change** HIP, in collaboration with the Ministry of Environmental Protection and their consultants, has drafted a **Program of Measures** to adapt the operation of the existing plant to the conditions prescribed by the Law on Integrated Pollution Prevention and Control.
- The program of measures include an overview of the projects that are to be implemented by HIPP by 2025 in order to align its processes with binding and **best available technologies – BAT**. Should HIPP prove to be unable to carry out all the prescribed measures by the opening of the Chapter, it will be necessary that Negotiation Group of the Chapter 27 negotiate the transitional period on behalf of HIPP.

### Integrated Permit (IPPC)

- In order to supplement the Request for an IPPC Permit, a **Safety Report** and a **Plan of Accident Protection** were drafted and adopted.
- **The Action Plans** have been updated with the applicable BREF documents.
- Business **decisions** were made to stop the production in VCM, PVC i Electrolysis plants.

### Communication with competent state authorities

#### Reporting to competent state authorities within time limits prescribed by law:

- National/Local registers of pollution sources
  - Report on packaging and packaging waste management
  - Product placement report (special waste flows) by type on RS market
  - Registering of chemicals in the Register of Chemicals for chemicals imported by HIPP and placed in RS market
  - Keeping record of the quantities of biocidal products placed on the market.
  - Annual reports on environment monitoring by authorized laboratories.
  - Balance of air pollutants
  - Report on production of DOS – discrete organic substances
  - Report on treated and discharged water and operation of wastewater treatment plant
- At the end of 2018 a **meeting** was held with the **Ministry of Environmental Protection representatives** on Disposal of historical waste by the funds of the Republic of Serbia when information on types and quantities of the historical waste in HIPP were presented and the requested documentation submitted.