



**Republic of Serbia**  
**Ministry of Mining and Energy**

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## **Monitoring of the Quality of Petroleum Products in the Republic of Serbia**

- Legal framework
- Institutional framework
- FQMS



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# **Monitoring of the Quality of Petroleum Products in the Republic of Serbia**

## **Legal framework**

- Law on Energy ("Official Gazette of the RS", no. 145/14, 40/21 and 62/23)
- Decree on Monitoring the Quality of Petroleum Products ("Official Gazette of RS", no. 97/15, 5/17, 119/17, 102/18, 8/23 and 60/23)
- Rulebook on the Content and Method of Implementation of the Annual Program for Monitoring the Quality of Petroleum Products and Biofuels for the Year 2023 ("Official Gazette of the RS", No. 25/23)



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## **Monitoring of the Quality of Petroleum Products in the Republic of Serbia**

### **Institutional framework**

- Ministry of Mining and Energy - adoption of regulations in the field of monitoring the quality of petroleum products
- Ministry of the Interior and Foreign Trade, market inspection - inspection supervision
- The person who monitors the quality of petroleum products - chosen at a public tender, the regulation prescribes the conditions that must be met by the person conducting the monitoring

The fuel monitoring system was introduced in 2015



## Monitoring of the Quality of Petroleum Products in the Republic of Serbia

### FQMS – Two parts

1. according to standard EN 14274
  - unleaded petrol, diesel (The Fuel Quality Directive 98/70 / EC)
2. national part - requirements go beyond the requirements of the standard EN 14274
  - sampling of unleaded petrol and diesel fuel at fuel terminals, storages and producers
  - sulfur content in heavy fuel oil and gas oil (Directive (EU) 2016/802)



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## **Monitoring of the Quality of Petroleum Products in the Republic of Serbia**

### **FQMS - Standard EN 14274**

Republic of Serbia

- small country (<15 million tons)
- 4 statistical regions
- model B (non macro region)



## Monitoring of the Quality of Petroleum Products in the Republic of Serbia

### FQMS - Number of samples

- about 3000 samples in a calendar year
  - determined by the Annual Monitoring Program
  - determined by regions, types and grades of petroleum products
- Inspection of quality
  - petrol - according to standard SRPS EN 228
  - diesel - according to standard SRPS EN 590

Fuel quality monitoring is running twice a year for petrol and diesel fuel, and all year for heavy fuel oil and gas oil.



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## **Monitoring of the Quality of Petroleum Products in the Republic of Serbia**

### **FQMS – Sampling**

- locations - selected from the register kept by the Ministry in charge of trade (random sampling method);
- market inspectors are responsible for sampling of petroleum products and labeling (coding) sample
  - In the presence of market inspection, the person conducting the monitoring applies sampling - must be competent (accredited) for sampling of petroleum products





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## Monitoring of the Quality of Petroleum Products in the Republic of Serbia

### FQMS – compliance / non-compliance

- Coded samples are sent to a competent testing laboratory (accredited in accordance with standard EN ISO / IEC 17025)
- Person conducting monitoring (accredited in accordance with standard ISO / IEC 17020), issue an inspection report (on the basis of the laboratory test report) - determines the compliance / non-compliance
- Person conducting monitoring
  - within maximum 24 hours from learning about an established deviation of quality parameters, notify thereof the ministry in charge of energy and the ministry in charge of trade
  - report on testing the quality parameters of petroleum products and biofuels issued by the laboratory is delivered along with the notification



## Monitoring of the Quality of Petroleum Products in the Republic of Serbia

### FQMS – reporting

- Person conducting monitoring
  - **summary report** on performed quality monitoring of petroleum products and biofuels to the ministry in charge of the energy until the 31st March of the current year for the previous calendar year in the manner and form defined in the Annual Monitoring Program
- Ministry in charge of the energy sector
  - **final annual report** on performed quality monitoring
  - submit the final annual report to international organizations in compliance with international commitments undertaken by the Republic of Serbia, until 31th August of the current year for the previous calendar year



## Monitoring of the Quality of Petroleum Products in the Republic of Serbia

### FQMS – Annual Monitoring Program 2023

| Region                      | Number of samples of unleaded motor gasoline |        |         |        |        |         | Number of gas oil samples |             |
|-----------------------------|--|--------|---------|--------|--------|---------|---------------------------|-------------|
|                             | Period of the year                           |        |         |        |        |         | Period of the year        |             |
|                             | Winter                                       |        |         | Summer |        |         | Winter                    | Summer      |
|                             | BMB 95                                       | BMB 98 | BMB 100 | BMB 95 | BMB 98 | BMB 100 | EURO DIESEL               | EURO DIESEL |
| Belgrade                    | 136  | 0      | 19      | 136    | 0      | 19      | 146                       | 146         |
| Vojvodina                   | 162  | 0      | 22      | 162    | 0      | 22      | 193                       | 193         |
| Sumadija and Western Serbia | 158  | 0      | 22      | 158    | 0      | 22      | 184                       | 184         |
| Southern and Eastern Serbia | 114  | 0      | 16      | 114    | 0      | 16      | 127                       | 127         |
| Number of samples by grade  | 570  | 0      | 79      | 570    | 0      | 79      | 650                       | 650         |
| Number of samples by type   | 1298   |        |         |        |        |         | 1300                      |             |



## Monitoring of the Quality of Petroleum Products in the Republic of Serbia

### FQMS – Annual Monitoring Program 2023 (other energy facilities)

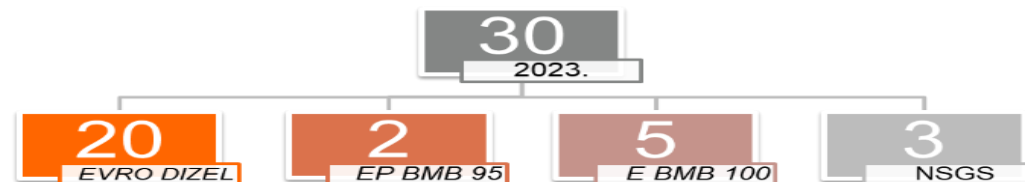
| Types of petroleum products | Grade                           | Number of samples by grade | Number of samples by type |
|-----------------------------|---------------------------------|----------------------------|---------------------------|
| Unleaded motor gasoline     | EURO PREMIUM BMB 95             | 70                         | 105                       |
|                             | EURO BMB 98                     | 5                          |                           |
|                             | EURO BMB 100                    | 30                         |                           |
| Gas oil                     | EURO DIESEL                     | 200                        | 210                       |
|                             | GAS OIL EXTRA LIGHT EURO EL     | 10                         |                           |
| Fuel oil                    | MEDIUM EURO S                   | 1                          | 21                        |
|                             | MEDIUM S                        | 15                         |                           |
|                             | LOW SULPHUR FUEL –SPECIAL NSG-S | 5                          |                           |



## Monitoring of the Quality of Petroleum Products in the Republic of Serbia

### FQMS - Results 2023 (until July 2023)

- A total of 1,764 samples of petrol, diesel and heavy fuel oil were sampled and examined in 655 facilities
- It was determined that 30 samples did not comply with the regulation on technical and other requirements for liquid fuels of petroleum origin, and after applying the rules defined by the SRPS EN ISO 4259 standard or 1.7% of the total number of samples





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**Thank you for your attention!**

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