



# City Administration for Environmental Protection



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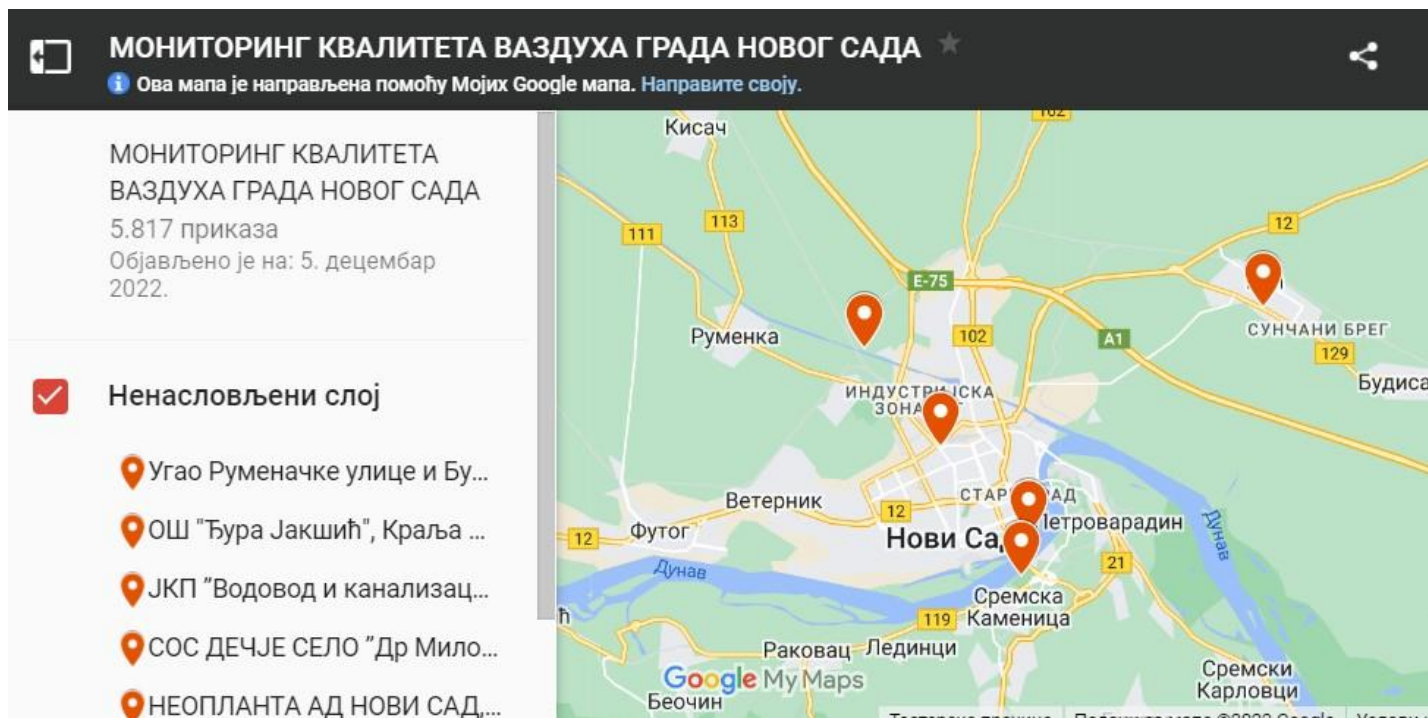
## The City of Novi Sad

- Educational, economic, cultural and administrative center of the Autonomous Province of Vojvodina, the most productive agricultural region in Serbia
- Total population is 368.967 inhabitants, 306.702 being urban, and it is the fastest growing local selfgovernment in Serbia
- Among the first cities outside the EU to be designated European Capital of Culture (2022)
- European Youth Capital (2019)
- European Green Capital –next goal

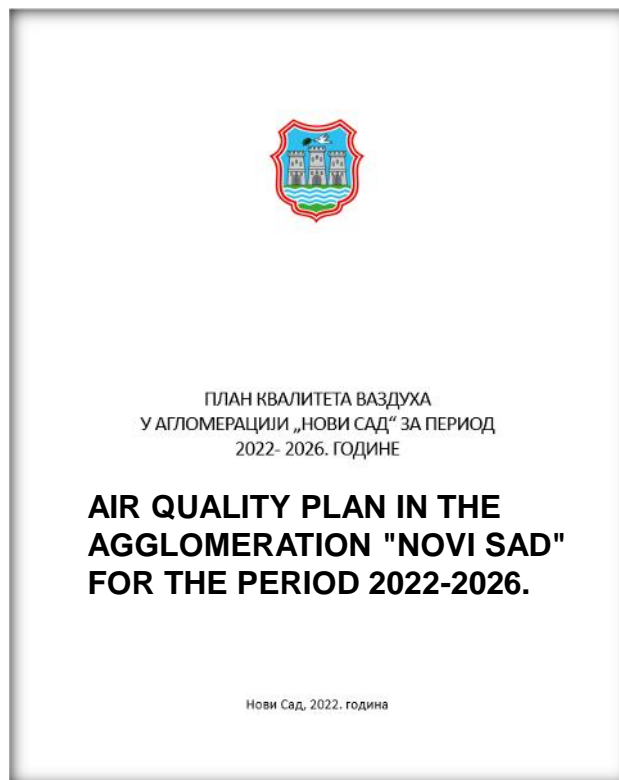


The responsibilities of the City Administration for Environmental Protection are determined by the Decision on City Administrations of the City of Novi Sad.

- Continuous control and systematic monitoring of the state of the environment through authorized professional organizations.
- Informing and publishing data on the state and quality of the environment - [www.environovisad.rs](http://www.environovisad.rs)







- Preparation, adoption and implementation of programs and plans in the field of environmental protection

## AIR QUALITY PLAN IN THE AGGLOMERATION "NOVI SAD" FOR THE PERIOD 2022-2026.

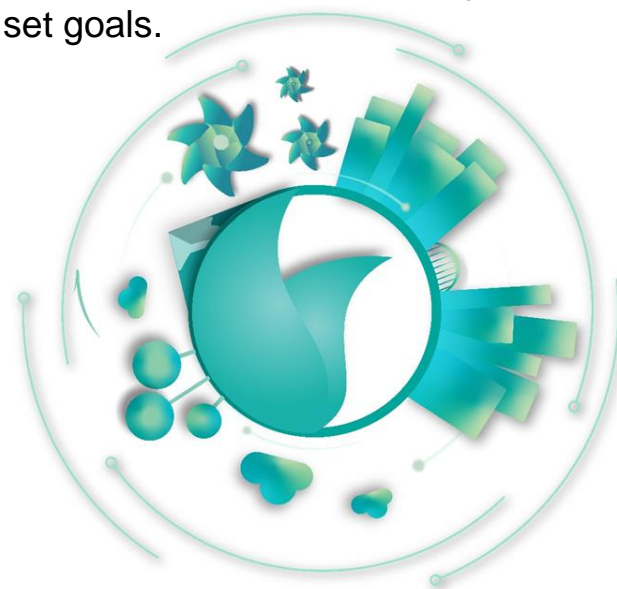
The air quality plan of a certain area is a **basic strategic document that defines air quality management at the local level**, for a certain period of time.

It **determines specific measures that must be taken in order to reduce air pollution**, as well as measures to protect against further pollution, with the primary goal of protecting the negative impact of air on the population.

It **provides decision-makers with foundations** and gives guidelines through the proposed measures defined in the Action Plan. The document provides the possibility of monitoring the implementation of the implemented measures and the results of the set goals.

Air quality plan in the "Novi Sad" agglomeration for the period 2017-2021. was completed since more than 90% of the measures were implemented.

Activities related to the **reduction of pollutants from traffic**, as well as activities related to the **improvement and increase of greenery**, which contribute to the improvement of air quality, are highlighted as the most significant.



The methodology of creating the Air Quality Plan for the "Novi Sad" Agglomeration :

- carried out a **detailed review of the area for which the Plan is being prepared**;
- detailed review of all **available data on the main pollutants** in the territory of the City of Novi Sad;
- **detailed analysis of all available data and an analysis of their mutual relationship and possible impact on air quality in Novi Sad**;
- detailed **analysis of the possibility of improving air quality** in the following period was carried out and, in accordance with the results of the analysis, a **proposal was made for measures, activities and projects** that need to be carried out in the long term, as well as deadlines for their implementation;
- Conceived **action plan**, in accordance with the possibilities of local self-government and other relevant factors.

The screenshot shows a web portal interface. At the top, there is a navigation bar with the text "Насловна - Документи - Документи" and a central heading "ДОКУМЕНТИ". Below this, a list of documents is displayed, including "Решење о изменама и допунама Програма коришћења средстава Буџетског фонда за заштиту животне средине Града Новог Сада за 2023. годину", "Програм контроле квалитета ваздуха на територији Града Новог Сада у 2023. и 2024. години", "Извештај о коришћењу средстава Буџетског фонда за заштиту животне средине Града Новог Сада за 2022. годину", "Програм коришћења средстава буџетског фонда за заштиту животне средине Града Новог Сада за 2023. годину", and "План квалитета ваздуха у Агломерацији 'Нови Сад' за период 2022-2026. године". The last document title is highlighted with a red box. A sidebar on the right contains a menu with items: "ЈАВНИ КОНКУРСИ", "ПРОГРАМСКЕ АКТИВНОСТИ", and "ЛОКАЛНИ РЕГИСТАР ИЗВОРА ЗАГАЂИВАЊА". At the bottom, there is a footer with the text "Извештај о стању квалитета животне средине за 2021. годину у Аутономној покрајини Војводини".

## DESCRIPTION OF MEASURES PROVIDED IN THE ACTION PLAN

### 1. Reduction of air pollution from thermal power plants and furnaces

- Carrying out regular inspections and ordering emission measurements by authorized organizations, detecting entities that emit harmful substances into the air above the GVE
- Creation of conditions for increasing the number of connections to the remote heating system by connecting individual consumers and public facilities
- Improving the energy efficiency of public buildings under the jurisdiction of the City of Novi Sad
- Improving the energy efficiency of residential buildings and family houses through projects co-financed by the City of Novi Sad and Ministry.

|              | 2022 year |               | 2023 year |               |
|--------------|-----------|---------------|-----------|---------------|
|              | Dinars    |               | Dinars    |               |
| SOLAR        | Dinars    | 10,200,000.00 | Dinars    | 18,500,000.00 |
|              | citizens  | 26            | citizens  |               |
| CARPENTRY    | Dinars    | 46,416,816.18 |           |               |
|              | citizens  | 369           |           |               |
| GAS BOILERS  | Dinars    | 831,707.02    | Dinars    | 5.000.000,00  |
|              | citizens  | 11            | citizens  |               |
| PIPE NETWORK | Dinars    | 219,985.74    |           |               |
|              | citizens  | 4             |           |               |





## 2. Reduction of air pollution from traffic

- Creating conditions for reducing pollution from public transport
- Smart City - system that will automatically manage traffic at intersections by measuring the number of vehicles
- Encouraging the use of public transport and alternative transport choices

In order to reduce the emission of polluting substances originating from motor vehicles, the City Council adopted a Conclusion recommending to all public and public utility companies and institutions, the founder of which is the City of Novi Sad, that, in the process of purchasing motor vehicles and work machine, they give preference to vehicles and machines that pollute the environment less, that is, to vehicles that use alternative fuels and alternative drives.

The public city transport company "Novi Sad" within its activities influenced air quality preservation measures by purchasing new CNG-powered buses with a Euro 6 engine, as well as the purchase of [electrical vehicles](#).





### 3. Increasing the volume of bicycle traffic

- Promotion of bicycle traffic.
- Promotional activities with the aim of affirming cycling

The City of Novi Sad, as the first City in Serbia, allocated funds in order to increase the number of cyclists on the streets of the City, improve air quality and reduce environmental pollution, to provide support to citizens for the purchase of bicycles. So far 4.873 citizens have received funds to buy a new bicycle.

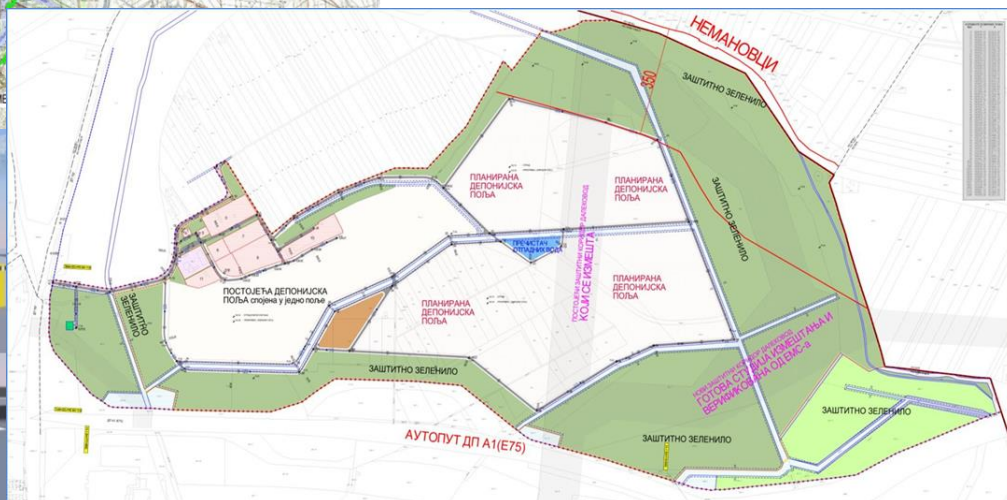


#### 4. Rehabilitation and recultivation of unsanitary landfills

- Systematic removal of illegal landfills.
- Cleaning and washing city streets, especially on dry and hot days, to reduce the level of suspended particles in the air.



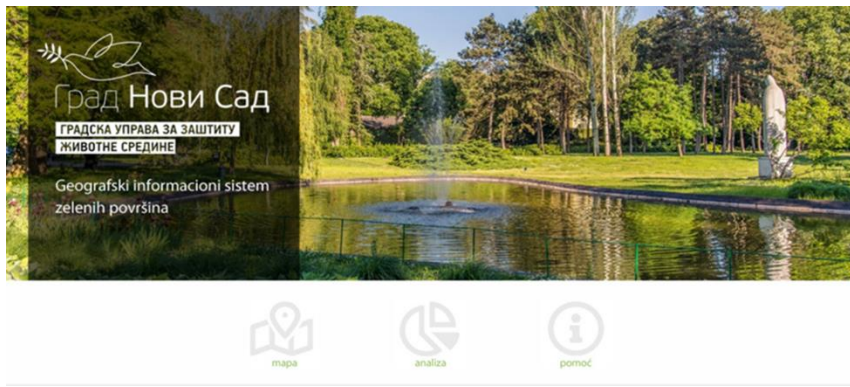
Regional Center for Waste Management





## 5. Green infrastructure

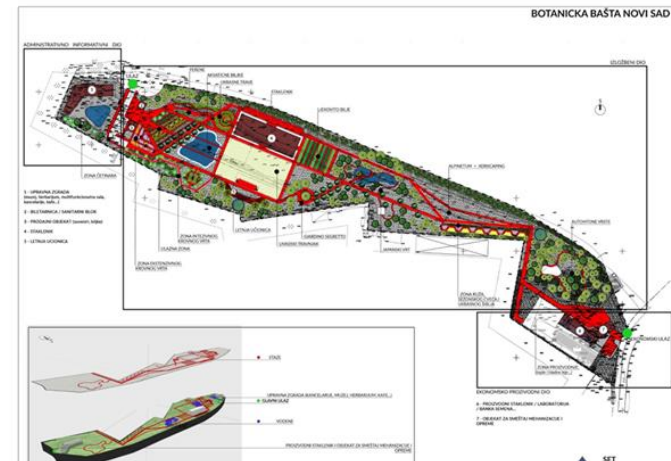
- Establishing a cadaster of public green areas on the territory of the City through an information system
- Construction of new park areas



**Cadaster of greenery** - the geographic information system of the green areas of the City of Novi Sad, an information base has been formed through which trends and activities related to the arrangement, maintenance and improvement of green areas will be monitored.

<https://gis.zelenilo.com/>

Design and technical documentation for the construction of the **Botanical Garden complex** in Novi Sad is in progress.



Preparation of project and technical documentation for the **new park** at SPENS.

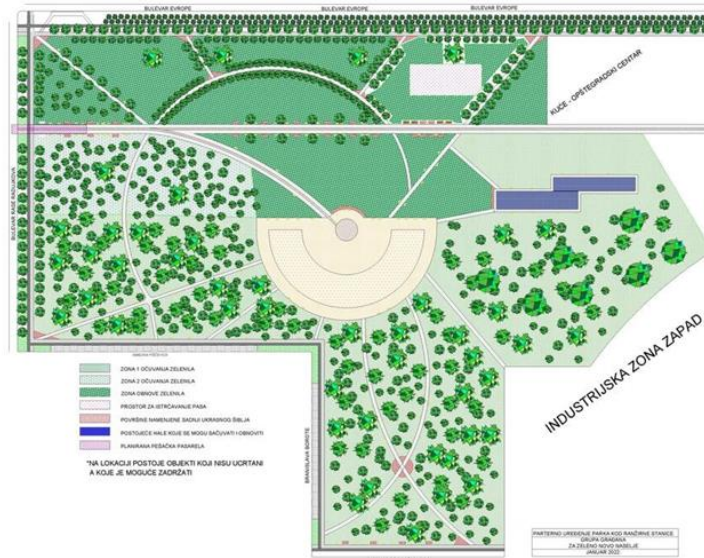


Preparation of project and technical documentation for the reconstruction of the arrangement and equipment of the "University Park" with technical control.

Before the construction of the **compost field**, the collected green residues from public green areas was mostly taken to the landfill. This treatment now reduce produced greenhouse gas emissions (GHG) in landfill.











ОЖИВИМО ПАРКОВЕ



ПРЕТВОРИМО  
**КВАРТ У ПАРК**  
ЗА ЗЕЛЕНИ НОВИ САД



In order to improve greenery in the Agglomeration in the period from 2017-2021. 33,000 trees were planted on the territory of the City.

## 6. Improvement of monitoring

- Procurement and reinstallation of software and hardware for automatic monitoring of air quality in the City of Novi Sad
- Improvement of the information system for public availability of data on environmental air quality in the City of Novi Sad
- **Development of a smart air monitoring system (Phase I)**

| Air Quality Index                        |                |   |
|--|----------------|---|
| AQI Category and Color                   | Index Value    | Description of Air Quality  |
| Good<br>Green                            | 0 to 50        | Air quality is satisfactory, and air pollution poses little or no risk.   |
| Moderate<br>Yellow                       | 51 to 100      | Air quality is acceptable. However, there may be a risk for some people, particularly those who are unusually sensitive to air pollution. |
| Unhealthy for Sensitive Groups<br>Orange | 101 to 150     | Members of sensitive groups may experience health effects. The general public is less likely to be affected.                              |
| Unhealthy<br>Red                         | 151 to 200     | Some members of the general public may experience health effects; members of sensitive groups may experience more serious health effects. |
| Very Unhealthy<br>Purple                 | 201 to 300     | Health alert: The risk of health effects is increased for everyone.   |
| Hazardous<br>Maroon                      | 301 and higher | Health warning of emergency conditions: everyone is more likely to be affected.   |



## 7. Raising public awareness of the importance of air quality

- Raising public awareness about the harmful impact of heating households with solid fuels, promoting the use of more efficient stoves, correct methods of burning, adequate maintenance of chimneys, using eco-friendly transport, behaving in traffic, etc.







## SUSTAINABLE ENERGY AND CLIMATE ACTION PLAN – SECAP

2015. GLOBAL COVENANT of MAYORS for CLIMATE & ENERGY

The Covenant of Mayors is the world's largest urban the climate and energy initiative, involving thousands of local and regional authorities



**11813**

Signatories



**284**

Supporters



**203**

Coordinators



**18952**

Best practices actions



**7967**

Submitted action plans

Signatories commit to develop, implement and report - within the established deadlines, an action plan to reach their targets

**SECAP is key implementation tool for local authorities**, it defines mitigation targets and adaptation goals and is based on a Baseline Emission Inventory (BEI) and a Risk and Vulnerability Assessment (RVA), which provide an analysis of the current situation at a given moment. They serve as a basis for defining a comprehensive set of actions that local authorities plan to undertake to reach their targets, as well as to alleviate energy poverty

The Covenant Signatories commit to developing a local action plan and reporting on progress to meet 2 main objectives:

- reducing greenhouse gas emissions on their local territory (Reduce CO<sub>2</sub> emissions by at least 40% by 2030)
- Increase resilience to climate change



# City of Novi Sad

2022. official entry into the *GLOBAL COVENANT of MAYORS for CLIMATE & ENERGY*

2023. SECAP

**Measures targeting different groups and covering several sectors are frequently selected from local authorities in their Sustainable Energy and Climate Actions Plans.**

The pre-defined sectors within MyCovenant are buildings, transport, energy, water, waste, land use, agriculture, biodiversity, health, civil protection, tourism, education, ICT.

The city of Novi Sad has chosen the following sectors:

- Buildings
- Public lighting
- Transport and urban mobility
- Energy supply
- Management of waste and wastewater
- Agriculture and forestry



## MEASURES TO MITIGATE THE EFFECTS OF CLIMATE CHANGE:

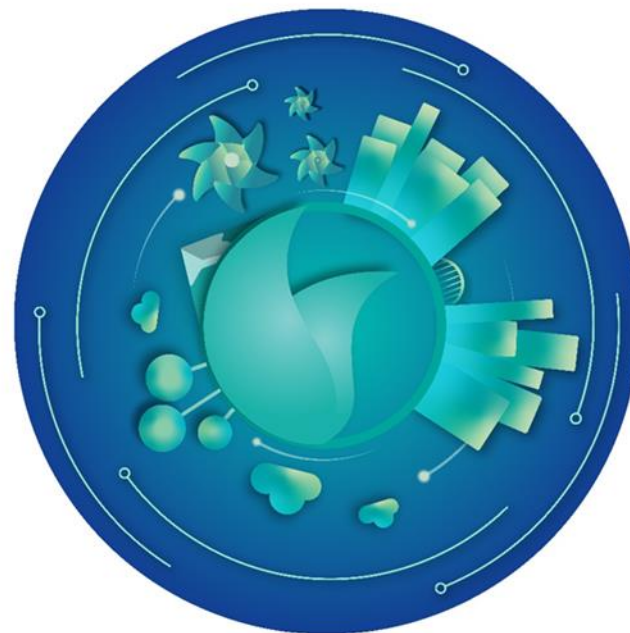
- Systemic reconstruction of buildings under the jurisdiction of the City of Novi Sad, residential buildings and family houses in order to improve energy efficiency
- Introduction of electric modes of transportation
- Improvement of bicycle and pedestrian traffic
- Expansion of the distribution network of district heating and domestic hot water
- Construction of facilities for municipal wastewater treatment
- Construction of a regional landfill for waste management
- Implementation of circular economy using IoT technology





## ADJUSTMENT MEASURES TO THE EFFECTS OF CLIMATE CHANGES:

- Rationalization of water consumption in buildings owned by the City of Novi Sad
- Developing a water saving plan with measures to optimize water distribution
- Maintenance of existing and creation of new urban green areas
- Construction of new parks
- Mapping of buildings for the purpose of determining the potential of applying technologies of renewable energy sources
- Information and education about the advantages of climate-resistant buildings.....



**WORKING GROUP FOR THE CREATION  
AND MONITORING OF THE  
IMPLEMENTATION OF THE ACTION PLAN  
FOR SUSTAINABLE ENERGY AND CLIMATE  
OF THE CITY OF NOVI SADA**

THANK YOU FOR YOUR ATTENTION

