

# *Action plan and measures of the town Brezno aimed at mitigating the effects of climate change*

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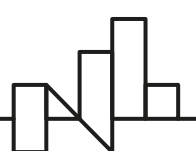
Project management department  
Town Brezno

19. 05. 2022

## Climate change - global change and the global environmental problem

- its causes and consequences also at the level of local governments
- cities are responsible for a significant share of greenhouse gas emissions due to their consumption of energy, services and products
- on a global scale, cities and their inhabitants are responsible for 40-70% of greenhouse gas emissions, with energy consumption being an important element
- local governments have the tools and resources to effectively influence their local contribution to global climate change

The current situation is not indifferent to the management of the city of Brezno, it has decided to take **an active approach to climate and environmental protection.**

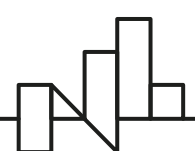


# Project: Action plan and measures of the town Brezno aimed at mitigating the effects of climate change

- **Project outcome and Action Plan:** to minimize risks and negative consequences of climate change by implementation of a combination of measures aimed at reducing greenhouse gas emissions (mitigation measures) and adaptation measures
- **Project outcome:** Increased resilience to climate change and the ability to respond to climate change within target areas
- **Project duration:** February 2021 – February 2024
- **Grant amount:** 1 400 000 €
- **Co-financing:** 73 695,00 €
- **Project promoter:** town Brezno
- **Project partner:** mesto Ullensvang

*Project is funded under the program „Climate change mitigation and adaptation“ (SK-Climate) co-financed by the Norwegian Financial Mechanism 2014 – 2021, specifically Norway Grants and national budget of Slovakia.*

<http://www.breznoklima.sk>



# Project activities:

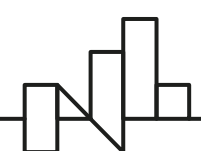
## 1. Development of action plan

- a comprehensive short- and medium-term strategic document that defines the city's activities aimed at reducing CO2 emissions and adapting to climate change.

## 2. Investment in buildings:

In order to contribute to the reduction of greenhouse gas emissions in its territory, the town of Brezno will implement, or is already implementing the following measures in the buildings sector:

- **Implementation of activities to increase energy efficiency - B. Němcová Kindergarten**
- **Implementation of activities to increase energy efficiency - Kindergarten Hradby**
- **Implementation of rainwater harvesting activities as part of water retention measures - B. Němcovej Kindergarten**
- **Changing the surfaces of asphalt playgrounds to bright surfaces**
- **Green walls on container stands**
- **Exterior vertical greenery in the yard of M. R. Štefánik**

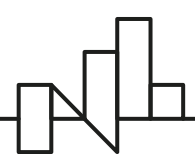


# Implementation of activities to increase energy efficiency - B. Němcová Kindergarten and rainwater harvesting activities as part of water retention measures

Current state:



Visualization:

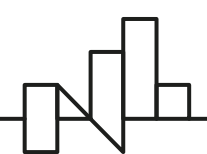


# Implementation of activities to increase energy efficiency - Kindergarten Hradby

Current state:

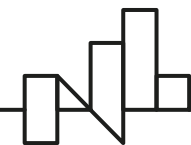


Visualization:



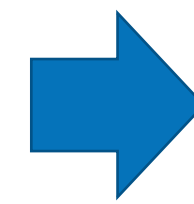
# Implementation of activities to increase energy efficiency - Kindergarten Hradby

Visualization:

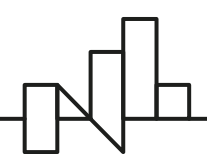


# Exterior vertical greenery in the yard of M. R. Štefánik

Current state:



Visualization:



# Project activities:

## 3. Transportation:

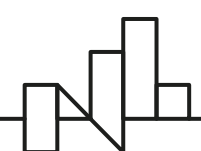
The contribution of the town Brezno to reducing the amount of pollutants released into the air in the city will be:

- **Purchase of an electric car for the purposes of town employees**
- **Purchase of 10 bicycles and bicycle stands for employees of the Municipal Office and Technical Services**

## 4. Energy saving solutions and smart solutions:

Being able to comprehensively estimate the overall pollution and air quality is very important for decision-making and implementation of preventive measures to reduce greenhouse gas emissions, therefore the town Brezno decided to implement these measures:

- **Implementation of activities - installation of air quality sensors and combined sensor of meteorological parameters in different parts of town**
- **Implementation of activities - application for air quality monitoring in town**
- **Implementation of outdoor intelligent lighting activities**

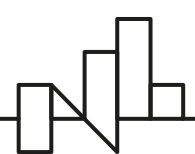


# New electric car for the purposes of town Brezno employees:



## [Volkswagen ID.4 Pure](#)

**The amount of emissions: 0**  
**Emission savings** compared to internal combustion vehicles are around **1 tonne of CO2** per year.



# Project activities:

## 5. Waste management:

The goal of the town Brezno in this area is to reduce the amount of waste disposed of in landfills and to ensure the ecological value of biodegradable waste.

- **Purchase of 1 100 l 50 containers and support of biodegradable waste including kitchen waste**

## 6. Green and blue infrastructure:

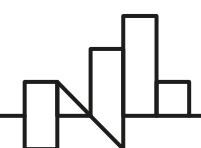
Green infrastructure belongs to vital components settlement and landscape structure, its particularly well known and its positive impact on the state and quality of the environment. The town Brezno will increase the share of green infrastructure with help of:

- **Revitalization of greenery in central urban areas (14 localities)**

## 7. Water management:

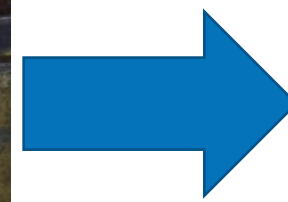
Town Brezno will implement a measure, the task of which is to stabilize the higher slope and prevent landslides on the adjacent sidewalk and subsequent communication:

- **Implementation of activities - bioretentric system with functional vegetation for retention and drainage of rainwater from the slopes (Baldovský bridge)**



# Bioretentric system with functional vegetation for retention and drainage of rainwater from the slopes (Baldovský bridge)

Current state:

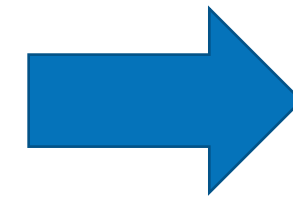


Visualization:



# Revitalization of greenery in central urban areas

Current state:

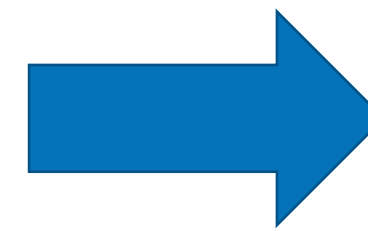


Visualization:

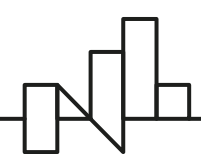


# Revitalization of greenery in central urban areas

Current state:



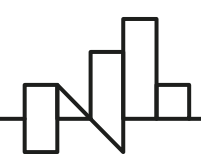
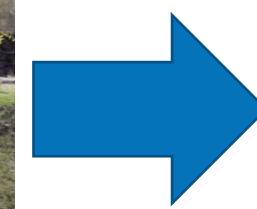
Visualization:



# Revitalization of greenery in central urban areas

Current state:

Visualization:



# Reduction of CO2

Number	Suggested measure	Emission reduction CO2 (t/y)	Emission reduction CO2 (t) for the duration of the project
1.	Implementation of activities to increase energy efficiency - Kindergarten Hradby	49,7	397,6
2.	Implementation of activities to increase energy efficiency - B. Němcová Kindergarten	14,3	114,4
3.	Implementation of outdoor intelligent lighting activities	0,192	1,536
6.	Purchase of an electric car for the purposes of town employees	1,052	8,416
7.	Purchase of 10 bicycles for employees of the Municipal Office and Technical Services	1,89	15,12
9.	Crossroad ČSA Hradby - planting a green island on the area 813 m <sup>2</sup>	0,261786	1,832502
11.	Meadow communities in 14 localities on the area 9 851 m <sup>2</sup>	3,172022	22,204154
14.	Purchase of 1 100 l 50 containers and support of biodegradable waste	169*/260**	1 898
Total estimated emission reductions CO2 (t) for the duration of the project		/	2 459,10



# Thank you for your attention.

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