



S3UNICA
Interreg Europe



European Union
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Action Plans and their possible future impact in Poland

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Background

In 2009 city has joined the Covenant of Mayors – a bottom-up movement of cities committing to achieve the EU's climate and energy targets set for 2020 on their territories. To achieve that Bielsko-Biała has developed a Sustainable Energy Action Plan until 2020 (later on integrated with the Low-Emission Development Programme adding air protection component).

The document consisted of the city's overall sustainable development vision, detailed baseline emission inventory and a set of actions allowing the city to achieve 20% reduction (and later on also other air pollutants reduction) from the territory.



Bielsko-Biała has joined this initiative during first ceremony in Brussels as one of the first Polish cities.

Background

Sustainable Energy Action Plan for Bielsko-Biała until 2020 (SEAP)

Goal: reducing greenhouse gas emissions by 20% (1990 – 2020)

The first SEAP in Poland included 16 types of investment and non-investment activities.

The most important areas of potential reduction of energy consumption and consequently, reduction of CO2 emissions and air pollutants were:

- thermo-modernization of buildings,
- application of energy-saving devices and technologies,
- use of renewable energy sources,
- change of transport habits and modernization of transport,
- changing behavior patterns (energy saving),
- reduction of emissions in the private sector, through implementation PONE program (grants) and promotion of thermal modernization.



Polish Action Plan

With completing the first set of actions until 2020, and answering to the new EU targets and new challenges faced, in October 2020 Bielsko-Biała decided to renew its commitment within the Covenant of Mayors and further support EU climate and energy policy by reducing its GHG emissions by 40% by 2030 (with respect to the same baseline).

The upgrade require data not only from the municipal sector but also from the other sectors, including the university campuses, being both significant energy consumers and the bodies that can positively influence energy situation of the city.

Policy instrument: Bielsko-Biała's Sustainable Energy and Climate Action Plan until 2030

Objective: reduction of GHG emissions from the city territory by 40% by 2030

Status: under development

S3UNICA action plan uses lessons learnt from the interregional and regional cooperation and exchanges to improve SECAP by better exploring the role of University campuses in achieving local climate and energy targets.



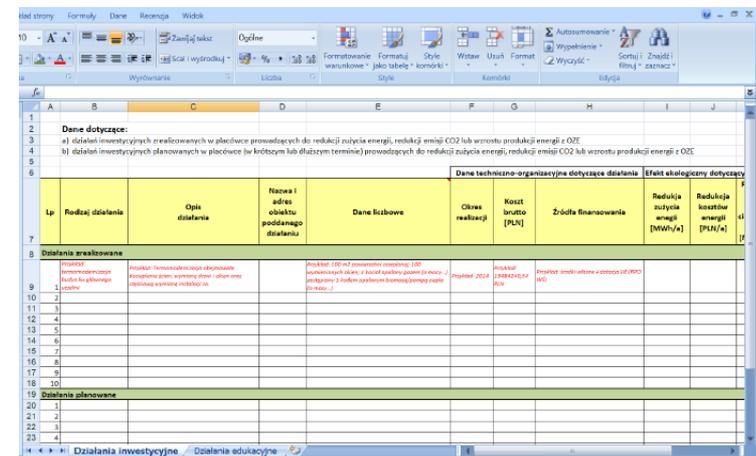
Polish Action Plan

Action 1: Involvement of universities in the data collection for the needs of the SECAP until 2030, including collection of:

- **Quantitative data** (energy consumption, achieved and planned energy savings, implemented and planned investments).
- **Qualitative data** (energy education programmes, awareness raising activities).

The data will be included in three key sections of the SECAP:

1. baseline emission inventory - they will make the inventory more realistic,
2. activities taken so far - describing up-to-date path towards reaching GHG emissions reduction,
3. action plan - describing future efforts and key local stakeholders .



Dane techniczno-organizacyjne dotyczące działania		Efekt ekologiczny dotyczący						
Lp	Rodzaj działania	Opis działania	Data realizacji	Okres realizacji	Koszt brutto [PLN]	Zródła finansowania	Redukcja zużycia energii [MWh/a]	Redukcja kosztów energii [PLN/a]
Działania zrealizowane								
1	Projekt	Projekt: Technologicznego obywatelskiego monitoringu emisji CO2 w systemie smart city - wdrażanie pilotażowego systemu monitoringu CO2	Projekt: CO2 w smart city - obywatelski monitoring emisji CO2 w systemie smart city - wdrażanie pilotażowego systemu monitoringu CO2	Projekt: CO2 w smart city - obywatelski monitoring emisji CO2 w systemie smart city - wdrażanie pilotażowego systemu monitoringu CO2	Projekt: CO2 w smart city - obywatelski monitoring emisji CO2 w systemie smart city - wdrażanie pilotażowego systemu monitoringu CO2	Projekt: CO2 w smart city - obywatelski monitoring emisji CO2 w systemie smart city - wdrażanie pilotażowego systemu monitoringu CO2	Projekt: CO2 w smart city - obywatelski monitoring emisji CO2 w systemie smart city - wdrażanie pilotażowego systemu monitoringu CO2	Projekt: CO2 w smart city - obywatelski monitoring emisji CO2 w systemie smart city - wdrażanie pilotażowego systemu monitoringu CO2
Działania planowane								
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Status: data collected and provided to the city.

Polish Action Plan

Action 2: Establishment of permanent structure facilitating collaboration between the city and local universities

This action will improve the policy instrument by ensuring permanent collaboration with and support from the university community that can significantly influence local energy and climate situation, both by involving in common energy projects, data provision, research and by modifying curricula to provide the city with the specialists needed to achieve the set targets.

Status: ongoing - a description a role of the Advisory Board was sent to the city.



Polish Action Plan

Action 3: Engaging students in research projects supporting city's Sustainable Energy & Climate Action Plan

The action foresees initiating common research projects, that on one hand would support the city with the necessary data and on the other help students to increase their knowledge and capacities, relevant for entering the labour market.

Status: ongoing - possible research topics have been identified by the city and discussion during the meeting; planned activities implemented by local universities have been provided to the city.



Local Advisory Board

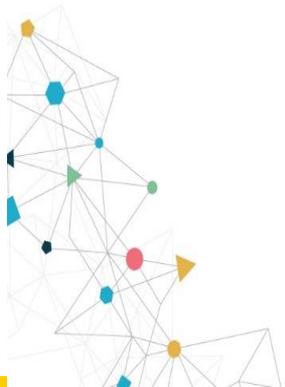
Key stakeholders representative of the educational environment in Bielsko-Biala

UNIVERSITIES:

1. University of Technology and Humanities
2. Higher School of Administration
3. University of Economics and Humanities
4. University of Finance and Law
5. Bielsko School of Higher Education

SECONDARY SCHOOLS – INDUSTRY/PROFILED:

1. Bielsko Education Center
2. Bielsko Industrial School
3. Industry School of the 1st Degree No. 4
4. Complex of Electronic, Electrical and Mechanical Schools
5. Complex of Automotive and General Education Schools
6. Complex of Schools of the Agricultural Education Center
7. Technical and Commercial School Complex



Local Advisory Board



We organized Local Advisory Board meetings in Bielsko-Biała during which we had the opportunity to discuss about cooperation between Bielsko's universities and the City.

Representatives of the LAB had an excellent opportunity to present their good practices during the international exchange of experience. They also took part in a study visit that demonstrated energy efficiency solutions used at Krakow universities - the AGH University of Technology Energy Center and the Małopolska Laboratory of Energy Efficient Building.

Polish Action Plan

Proposed activities to strengthen cooperation between the City of Bielsko-Biala and the scientific, research and educational environment

Areas of cooperation

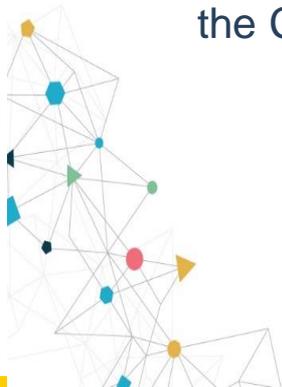
1. Environmental topics of students' bachelor's and diploma theses
2. Surveying the local community in the areas indicated by the City
3. Collecting data and information needed by the City to carry out its tasks in the field of environmental and climate protection
4. Participation of students in projects implemented by the City
5. Participation of students in events organized by the City
6. Participation / support of the City in events and projects implemented by universities and branch schools



Polish Action Plan

1. Environmental topics of students' bachelor's and diploma theses

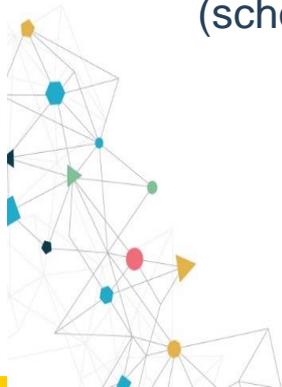
- Analysis of the potential of solar surfaces on the roofs on public buildings managed by the City
- Inventory of photovoltaic installations on the roofs on buildings in Bielsko-Biała using the Google Maps and obtaining data on connected PV installations from the electricity distribution network operator
- Analysis of changes in air quality in Bielsko-Biała
- Development of a mini-version of SECAP in the sector of public buildings owned by the City
- Development of a mini-version of SECAP in the sector of climate adaptation based on the City's Municipal Adaptation Plan



Polish Action Plan

2. Surveying the local community in the areas indicated by the City

- Analysis of the environmental awareness of the local community based on a survey of knowledge of environmental grant programs implemented by the City
- Analysis of residents' environmental awareness of the City's environmental activities based on a survey of selected social groups
- Analysis of residents' environmental investment plans based on surveying selected districts of the City
- Analysis of residents' environmental awareness based on surveying the City's educational activities (Bielsko-Biała protects the climate promotional and educational campaign implemented since 2011) - a survey of the City's educational institutions (schools, kindergartens, libraries, cultural centers, etc.)



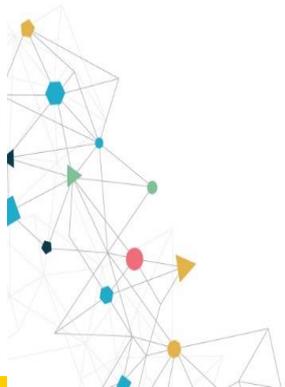
Polish Action Plan

3. Collecting data and information needed by the City to carry out its tasks in the field of environmental and climate protection

- Creation or updating of tree cards
- Location of wild garbage dumps and creation of a database

4. Participation of students in projects implemented by the City

- Projects involving household communities in the development of energy efficiency
- Concept and investment projects for solar roofs on municipal public buildings
- Projects on sustainable development with the participation of local entities



Polish Action Plan

5. Participation of students in events organized by the City

- Annual Beskidzki Festival of Good Energy - a pro-environmental event for city residents - volunteering, developing a workshop scenario, animating workshops, developing the concept of the event
- Educational ecological picnics - planned at least 2 per year
- Ecological workshops dedicated to children, students and adult citizens of the City - planned at least 4 per year

6. Participation of the City in events and projects carried out by universities

- Lectures
- Scientific conferences
- Seminars
- Readings
- Projects
- Science festivals, etc.



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Thank you!

Questions welcome



Project media