



Energy transition in the Malopolska Region

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Piotr Lyczko Malopolska Region



Malopolska region: 3.4 million inhabitants, 182 municipalities Subregion Oswiecimski (NUTS 3): 550,000 inhabitants, 30 municipalities



Malopolska ranks 11th among all European regions in terms of the number of coal-related direct jobs and 12th in terms of the risk of socio-economic effects of energy transformation.



MAŁOPOLSKA Energy transition in the Malopolska Region The hard coal is extracted in 2 coal mine: \checkmark miechowski olkuski **HCM Brzeszcze** ۲ HCM Siersza dąbrowski proszowicki Janina **Power Plant** HCM Janina in Libiąż Krakow . CHP krakowski with a total annual production of over 2.3 million HCM Brzeszcze Skawina chrzanowski tons/yr. CHP Kraków Tarnów approx. 4,000 employees (2019). brzeski wielicki oświęcimski \checkmark 3 coal power plants: tarnowski wadowicki bocheński myślenicki Trzebinia PP (546 MW) . Kraków CHP (460 MW) suski limanowski Skawina CHP (490 MW) **Nowy Sącz** gorlicki approx. **1,200 employees** (2019) nowosądecki nowotarski A total of 8,900 workers in Malopolska are related to the mining sector. tatrzański





- The region's energy transformation began in the 1990s. The closure of 3 mines (in Trzebinia in 2001, and some mine shafts in Brzeszcze in 1995 and Libiąż in 2005) still has negative social, economic and environmental effects in the region.
- ✓ In 2010-2019, the total employment in HCM Brzeszcze and HCM Janina decreased by 30%.
- ✓ In 2020, two 120 MW coal-fired units at the Siersza Power Plant in Trzebinia was decommissioned. The complete shutdown of the coal units in Trzebinia is planned by the end of 2025.
- ✓ The restructuring of the coal mining sector in Malopolska is directly related to the strategic decisions at the national level and the government's mine restructuring plan.

Energy-intensive industries in Malopolska



Industrial sectors exposed to the negative effects of the energy transformation operating in Malopolska:

- ✓ metallurgical industry ArcelorMittal in Krakow
 ZGH Bolesław
- ✓ chemical industry
 Grupa Azoty in Tarnow
 Synthos in Osiecim
- ✓ paper industry
 Velvet Care Klucze
- ✓ cement industry
 Cementownia Krakow Nowa Huta

ArcelorMittlal Poland, the Polish unit of the global steel giant, announced the decision to close for good its blast furnace and steelwork in Krakow, which employ 1200 people.

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Malopolska as a leader of air protection



Malopolska is the first Polish region to limit the use of coal for household heating. The Regional Assembly adopted **a solid fuel ban in Krakow** effective from 01/09/2019, and **an obligation to replace old solid fuel boilers in the region** by 31/12/2022.



Since 2015, Malopolska has been successfully implementing LIFE Integrated Project - Ecomanagers in 62 municipalities help residents to replace old boilers with environmentally friendly energy sources, control compliance with air protection regulations and conduct educational activities.



Between 2015 and 2020 winter season, Malopolska reduced the PM10 concentration by an average of 30% in the region and 45% in Krakow.





Malopolska is the first Polish region with a dedicated plan for climate change mitigation and adaptation. **The Regional Action Plan for Climate and Energy (RAPCE)** was adopted by the Management Board of Małopolska on 18 February 2020. **The Plan supports a low-carbon transition of the region through mobilisation of public and private funds.**

In the years 2021-2030, **the new LIFE IP EkoMałopolska** will be implemented in the field of climate change mitigation.

Main tasks:

- ✓ low-carbon transformation of the heating appliance market and related green job creation,
- ✓ scenarios for GHG emission reduction in the Malopolska Region for 2030 and 2050,
- ✓ support for the use of renewable energy sources at the local level.





Malopolska for the climate

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Malopolska is one of the 7 regions in the EU that received technical support under the START project:

- ✓ a **regional profile of the Western Malopolska** was prepared,
- ✓ project concepts for transition of coal regions in Malopolska applying for support from JTF will be developed,
- ✓ in January 2020, the Malopolska Region officially joined the Platform for Coal Regions in Transition,
- ✓ representatives of Małopolska participate in the Working Group for Just Transition at the Ministry of Development Funds and Regional Policy,

The **Territorial Just Transition Plan** (TJTP) is under preparation – the draft is scheduled by the end of 2020.





The local governments and companies in the Western Malopolska prepared **60 project concepts** with the **total budget over 700 Million EUR.**

Environment and energy:

 Supporting the European Green Deal through integrated operations to protect the environment, ensure local energy security and create permanent job vacancies in mining municipalities: Babice, Libiąż, Trzebinia, UG Libiąż, 15 Million EUR.

Social infrastructure:

- 1. "FabLab" a social project aimed at increasing the competences of the region's inhabitants and supporting the transfer of advanced technologies, MARR, 698,000 EUR.
- 2. The "Small Grants Program" Program aims to develop small and micro-enterprises, MARR, 1,3 Million EUR

Revitalization:

 Revitalization of the closed Coal Mine Brzeszcze Wschód [East] with its surroundings - implementation a the model of transition to a climate-neutral, circular economy, UG Brzeszcze, Spółka Restrukturyzacji Kopalń, AGH University of Science and Technology, 47 Million EUR.

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The Board of the Malopolska Region appointed Tomasz Urynowicz as the Plenipotentiary for Just Transformation

A Just Transition Working Group was established with the participation of:

- ✓ government, regional and local administration
- \checkmark owners of mines and post-mining areas
- ✓ entrepreneurs, employers' associations

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- \checkmark research units
- ✓ trade unions, non-governmental organizations

The first meeting of the Working Group took place on 12 November 2020.





On 12 November 2020, the cooperation agreement was signed with the Tauron Polska Energia Group.

Tauron Wydobycie S.A. is the owner of the HCM Brzeszcze and HCM Janina in Libiąż as well as the Siersza Power Plant in Trzebinia.

Tauron Dystrybucja S.A. is the largest electricity distributor in Malopolska, and serves 5.6 million energy consumers in southern Poland.

The capacity of the Tauron Group's energy sources is 5.2 GW. The Group's plan envisages increasing the contribution of low and zero-emission energy sources from 10% in 2018 to 66% in 2030.



Challenges faced by the authorities of Malopolska

- ✓ confirmation of the participation of Western Malopolska in the possibility of using the Just Transition Funds
- ✓ preparation of the Territorial Just Transition Plan in the process of cooperation with local governments of Western Małopolska and social partners
- development of investment projects that will serve the energy transformation of Western Malopolska and mitigate its negative effects
- ✓ preparation of a transformation strategy for energy-intensive industries in Malopolska Region

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