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Modernising industry

With new technologies, Ukraine is reducing harmful emissions from industrial enterprises

The challenge: industrial emissions are damaging the environment

Air pollutants, waste water, solid waste – industrial emissions are responsible for much of the environmental pollution in Ukraine. These emissions do not only harm the environment, but also pose a risk to human health.

To address this problem, Ukraine pledged in 2017 to implement the requirements of the European Union's Industrial Emissions Directive (IED) as part of the country's Association Agreement with the EU. The aim is to significantly reduce the pollution caused by industry and to increase energy efficiency in industrial enterprises. To achieve this goal, low-emission techniques – known as best available techniques (BAT) – are to be used.

Under the plans set out by the Ukrainian Government, operators of industrial enterprises are required to lower their emissions to the levels that can be achieved using these techniques.



Project title:	Best available technologies (BAT) for Ukraine
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Lead executing agency:	Ministry of Environmental Protection and Natural Resources of Ukraine
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Industrial emissions not only harm the environment, but also pose a risk to human health.

The implementation of the directive calls for not only extensive expertise and experience of industrial processes and emissions reduction techniques in industry and administration, but also administrative structures conducive to practical implementation. The Ukrainian Government requested support by specialists to meet the associated challenges.

Our approach: modern technology for companies

With the project Best Available Techniques (BAT) for Ukraine, GIZ is working on behalf of the German Federal Ministry for the Environment, Nature Conservation, Nuclear Safety and Consumer Protection (BMUV) to support Ukraine in establishing the necessary legal framework conditions and implementing the requirements in practice. The objective is to reduce emissions of harmful substances and greenhouse gases through innovative industrial processes. To achieve this, GIZ supports capacity development in state institutions and companies. Some industrial enterprises also receive grants to enable them to modernise their facilities in line with the BAT concept.

In all phases of the legislative procedures, GIZ works closely with the Ministry of Environmental Protection and Natural Resources of Ukraine. This includes providing advice on revising the permit system for industrial enterprises. Training courses and study trips enable ministry employees to learn more about their new tasks and responsibilities.

Another component of the project is the development of an IT system that allows permits for large industrial enterprises to be obtained online.



Innovative industrial processes are being introduced to reduce emissions of harmful substances and greenhouse gases in Ukraine.



Digital processes are also contributing to greater energy efficiency in industrial enterprises.



‘Crucial step towards sustainability’

Victoria Kyreieva, Deputy Ministry of Environmental Protection and Natural Resources of Ukraine

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Our results: BAT ready for implementation

- After several years of preparatory work, the Ukrainian parliament passed a law on the implementation of the EU’s Industrial Emissions Directive in July 2024. In the run-up to this decision, a comprehensive non-legislative regulatory framework was developed to enable best available techniques to be implemented in full in Ukraine.
- GIZ has developed a financing mechanism to support Ukrainian companies in introducing best available techniques. In 2023, the Ukrainian Government published an invitation to tender for support projects aimed at modernising industry. The modernisation measures are intended to reduce emissions released into the air and water, treat industrial waste, convert fossil fuels and increase energy efficiency in companies involved in food or metal production and energy conversion. Grant agreements had been signed with two companies by mid-2024, and preparations for another project are already well under way.
- The development of software that allows industrial enterprises to obtain permits online is almost complete.

‘We are pleased and proud to work with GIZ on this important project. The BAT initiative helps to step up Ukraine’s efforts to combat industrial environmental pollution and support the introduction of environmentally friendly technologies. This partnership is a crucial step towards sustainable development and lays the groundwork for aligning our country’s environmental policy with that of the European Union.’

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