



EIPC

Research Institute
„Environmental Industrial Policy Centre“



BEST AVAILABLE TECHNIQUES IN THE INTERNATIONAL AND RUSSIAN CONTEXT

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INTERNATIONAL CO-OPERATION

01

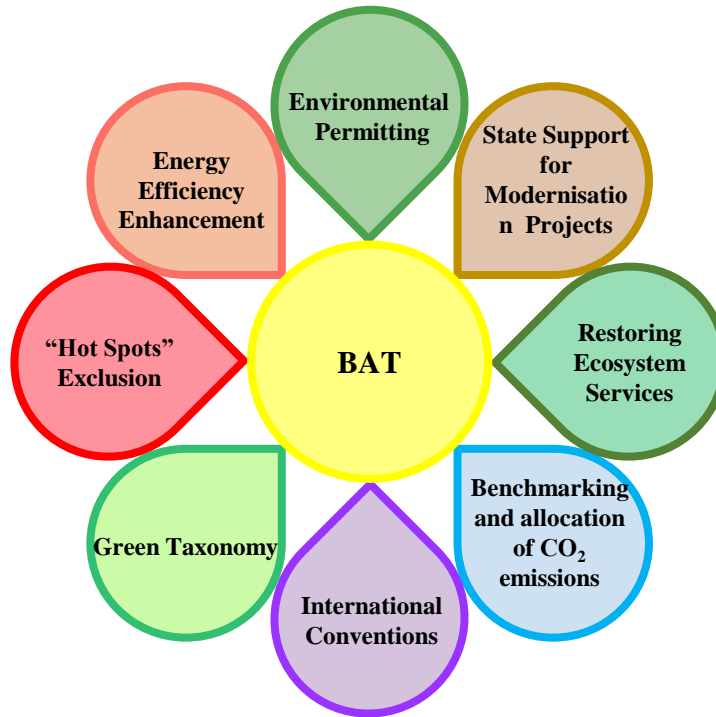
Environmental Industrial Policy Center collaborates with leading international organisations, strengthening historically established links and establishing the new ones.

We participate in the development and implementation of a number of international projects. We run research programmes, hold conferences, seminars, meetings of working and expert groups.

TOGETHER WITH

- Swedish Environmental Protection Agency
- Norwegian Environmental Protection Agency
- Overseas Development Institute, UK
- Mott MacDonald, UK
- Nordic Audit, Sweden
- Finnish Environment Institute
- Deutsche Gesellschaft für Internationale Zusammenarbeit, Germany
- Singapore Chemical Industry Council
- GS Renewable
- IGTIC, Kazakhstan
- Hendrikson & Ko, Estonia

BEST AVAILABLE TECHNIQUES AND SUSTAINABLE DEVELOPMENT GOALS





Best Available Techniques and the Organisation for Economic Co-operation and Development

02

Best Available Techniques and the Organisation for Economic Co-operation and Development

Organisation for Economic Co-operation and Development (OECD) – is an intergovernmental organisation where representatives of 35 developed countries of North and South America, Europe, Asia-Pacific region, as well as the European Union work on the coordination and harmonisation of procedures and approaches in various areas, discuss issues of common interest, look for solutions to international problems.

The OECD's project “Best Available Techniques to Prevent and Control Industrial Pollution” assists governments in implementing policy instruments and practices based on BAT principles or similar concepts.

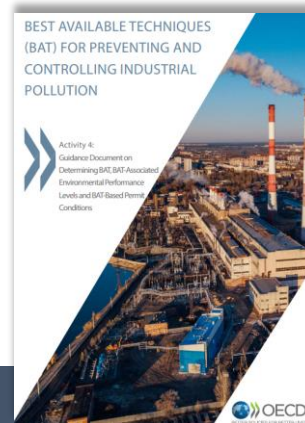
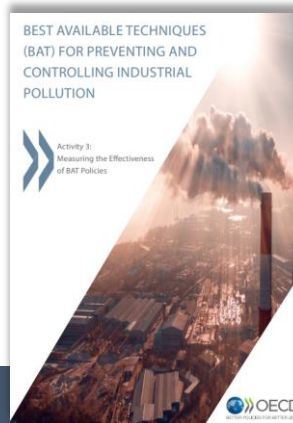
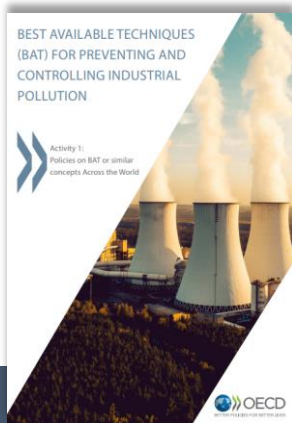
The project practically solves the problem of reducing and, if possible, preventing environmental pollution by industrial companies, as well as achieving the UN Sustainable Development Goals.



As an expert organisation, EIPC:

- undertakes a comparative analysis of the procedures for determining BAT in Russia and the largest economies in the world
- assesses the effectiveness of BAT policies in the Russian Federation
- assesses the effectiveness of BAT implementation in pilot industries
- prepares information on BAT implementation status in Russian legislation
- shares information about the OECD Project with Russian-speaking scientific and expert community.

Best Available Techniques and the Organisation for Economic Co-operation and Development





Best Available Techniques and Reduction of Environmental Impact

03

Best Available Techniques and Environmental Impact Reduction

The Russian-German project “Climate Neutral Economic Activity: Implementation of the Best Available Techniques in the Russian Federation” has been implemented in Russia since 2015 on behalf of the German Federal

Ministry for the Environment, Environmental Protection and Nuclear Safety. The project is a part of the program of the German Climate-Saving Technologies Initiative (DKTI) and the International Climate Protection Initiative.

The project supports Russian partners in the process of industrial transition to BAT principles by sharing their implementation experience in 5 areas: Legislation, Institutional implementation, Cooperation with Business, Human Resource Development and Technology Platform.

Jointly, EIPC and Russian-German project

- hold joint events - conferences, seminars, round tables
- organise expert meetings to harmonise the positions of the parties on BAT concept development, circular economy principles, industrial decarbonisation
- prepare practical recommendations for BAT implementation.



Best Available Techniques and Resource Efficiency Enhancement

04

Best Available Techniques and Resource Efficiency

In 2018-2020, EIPC conducted a number of projects aimed at the enhancement of resource (and in particular – energy) efficiency of industrial enterprises.

Leading British expert organisations helped to introduce

the UK experience in such sectors as pulp and paper production, glass manufacture, production of cement, energy generation, etc.

Practical workshops were organised in Moscow, Saint-Petersburg, Ekaterinburg, Vladimir, Ryazan, Cherepovets and Tula.

In 2028-2019, the project “Developing and testing energy efficiency instruments and promoting corporate climate leadership in selected Russian industrial sectors” helped to motivate companies to introduce climate initiatives by analysing existing barriers, developing and testing new models for supporting resource and energy efficiency projects.

As part of the project EIPC:

- analysed existing international approaches to encouraging resource and energy efficiency projects
- developed models for encouraging resource and energy efficiency projects for companies in pilot industrial sectors in Russian regions
- ensured the involvement of food industry companies in the development and application of resource and energy efficiency improvement models, as well as output dissemination.



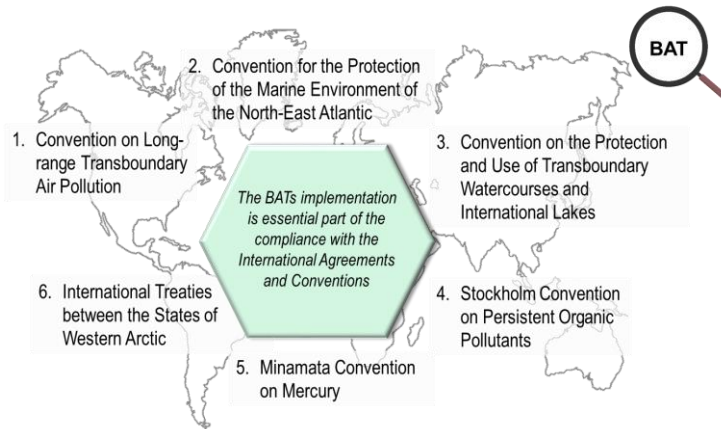
Best Available Techniques and International Conventions

05

Best Available Techniques and International Conventions

Best Available Techniques (BAT) concept has been developed as a major pollution prevention and control tool designed to ensure a high level of environmental and resource efficiency.

BAT and similar concepts are essential elements for setting emission levels and other conditions for issuing environmental permits in different countries.



As part of the project, EIPC:

- develops recommendations on BAT application to fulfill international obligations of the Russian Federation
- analyses the applicability of Russian approaches to setting BAT-associated emission levels and prepares draft BAT reference documents aimed at international implementation (Guidelines for municipal wastewater treatment for BRICS).



Best Available Techniques and the Baltic Sea

06

Best Available Techniques and HELCOM

Convention on the Protection of the Marine Environment of the Baltic Sea Area (HELCOM) is one of the oldest international agreements in the field of environmental protection signed by the Russian Federation.

The preservation of the unique natural environment of the Baltic Sea is especially important for Russia, since the second largest and the second most populous city in the country, St. Petersburg, is located on its shores.

BAT is an effective tool for improving the quality of wastewater discharged by various companies into the Gulf of Finland.



As part of the project, EIPC:

- analyses the environmental performance of installation discharging wastewater into the Baltic Sea
- develops recommendations for BAT implementation, contributing to the wastewater pollutant reduction.



Best Available Techniques and Barents Euro-Arctic Region

07

Best Available Techniques and Barents Euro-Arctic Region

Barents Euro-Arctic Region is the territory in the Northwestern Federal District of Russia, which includes the Arkhangelsk Region, the Nenets Autonomous Area, the Murmansk Region, the Republic of Karelia and Komi Republic

The main objective of the project member states (Finland, Norway Russia and Sweden) is to determine the desired environmental performance indicators (specific exclusion criteria) and technical, technological and management solutions (action plans, BAT) to reduce the environmental impact of the “Hot Spots”.

Initially, there were 42 Environmental Hot Spots in these regions – locations and installations with significant negative impact on the Barents ecosystems.

In 2019-2020, BAT implementation was used for the first time as the key criteria for excluding Russian industrial installations from the List of Environmental Hot Spots

As part of the project, EIPC:

- analyses resource efficiency and environmental performance of companies from the Hot Spots List
- coordinates the development of specific criteria for excluding companies from the Hot Spots List based on applicable BATs
- together with Nordic experts, implement the procedure for excluding Russian companies from the environmental Hot Spots List.



Best Available Techniques and GHG Emissions Reduction

08

Best Available Techniques and GHG Emission Reduction

The project “Assessment and capacity building of energy-intensive industrial companies in improving their energy efficiency and implementing the Best Available Techniques and GHG emission reduction”, took place in 2019-2020, was devoted to identifying BAT-related approaches and methods in pilot industrial sectors for GHG reduction

EIPC continues collaborating with British companies running workshops/webinars for regional stakeholders and analysing approaches to the industrial decarbonisation applied in the UK

As part of the project, EIPC:

- undertook a comparative analysis of energy efficiency and GHG emissions in heavy industry in the UK (and Europe) and Russia, using the following industries as an example : pulp and paper production, cement production, glass production
- prepared a guide for implementation of the energy management principles and requirements as a tool to reduce GHG emissions and improve energy efficiency
- developed sectoral recommendations (guidelines) and training materials on improving energy efficiency and reducing GHG emissions.



Best Available Techniques and Restoration of Ecosystem Services

09

Best Available Techniques and Restoring Ecosystem Services

“Climate change adaptation and mitigation based on UK and Russian experience for economic and environmental systems of the pilot Russian region” is a joint project of the EIPC and the Overseas Development Institute in 2020-2021, which is aimed at preparing scientifically based recommendations for climate change mitigation and adaptation, taking into account the British experience and using the environmental and economic systems of the Meshchera Lowlands as an example.

Best environmental practices and environmental approaches to protect, sustainably manage and restore ecosystems, address social issues, ensure human well-being and maintain biodiversity have become the main themes of the EIPC's cooperation with leading research and consulting organisations of the United Kingdom.

As part of the project, EIPC:

- prepared and tested scientific and methodological materials for the development of approaches to assess the risk of climate change using the environmental and economic systems of the Meshchera Lowlands as an example
- developed science-based recommendations for reducing greenhouse gas emissions, improving energy efficiency and climate change adaptation for key industrial installations in Meshchera
- prepared analytical articles on environmental solutions as an integral part of responding to climate change.

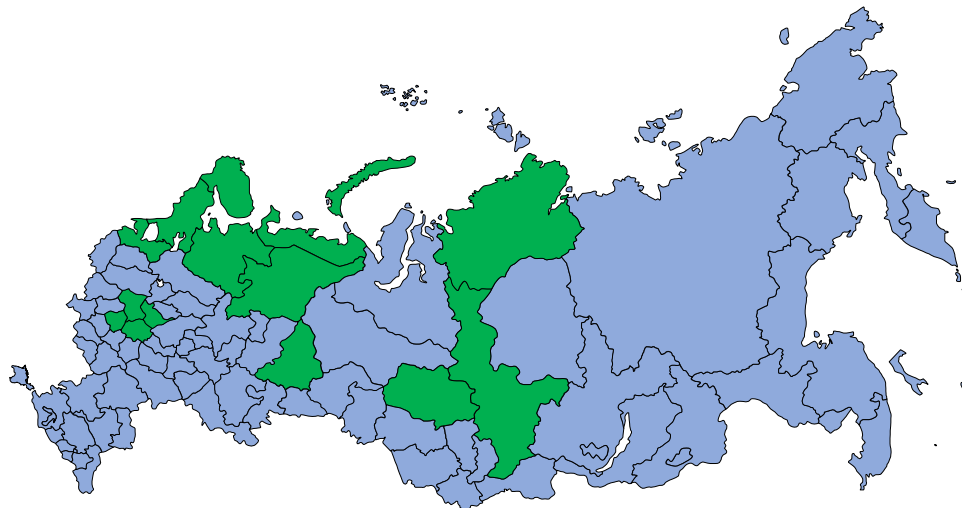


Best Available Techniques and Professional Training

10

Best Available Techniques and Professional Training

- Moscow
- Moscow Region
- Saint-Petersburg
- Leningrad Region
- Vladimir Region
- Ryazan Region
- Nenets Autonomous Area
- Republic of Karelia
- Arkhangelsk Region
- Murmansk Region
- Komi Republic
- Krasnoyarsk Territory
- Sverdlovsk Region
- Kaliningrad Region
- Tomsk Region
- Tula Region



Training and Professional Advancement

Professional Advancement and Training are the necessary and integral parts of the implementation of BAT principles in the Russian Federation and an important stage in all international BAT-related projects. By hosting international seminars, webinars and specialised trainings, we not only build professional community that knows how to use the BAT tool to improve industrial environmental and resource efficiency, but also exchange experience with countries and organisations - leaders in implementation of BAT principles into regulatory framework.

Over the past five years, EIPC trained over 800 industry practitioners, experts, employees of higher educational institutions, non-profit organizations and industrial associations, and plans to expand the list of programmes and train students on BAT concept and its implementation at the Best Available Techniques and Regulatory Practices Department of the Russian Technological University MIREA.

EIPC developed and received national scientific approval for 3 main training programmes:

1. Best Available Techniques and Integrated Environmental Permits
2. Modern Industrial Management Systems and the Best Available Techniques
3. Reducing Industrial Impact on the Climate and Adapting to Climate Change.



Best Available Techniques and Professional Training

10



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