

Best Available Techniques: Voluntary Expert Conformity Assessment of Russian Industries

A.A. Volosatova¹, FSAI Research Institute Environmental Industrial Policy Center (FSAI RI EIPC), a.volosatova@eipc.center

T.V. Guseva¹, FSAI RI EIPC, Prof. Dr., tatiana.v.guseva@gmail.com

D.O. Skobelev², FSAI RI EIPC, Dr. (Ec.), training@eipc.center

¹ Deputy Director, Moscow, Russia

² Director, Moscow, Russia

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key words

expert assessment, Best Available Techniques, competence, technical report, resource efficiency, environmental performance, green investments

The article substantiates the necessity for the development of voluntary conformity assessment of Russian industries to the established requirements of the Best Available Techniques (BAT). Authors emphasize that the voluntary assessment is an integral part of the decision-making system for working out and implementing projects aimed at the enhancement of resource efficiency and environmental performance of production processes (including green projects).

National standardization system documents in the field of the BAT is being systematically improved. In this regard, the preparation of a national standard for the development of technical reports (conformity assessment reports) is a necessary step for the development of a methodological base in the field of the Best Available Techniques. The BAT potential as a category of sustainable industrial development has not yet been fully realized. Each information and technical reference book and national standard is intended to become a document that will help both the regulated community and interested parties to use the principles of the BAT for technological renewal of industry and increase resource and environmental efficiency of production.

References

- Skobelev D.O., Uchenov A.A. Potentsial primeneniya kontseptsii nailuchshikh dostupnykh tekhnologiy dlya prinyatiya resheniy o gosudarstvennoy podderzhke real'nogo sektora rossiyskoy ekonomiki v usloviyakh global'nogo energoperekhoda [The potential of applying the concept of the Best Available Techniques for making decisions on state support for the real sector of the Russian economy in the context of a global energy transition], *Ekonomika ustoychivogo razvitiya*, 2021, no. 4(48), pp. 168–179.
- Voronina A.A., Preobrazhenskiy B.G., Sirotkina N.V. Nailuchshie dostupnye tekhnologii kak instrumenty snizheniya negativnogo vozdeystviya na okruzhayushchuyu sredu: pravila i kriterii vybora [Best Available Techniques as tools for reducing negative environmental impacts: rules and selection criteria], *Region: sistemy, ekonomika, upravlenie*, 2019, no. 1(44), pp. 193–197.
- Komlatskiy V.I. Nailuchshie dostupnye tekhnologii kak element ekologicheskoy modernizatsii svinovodstva [Best Available Techniques as an element of ecological modernization of pig breeding], *Politematicheskii setevoj elektronnyy nauchnyy zhurnal Kubanskogo gosudarstvennogo agrarnogo universiteta*, 2017, no. 126, pp. 582–599.
- Federal Law of 10/01/2002 N 7-FZ On Environmental Protection.
- Dijkmans R. Methodology for Selection of Best Available Techniques (BAT) at the Sector Level, *Journal of Cleaner Production*, 2000, vol. 8(1), pp. 11–21.
- Skobelev D.O. Sistema otsenki nailuchshikh dostupnykh tekhnologiy kak instrument realizatsii ekologicheskoy promyshlennoy politiki Rossii [The system for assessing the Best Available Techniques as a tool for implementing the environmental industrial policy of Russia], *Vestnik Tverskogo gosudarstvennogo universiteta. Seriya: Ekonomika i upravlenie*, 2019, no. 2, pp. 141–148.
- RF Government Decree of 21/09/2015 N 999 On the interdepartmental commission for reviewing ecological efficiency improvement programs (together with the Regulations on the interdepartmental commission for reviewing ecological efficiency improvement programs).
- RF Government Decree of 13/02/2019 N 143 On approval of the rules for considering applications for obtaining integrated environmental permits, issuing, reissuing, revising, revoking and amending integrated environmental permits.
- Hjort M., Skobelev D., Almgren R., Guseva T., Koh T. Best Available Techniques and Sustainable Development Goals, *Proceedings of the 19th International Multidisciplinary Scientific Geo Conference SGEM GREEN 2019*, 2019, vol. 6.1, 0,75/0,30, pp. 185–192.
- Federal Law of 31/12/2014 N 488-FZ On Industrial Policy in the Russian Federation.
- Bobylev S.N. *Ekonomika ustoychivogo razvitiya* [Economics of sustainable development], Moscow, *Knorus*, 2021, 672 P.
- Porfir'ev B.N. Ustoychivoe razvitiye, klimat i ekonomicheskii rost: strategicheskie vyzovy i resheniya dlya Rossii [Sustainable development, climate and economic growth: strategic challenges and solutions for Russia], St. Petersburg, *Sankt-Peterburgskiy gumanitarnyy universitet profsoyuzov*, 2020, 40 P.
- Potocnik J., Teixeira I. Resource Efficiency for Sustainable Development: Key Messages for the Group of 20, Nairobi, *UNEP*, 2018, 46 P.
- RF Government Decree of 26/02/2022 N 243 On approval of the rules for providing subsidies from the federal budget to Russian organizations to compensate part of the costs of conducting research and development work on modern technologies as part of the implementation of innovation projects by such organizations and on recognizing invalidated some acts of the RF Government.
- RF Government Decree of 30/04/2019 N 541 On approval of the rules for providing subsidies from the federal budget to Russian organizations to reimburse part of the costs of paying coupon yield on bonds issued as part of the implementation of investment projects for the implementation of the Best Available Techniques, and (or) to reimburse part of the cost of paying interest on loans received in Russian credit institutions, as well as in international financial institutions established in accordance with international agreements in which the Russian Federation participates, for the implementation of investment projects to introduce the Best Available Techniques.
- RF Ministry of Industry and Trade Order of 29/04/2021 N 1561 On the expert council for conducting a feasibility study of investment projects for the introduction of the Best Available Techniques at facilities that have a significant negative impact on the environment and are related to the areas of application of the Best Available Techniques, in accordance with criteria for classifying objects that have a negative impact on the environment as objects of categories I, II, III and IV of Russian organizations implementing these investment projects with the attraction of funds received from the placement of bonds, or with the attraction of loans.
- RF Ministry of Industry and Trade Order of 29/04/2021 N 1563 On approval of the methodology for conducting a feasibility study of investment projects for the introduction of the Best Available Techniques at facilities that have a significant negative impact on the environment and are related to the areas of application of the Best Available Techniques, in accordance with the criteria classifying objects that have a negative impact on the environment as objects of categories I, II, III and IV of Russian organizations implementing these investment projects with the attraction of funds received from the placement of bonds, or with the attraction of loans.
- Gasho E.M., Stepanova M.V. Nailuchshie dostupnye tekhnologii: gotovnost' k izmeneniyam [Best Available Techniques: ready for a change], *Vestnik Rossiyskogo khimiko-tekhnologicheskogo universiteta imeni D.I. Mendeleeva: Gumanitarnye i social'no-ekonomicheskie issledovaniya*, 2016, vol. 2, no. 7, pp. 101–113.
- Guseva T.V., Malkov A.V., Molchanova Ya.P., Begak M.V. Spravochnye dokumenty po nailuchshim dostupnykh tekhnologiyam: perspektivy ispol'zovaniya predpriyatiyami khimicheskoy promyshlennosti [Reference papers on Best Available Techniques: perspectives for the chemical industry], *Khimicheskaya promyshlennost' segodnya*, 2010, no. 2, pp. 6–17.
- Kondrat'eva O.E., Roslyakov P.V. Basic Stages in the Introduction of Systems of Continuous Monitoring and Measurement of Discharges into the Atmosphere from Thermal Electric Power Stations, *Power Technology and Engineering*, 2017, vol. 51, no. 1, pp. 71–75.
- Federal Law of 29/06/2015 N 162-FZ On Standardization in the Russian Federation.
- GOST R 113.00.03–2019 The Best Available Techniques. The structure of the information and technical reference.
- ISO 19011:2018 Guidelines for auditing management systems.
- Costantino F., Di Gravio G., Tronci M. Environmental Audit Improvements in Industrial Systems Through FRAM, *IFAC-PapersOnLine*, 2018, vol. 51, no. 11, pp. 1155–1161.
- Skobelev D.O., Volosatova A.A. Razrabotka nauchnogo obosnovaniya sistemy kriteriev zelenogo finansirovaniya proektov, napravlennoy na tekhnologicheskoye obnoveniye rossiyskoy promyshlennosti [Development of a criteria system's scientific substantiation for green financing of projects aimed at the RF technological renewal], *Ekonomika ustoychivogo razvitiya*, 2021, no. 1(45), pp. 181–188.
- Bakurova E.Yu., Molchanova Ya.P. Otkrytaya nefinansovaya otchetnost', nailuchshie dostupnye tekhnologii i ekologicheskaya rezul'tativnost' kompaniy [Open non-financial reporting, Best Available Techniques and environmental performance of the companies], *Vestnik Rossiyskogo khimiko-tekhnologicheskogo universiteta imeni D.I. Mendeleeva: Gumanitarnye i social'no-ekonomicheskie issledovaniya*, 2021, vol. 2, no. 12, pp. 103–115.
- GOST R 56828.5–2015 Methodological recommendations on the procedure for using the information and technical reference book on the Best Available Techniques in assessing the impact of planned (planned) economic and other activities on the environment.