

THE MAIN CHALLENGES FOR THE DEVELOPMENT OF ENERGY COMPLEX ENTERPRISES

Ugur Turan

*National technical university «Kharkiv Polytechnic Institute»,
Kharkiv*

The main prerequisite for the innovative activity of an energy complex enterprise is that everything that exists is aging. Therefore, it is necessary to systematically discard all that has worn out, become obsolete, become a brake on the way to progress, and also take into account errors, failures and miscalculations. To this end, enterprises periodically need to certify products, technologies and jobs, analyze the market and distribution channels. In other words, an original roentgenogram of all aspects of the enterprise's activities should be conducted. This is not just a diagnosis of the production and economic activities of the enterprise, its products, markets, etc. On its basis, leaders should first think about how not to make their products (services) morally obsolete, and not wait until it is done by competitors. Technical development of power engineers should provide for increasing the reliability of equipment, saving resources and costs, obtaining additional profits, improving the industrial safety of technological processes and equipment. Energy is the main source of global greenhouse-gas (GHG) emissions and if no further action is taken beyond measures already implemented and announced, the world will fail to achieve the objectives of the Paris Agreement on climate change. Energy is also the principal source of air pollution linked to severe human health impacts. Today, premature deaths from outdoor air pollution are estimated at around 3 million a year, and are set to rise to more than 4 million if no further action is taken [1]. In order to maintain the constant development of the enterprise and the possibility of carrying out changes, it is also necessary to constantly invest in these processes. Without investing, the enterprise will not be able to conduct effective innovative activity and, accordingly, increase its level of competitiveness. For the successful implementation of innovation and the overall operation of the enterprise, the flexibility of the enterprise, the ability to quickly change the direction of its activities in accordance with the demand in the market of goods and services is of no small importance. The enterprises of heat power industry in general and the TPPs of PJSC "Centrenergo" in particular, which turn coal into clean types of energy and quite naturally due to technological specifics of production lead to negative impact on the environment, are among the main sources of environmental pollution. Of all their harmful effects on the environment, exposure to atmospheric air due to emissions from flue gases from boilers of greenhouse gases, mainly carbon dioxide, and pollutants (sulfur dioxide, nitrogen oxides, ash, etc.) is the most widespread and dangerous. Therefore an increasingly competitive environment can lead to considerable problems for many organizations of energy systems. As a result, they fail to create the conditions that can lead to sustainable development over the long term perspectives.

References:

1. Laura Cozzi, World Energy Outlook 2017, released on 14 November.