Risks in the energy sector: analysis the practices of management

(for example, vertically integrated companies)

Yulia V. Zhilkina

JSC "FGC UES", Moscow, Russia zhilkina.yulia@gmail.com

Energy security is today one of the most discussed in international economic relations, the Russian political and business community, the regions and all consumers. It is being actively discussed by European governments, leading international organizations. But it should be noted that currently no universal definition of energy security is simply not there. In addition to the lack of such a universal definition, analysis of decisions in this area, one notices the lack of attention to such phenomena as risks in the energy sector, especially in the management of investment projects in the industry.

Risk analysis, in our opinion, a multifactorial phenomenon. First of all, it takes some refinement of the concept of "risk". In the study, the correlation of uncertainty, risk and loss.

Uncertainty	\rightarrow	Risks	\rightarrow	Loss
Incompleteness		Possibility of losses		Damage loss in
or inaccuracy of		due to the uncer-		connection with the
information about		tainty		occurrence of the
conditions of re-				risk event under
alization of the				uncertainty (loss
project				of funds working
				time, loss of profits,
				rising costs, envi-
				ronmental damage,
				etc.)

Risk assessments should consider individual risk tolerance, which is described by curves of indifference or utility. Therefore, it is recommended to describe the risk of the above three parameters:

$$Risk = \{P * L * Y\}$$

Analysis of project risks is based on risk assessments, which are to identify the magnitude (degree) of risk. But first we need to have an understanding of the risks, i.e. to know their classification, classification of risks in business and system factors influencing the level of risk IE.

Risk analysis is conducted from the point of view:

- sources, causes of this type of risk;

2 Yulia V. Zhilkina

- the likely adverse consequences resulting from a possible implementation of this type of risk;
- specific projected activities, minimize risk to consider.

Risk management is a specific area of management that requires expertise in the field of the theory of an industry, company, insurance, analysis of economic activities of the enterprise, mathematical optimization techniques, economic problems, etc.

World experience shows that there is no one right organizational structure. You need to choose the governance structure that is adequate to the current economic conditions of functioning of the company and allows it to achieve its goals. In any structure, you can focus on decentralization of powers, allowing the managers of lower levels to make decisions. The decentralized structure is recommended if the company has access to dynamic markets, diversified production, competitors and rapidly changing technology. Methods of project risk management in the electric power industry can and should become a means of effective implementation of projects at all levels of government – Federal, regional, and local. It is hoped that the problem of minimizing the risks in the energy sector will be reflected.