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THE NUCLEAR ENERGY PERSPECTIVE IN THE SIXTH TECHNOLOGICAL WAVE

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This topic is interesting for consideration, because not so long ago the first Belarusian Atomic Power Station was built. Now Belarus is a nuclear country and all global processes affect our country in this sphere.

Firstly, some words about the period and meaning of sixth technological wave should be said. It was started approximately in 2010 and will become a worldwide fact about 2040. This new period of technical life is characterized by nano-technology, gene engineering, micromechanics, artificial intelligence, new organization in social and economical life and power efficient of mass production. The importance of electrical energy will grow from year to year, so people need a reliable source of this “blood of industry”. From one hand we must take care about environment and use renewable source of energy, but from another hand, this way is not effective enough to meet the needs of new technologies. So, nuclear power is recognized as a “green energy” even in some European countries. Secondly, we would try to understand, why people look at this “dangerous” and “non-ecological” energy from a new angle now. They can be placed in the desert or in the rainforest, in a cold or a hot climate. People don’t have to change relief for atomic station in such a global way, as for hydro-electric power station. And the last, but not the least reason is reduction of carbon dioxide release. Atomic energy consumes 1 kg of Uranus instead of 100 tons of coal or 60 tons of oil at a Central Heating and Power Plant. But there is a huge disadvantage – the need to utilize nuclear waste. This sphere is still not so clean from the environmental point of view. To make a conclusion let’s look through statistics: at the present time 441 nuclear plants work in the world, 53 plants are under construction and 106 are in plans. So, despite the protests of some eco-activists, nuclear energy is still one of the most perspective ways of getting power for a developing industry.