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WIND POWER PLANTS IN THE SOUTH OF UKRAINE

The aim: present and reveal the potential of wind power in Ukraine.

Wind power - is energy of the future. Wind power is absolutely better than all other types of energy production. And scientist all over the world one hundred percent sure that wind power can easily replace all traditional energy production which we know today.

Moreover, there are plenty of conclusive proof facts. First of all, wind power is eco-friendly and non-polluting environment source of energy. Secondly, it's generally easy in power generation. And finally, it's unbelievably cheap.

Not surprisingly the wind power electric stations are widely used in number of European countries, such as France, Germany, Sweden etc. And in addition to Europe wind power stations are also common in the United States and China. And our country - Ukraine is no exception.

Ukraine's renewable energy market becomes ever more important, especially with the steep increase in gas price and the adoption of green-tariff price incentives for electricity from renewable energy sources in 2009. The government set a green tariff for power produced from renewable sources which is two times higher than the wholesale price for power produced from traditional sources. It is widely expected that the introduction of the green tariff will boost activity in the sector.

About 50% of Ukraine's territory is suitable for installation of wind power plants and commercial generation of electricity from wind. In particular, the prospective regions are the Black Sea coast, the southern steppe regions, and the Carpathian Mountains. Some researchers believe, Ukraine is among the top-four

European countries, most suitable for generating electricity from wind. In the medium term, it is possible to develop power of about 5,000 MW of wind energy, that is, 20-30% of total electricity consumption in the country.

The dynamics of alternative energy sources development in Ukraine remains positive several years in a row – in 2018 output of newly introduced energy producing facilities reached 257 MW which is 2,1 times higher than last year.

Wind energy sector is growing much slower than that of solar – during last year the output capacity of Ukrainian wind power stations increased by 27 MW having reached 465 MW in total. It's explained by the fact that the price of wind-generated energy is several times higher than of that generated by solar power stations. Wind power stations are more complicated to install and require special maintenance. Furthermore, wind power sector is more regulated than the solar energy sector.

Today we have 6 active wind plants in our country: 6 in Crimea, 1 in Zaporizhzhya district and 1 in Donetsk district. And therefore in construction there are two wind-power stations in Odessa and Primorsk that will become the largest in the east of Europe.

Conclusion: The Ukrainian is convinced that there is a large untapped potential of renewable energy in Ukraine. Prospects for the use of renewable energy sources are associated with their environmental cleanliness, low operating costs and the expected fuel deficit in the traditional energy.

I am sure, Ukraine could get more of its energy from environmentally-friendly sources in future. Government ministers want 15 percent of Ukrainians energy to come from renewable energy sources by 2030. And I think that this is quite feasible.