

**MODULE 4****Introductory video to Wind Energy for Local Development****Energy online course (Module 4, part 2)****Videoscript**

Hello everyone,

I am Petru Gabriel Puiu from „Vasile Alecsandri” of Bacau. I work in the Power engineering and Information Technology Department of this university. I will try to be with you throughout the chapters 2,3,4 and 5, so at the end of this module to be all satisfied with the the carried work.

Since the oldest times, the wind was a power resource used in various fields of activity, from maritime to agriculture (pumping water) and grist (grains wind mills). Nowadays, the wind power is transformed in electrical power, with a minimum impact on the environment.

Looking at general, the wind energy is increasingly being championed as a new source of jobs and plays an important role in energy security and climate change.

From this perspective, the study of wind energy, along with photovoltaic and biomass energy, small wind turbines (SWT) are solution for energy production to ensuring energy independence, but every time it is necessary to solve the cost problem to substantiate the investment decision of households.

SWT offers a number of advantages including energy independence, or possibility to change the power supplied in the network by the the owners of wind plant in rural areas with food for animals.

The economic efficiency of a turbine depends in a great measure on the average wind speed, the statistics distribution of speed and intensity of turbulences. There is the possibility of efficient use of wind power through elaborating some methods of shaping the power of wind.

The new technologies technology combines advanced power and weather computer modeling, sophisticated cloud imaging, sky-facing cameras, and on-site sensors to accurately predict solar power and wind energy output and increase the amount of renewable electricity. All these issues and others will be addressed during these chapters

I hope that the information presented to be clear, so in the end to have a clear view of wind energy that will allow resolving the proposed study cases.

To ensure the success of your effort just to have patience to going through the entire material, so I wish you success!

So patience and success!

All the best and see you well.