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Unit for aeolian production in Dobrogea Region, Romania

SC SPIRU ELECTRA SRL company was founded in 1992. As a performer certified by the **Romanian Energy Regulatory Authority from Bucharest** in the field of designing and achieving electrical installations of low and average tension, our company occupies a top position in the beneficiaries' preferences, registering a positive trend on the regional market through the report quality – price.

Considering our location in South-East Region of Romania, Dobrogea is one of the best regions in Romania for catching aeolian energy. Subsequently we decided to expand our activity in the field of producing electrical energy from renewable sources.

Promoting production of electrical energy from renewable sources represents an imperative of current period of time, motivated by: environment protection, increasing energetic independence against imports by various purchasing sources, and also economic and social cohesion reasons.

Directive no. 2001/77/CE of European Parliament and Council regarding promoting electrical energy produced by renewable sources on the internal market, represents the first concrete action of the European Union to reach obligations to reduce gas emissions global warming that they committed to through the ratification of Kyoto Protocol.

Romania was between the first candidate countries to European Union that transposed, in its own legislation the stipulations of Directive 2001/77/CE (Government Decision no. 442/2003, modified by Government Decision 958/2005) and established 33% as an orientate target for 2012 year, representing the weight of electrical energy from renewable sources in internal home consumption of electrical energy.

Based on all these arguments we decided to purchase for the beginning a new aeolian plant, produced in Germany, with an installed power of 850 KW, that is going to be located on Tulcea county territory.

After studying technical specifications for several types, we chose this plant because it best corresponded to our requests considering environment working conditions.

For the beginning we want to install units of aeolian production totalising 1 MW installed power. We would like to place it in Tulcea county. We still don't know the location. We would like it to be on delta littoral, at Sf Gheorghe. But we need a study in this regard.

For the beginning we contacted Environment Protection Agency – Tulcea and we asked them to give us all information about law protected natural

areas in Tulcea county, They gave us this information. Based on this, in the first stage we are going to contract a study based on measuring wind speed in certain possible areas that allows us to decide the right location for this objective.

Choosing location will play a very important role as 90% of the success in such projects depends on the correct placement on the aeolian plant. Presently we are doing negotiations with an organization able to achieve this intended study.

We are aware of the fact that putting only one turbine is not efficient. There are fixed costs independently of turbines' number. So we could do the project for several turbines and thus we will be able to attract investors.

The study for choosing location involves the same costs regardless on turbines' number.