

## **"The Social and Economic Impact of Rural Wind Farms"**

### **Personal Information:**

I am active in renewable energies for more than 30 years. Own activities and the development of other inventors and designers were always critical evaluated. I put down my knowledge of today. I am living in the north of Germany with hundreds of wind generators around.

### **Availability:**

Wind generators create only energy when wind is blowing. The power of the generators varies with the third power of the wind velocity. Energy from wind is therefore unsteady and unreliable and often zero. Wind energy is not suitable for the national grid. It can only be used for local equipment, which may only run, when the wind is blowing. Water pumps are a good example.

### **Costs:**

Electric energy directly from wind generators costs in Germany 8 – 9 Euro-Cent per kWh. You create much higher costs, when you give wind energy into the national grid. You need aside a steam power plant with the same power, which must take over, when the wind calms down. This is a double investment.

### **Climate impact:**

Higher CO<sub>2</sub> contents in the atmosphere have no significant impact to the earth temperature. The IPCC statements are wrong. There is no physical prove of the CO<sub>2</sub> impact. You can prove that the influence of mankind to the geological activities is more than small.

### **Environment:**

Wind parks destroy the landscape. The wings kill hundreds of birds over the year. Especially the migrating birds suffer. Ground breeding birds are afraid of the moving shade and move to other places. Moving shades and infra sound unease men and even leads to illness for those living in the neighbourhoods.

**I cannot find any reason to built wind parks. It is a loss for every body.**

Hans-Günter Appel