



Wind Turbines on Land

11 Wind Turbines Cover the Entire Electricity Consumption on Samsøe

Background

Ambitions were to cover 75% of the future electricity consumption on Samsøe with the production of land based wind turbines. In the process of fulfilling these ambitions, the Municipality of Samsøe and the County of Århus presented priorities together with alternative sites for fifteen 750kW wind turbines.

Involving the Locals

Public meetings showed support for the goals and priorities, and a great deal of involvement and interest in the ongoing planning. The authorities' priority pointed towards formation of groups of turbines as alternative to individual turbines. In two of the areas planned for, in Besser and Kolby, local resistance against wind turbines was uttered.

It was difficult to reach the 75% goal because of the local resistance. However, the problem was solved due to a change of procedure by the County. The authorities allowed the erection of 11 one MW turbines with the height of 77 meters compared to the usual limit of 60 meters.

In the year of 2000 three groups of wind turbines were erected at Tanderup, Permelille and Brundby. The group at Tanderup is counting 3 turbines just as the one at Permelille, whereas the one at Brundby counts 5 turbines. All wind turbines referred to are Bonus turbines. They all have the same dimension and colour.

Ownership

The 11 turbines make an overall investment on roughly 9.5 million Euro. Two out of the eleven turbines are owned on community basis, split in 5,400 shares and owned by 450 investors. The remaining 9 turbines are owned individually by farmers.

Community Renewable Energy Foundation

Seven of the individual owners of wind turbines together with the co-operative have established an energy foundation in co-operation with Samsøe Energy- and Environmental Office. The owners pay a little less than 1,000 € each a year per windturbine in the five years when the guarantee concerning the electricity price is running.

The collaboration between the foundation and Samsøe Energy- and Environmental Office shall then be re-negotiated. The foundation is to be used to support new renewable energy initiatives on the island.

