

Farming Case Study

Higher Lipton Farm



Project

Installation of an Iskra AT5-1, 5kW turbine at a farm in Totnes, Devon, providing power to the farm and house.

“In the first year, the Iskra generated almost 15Mwh of energy, far more than we expected. I wouldn’t mind having a whole field of them.” William Barons, Farm Owner.

Details

Segen conducted a site survey to view possible locations, identifying a suitable site in a field, 80 metres from farm buildings with an average annual wind speed of around 6.3m/s. Segen recommended the Iskra turbine mounted on a 12m free standing tower.

Segen provided assistance with the planning application and was responsible for installation and full commissioning of the Iskra turbine. In the first year since commissioning, the Iskra has generated almost 15Mwh of energy, 3MWh more than the estimated output. “It is a very good site with a good clear wind flow, enabling the Iskra to perform exceptionally well,” explained Segen’s Mike Reynolds. “The owner is getting a good return for his £20,000 investment.”

The power produced is used on the farm and for domestic use. “Our property runs solely on electricity, with no oil or gas,” explains William Barons. “During the winter we use all the power the Iskra produces, under floor heating and so on. During the summer we export the power, with Npower pay us for 60% of everything we produce.”

Key Features

Technology:	Iskra AT5-1 Small Wind Turbine
Installation Size:	5kW
Tower size:	12m, free standing
Forecast electricity generation /year (MWh):	11.9
Actual electricity generation/year (MWh):	15
Type of project:	Farming
Commissioning date:	March 2008
Forecast CO2 saving/year (kg):	6,450

