



Award Winning Dairy Farm, Lawrence Doody and Sons LLC Installs a Single Phase E3120 Turbine



KEY HIGHLIGHTS

- Edward Doody operates a 400 cow dairy farm and is protecting his farm against escalating energy costs with an E3120 50kW wind turbine
- First week of production: 2,000kWh
- “Our neighbors are happy to see it and many honk their car horns as they drive by, and we regularly have passersby take pictures.” - Edward Doody, owner of E3120 50kW on his farm

Lawrence Doody and Sons LLC, a dairy farm operation in Tully, New York, recently installed an Endurance E3120 single phase wind turbine. The farm, founded in 1949 by Lawrence and Avis Doody, is now owned by their son Edward and his two brothers Kevin and Rich. Edward and his mother, Avis, realized some time ago that energy costs in the state of New York were steadily increasing, their energy costs are one of the highest per kWh in the country. Currently, the Doody Farm consumes approximately 15,000 kWh per month. Lighting and heating for 400 cows, plus the essential milking process, consumes most of their energy requirements.

Edward and his family have made sustainability a priority in several ways. They installed and utilize a drag-hose manure injection system, employ strip cropping and tilting techniques,

and implemented grass water management practices. In 1980, the farm won acclaim when the US Department of Agriculture's Soil Conservationist Service conferred upon it the County Level Conservationist Award for preserving the delicate and highly erodible soils that surround the farm. For Doody, the next logical step on the journey toward sustainability would be the installation of a wind turbine. Not only would it secure the family from rising energy costs, it would also fit with their model of conservation for sustainability and be environmentally friendly.

After attending an open house hosted by Cazenovia Equipment Company (CEC) in April 2010, Edward discovered that the farm's site had one of the highest wind regimes among all the attendees – 12.4 m/s, and an annual average wind speed of 5.58 m/s. Edward contacted Mark Ferrara, Project Manager at CEC, to discuss the purchase of a wind turbine for his farm. According to Mark, an Endurance E3120 50kW wind turbine would be the best match in terms of productivity, based on the Doody Farm's energy consumption. The Doody Farm has a single phase electricity supply and the E3120 is the largest single phase wind turbine on the market, hence a great fit. Edward, who has worked with CEC for over 40 years and trusted the reputable brand under the John Deere network, knew he was in good hands with respect to the installation of his turbine, and therefore was receptive to Mark's suggestion that he install an E3120. Regarding his relationship and appreciation of Mark's efforts with the commissioning of his turbine, Edward states, **"Mark was a professional all the way through. He**



is knowledgeable, really up to date in terms of technology, and I was really impressed."

When Mark discussed the various incentives available to Edward through the US Federal Government and the State of New York, Edward knew that purchasing a wind turbine would be the next best thing he could do for his farm. From the outset, Edward's mother, Avis, was all for the wind turbine. In fact, the 84 year-old regularly checks the Endurance Remote Interface Centre (ERIC – an online tool that shows real live energy production of Endurance turbines) for the Doody Farm turbine's energy production.

CEC arranged the commissioning of Doody's turbine on September 25th 2012, and within its first week it

produced 2,000 kWh. NYSERDA, the New York State Energy Research and Development Authority, funded 35% of Edward Doody's turbine project. Edward is currently awaiting approval for an additional 30% in funding from the 1603 Federal Tax Credit through the US Federal Government.

Since the installation, Edward Doody has been **"very pleased with the E3120"** and goes on to say, **"our neighbors are happy to see it and many honk their car horns as they drive by, and we regularly have passersby take pictures."** The Doody's are thrilled with the installation of their turbine, and look forward to energy production well into the 100,000 kWh range in the coming year, with projections based on their 5.58 m/s average annual wind speed. Now that is green energy in action.