



Ten Year Environment Impact

In the ten years (June 1997 to June 2007) our little project has produced 1,649,510 kwh of electricity. Of that we have used 1,170,688 kwh. This equates to an average yearly savings of \$16,224.59. We have sold back or I say “given” to the utility an average of 53,202 kwh per year. Why do I say given back? For example I will use this year costs for an explanation. We paid 9.14 cents to the utility for our power. We were paid 1.47 cents for the power we put back on the grid. This means that the company that produces power made a “killing” in that they could turn around and sell that power for a much higher rate at no production cost. We are serviced by a rural electric coop and our provider is in the process of changing electrical producers from which they buy their power. We are hoping for a much better payment in the future.

What has been the environmental impact of our little project? Mr. Bradley G. Stevens, P.E. and research manager at the Energy and Environmental Research Center at the University of North Dakota, calculated the impact of our project.

“...your turbines have **offset approximately 1841 tons of CO₂**. This would be equivalent to the annual CO₂ emissions of approximately **310 passenger cars** or CO₂ uptake of **300 to 1800 acres of trees**. In addition, wind generation at Sacred Heart offset the emission of approximately **7 tons of SO₂ and 4 tons of NO₂**.”