Project Summary/Abstract

Project Title: Wind Generation of Electricity for Non Grid Use.		
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NEO ADV RENEW. PROJECT SUMMARY/ABSTRACT

This project encompasses the selection, installation, and operation of three roof top mounted vertical vane wind power generators by Design Plastics, Inc. The units will be the latest technology available and representative of a range of power between 3 and 15 kW. The electricity from the units will be used in a manner different from commercially available systems, in that the power will be used to directly drive a resistance load primarily for heating. This will supplement existing internal heating capacity of both air and or water

The expected average output of the generators is approximately 5,500 kWhrs. per year for a total of 16,500 kWhrs. annually. Based on 1kg. of greenhouse gasses created for each kilowatt hour generated this will avoid 16,500 kWhrs. of greenhouse gasses each year.

This project will not only generate power but it will also generate working data with respect to the rate of return for a retail consumer based wind generation system. If we can establish a reasonable payback period for a $5,000 to $10,000 retail wind generator, then we plan to manufacture a wind power generation system here in Nebraska at Design Plastics, Inc. This endeavor would create as many as 11 full time jobs and the units sold would produce an ever growing amount of non grid power capacity.