

PROPOSAL TO THE WORLD BANK

In our world today, few organizations offer as much to help fight poverty as does the World Bank. For the past few years, as we recognized the potential need to offer our technology to areas outside of the United States, we also understood that there are many regions around the world that would not have the financial resources to purchase any type of clean energy producing equipment.

We knew that the mission of the World Bank is the reduction of poverty. However, we learned about the additional programs that relate to environmental issues, as well as the production of clean, renewable energy. But of special interest to us was the concept of promoting foreign investment and international trade, and to facilitate capital investment in some of these extremely poor nations. We then understood that the World Bank didn't just hand out money.

PARTNERSHIP

Three years ago, we had the great opportunity to meet a gentleman that was not only from Nigeria, but had indeed brought in foreign investment, as well as international trade and capital investment to his country.

VanNatta
worldwide



VanNatta Worldwide Global Outreach

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We would like to have the assistance of the World Bank in achieving our goal of pollution-free disposal of solid waste and other materials, and to produce new sources of renewable energy.



We first met at his beautiful home in a suburb of Chicago, and we saw his vision for Nigeria, and in fact, all of Africa. His name is Raphael Udeogu, a long time executive with Motorola for operations in Africa. Along with our Director of International Operations, John Bernas, we are excited to announce a new program called: *energy Nigeria Project*.

THE PURPOSE BEHIND THE ENERGY NIGERIA PROJECT

The goal of this program is to not only offer clean, renewable energy to remote villages and regions of Nigeria currently without any electric grid network, but to also offer humanitarian aid. We plan to put the resources of VanNatta Worldwide directly into the areas where they will do the most good.

Our proposal is simple. We would like to have the assistance of the World Bank in achieving our goal of pollution-free disposal of solid waste and other materials, and to produce new clean sources of renewable energy. At the same time, we would like to be able to offer, through our own financial resources as well as trained staff (including medical personnel), the chance to reach out to these many villages and remote locations in conjunction with any efforts currently in place by the World Bank.

Following is a further description of our technology and why we feel that this is an important program for people all around the world.

VanNatta Worldwide Global Outreach / energy Nigeria Project

- 1. Description of what the product does, how it's different from what's currently out there:** Simply put, we offer a micro power generation facility, that in its entirety is different from what is available now because of the size, efficiency, and output of electricity. We can produce between 6 and 12 megawatts (MW) of electricity all inside of a 15,000 to 30,000 square foot building. We are also different based on the cost per unit of electricity generated, and in fact, are about 1/4th of the cost of wind turbines and solar panels. Our advantage is that we also have a secondary purpose or benefit, which is that we also destroy waste materials, and can be considered what is known as base load power generation, not hampered by external issues such as weather. Our technology, the heat source, is a thermal vortex chamber that burns shredded waste material in full suspension, where it not only becomes its own fuel, but also does not produce fly ash, bottom ash, smoke, fumes, or harmful pollutants and emissions.
- 2. How/Where is the product used?** – This product can be used with or without energy recovery equipment, and can be used for applications such as: 1) municipal solid waste (MSW), or the collected trash from residences and commercial locations; 2) woody biomass, or the waste material from forest thinning, residential yard waste; 3) agricultural waste such as corn stalks and sugar cane; 4) landfills or landfill reclamation; mobile applications such as emergency clean up with options for generating smaller amounts of electricity to offset power outages; 5) medical waste; 6) waste coal, or the residual coal with a high sulfur content (3%), which can't be processed using conventional coal burning technologies; 7) disposal of scrap tires without producing any harmful emissions, not even smoke
- 3. How would an organization like the World Bank be helpful?** – The World Bank's purpose involves the assistance and support for these developing countries and regions around the world, especially in Africa. This project also encompasses some of the major areas of focus for the World Bank, namely reduction of poverty (its official goal), to introduce technologies that will sustain cleaner environmental programs, and to promote foreign investment, international trade, and to facilitate capital investment.

Woody Biomass to Energy Process

