

## **South Pacific Renewable Energy Project**

### **Our Product**

Maetec has developed a floating ocean wind turbine, or buoy, that produces affordable hydrogen. The buoy captures wind energy and generates an electrical current to promote water electrolysis. This results in the separation of hydrogen and oxygen from seawater. The hydrogen is collected in gas chambers inside the buoy and later transferred to storage on land. The Hydrogen produced will be a source of clean, storable, readily available, renewable energy. Our Hydrogen production is "green" and is not dependent on the use of fossil fuels.

### **What We Intend To Do**

To demonstrate that hydrogen can be affordably produced without the use of fossil fuel, and to demonstrate a commercial application of Hydrogen in a market where it is desperately needed, Maetec intends to produce electrical power for South Pacific island nations utilizing:

1. Our floating ocean wind turbines that will produce Hydrogen,
2. A transfer system that transports the Hydrogen to shore, and
3. Land based generators fueled by Hydrogen that will produce electricity.

### **Electrical Power Production in the South Pacific**

Throughout much of the world, electricity is produced by diesel generators. This is common where it is not practical to us less costly power generation from coal, natural gas, hydroelectric power, nuclear reactors, and land based wind turbines. Diesel power generation is especially common among the South Pacific island nations.

### **Target Market**

Our target market...thirteen island nations and Hawaii...produces approximately \$10 billion of diesel generated electrical power annually. Maetec's system can significantly lower the cost of electrical power and reduce or eliminate dependence on foreign oil. This places us in a unique position to capture a significant portion of this market. We will also pursue opportunities worldwide.

### **Present Position**

The island nation of Tonga has requested that the first Maetec system be erected on one of their islands, with the intention of converting the remaining Tongan islands. Maetec intends to complete a demonstration project on one of the Tongan islands to establish proof of concept by:

1. Fabricating and installing one ocean wind turbine approximately 1500 yards off the coast.
2. Installing a 150 kW Hydrogen fuel cell for the production of electrical power.
3. Installing an underwater transfer line from the wind turbine to the shore.
4. Making the necessary connections from the Hydrogen generator into the existing power grid.