

GREENTECH BUSINESS PLAN  
Turbine Engine Heat Recuperator  
FOR  
DEVELOPMENT  
OF  
RECUPERATED TURBINE

Prepared for

EquityNet

PREPARED BY

David Jollymore, B.Sc.

President

March 2015

GreenElectric Power Group - Confidential

Contents

1. Executive Summary .....	1
2. ORGANIZATION AND MANAGEMENT .....	3
2.1 Organizational Description and Management	
2.2 Ownership	
2.3 Management Team	
3. INDUSTRY AND MARKET ANALYSIS.....	7
3.1 Industry and Market Analysis (Major Influences & Trends)	
3.1.1 Economic	
3.1.2 Technological	
3.1.3 Regulatory	
3.1.4 Competitive (Identify major competitors)	
3.1.5 Barriers to entry (potential roadblocks)	
3.2 Customer Analysis	
3.2.1 Market segment and/or key customers	
3.2.2 Needs and Wants	
3.2.3 Buying Decisions	
3.2.4 Trends	
3.2.5 Competitive Analysis (Customer value versus competitors and /or products & services)	
4 Operational Analysis.....	10
4.1 Current facilities, equipment & Processes	
4.2 Productivity and Capacity Issues	
4.3 Comparison/benchmarks to Industry	
5 OPPORTUNITY /PROJECT .....	14
5.1 Project Description.	
5.2 Purpose & Objectives	
5.3 Applications.....	16
5.4 Implementation Plan	
5.4.1 Project Team	
5.4.2 Timeframe, Milestones	
6 FINANCIAL	
Project Costs and Financing.....	24
Projected Financial Statements .....	25
7 Investment Decision and Risk Assessment .....	26
7.1 Strengths, Weaknesses, opportunities & Threats (SWOT Analysis)	
7.2 Critical Success Factors	
7.3 Key Risks and Mitigation Factors	
7.4 Financial Impacts, Community Benefits & regional Economic Impact	
7.5 Impact On Competition	
7.6 Environmental Impact .....	28

## Executive Summary

One hundred and fifty million gallons of 'waste' glycerin are disposed of every year throughout North America alone – enough gas to power 400,000 homes for 12 months.

Even worse, the 200 million tons of carbon dioxide reduction which could be utilized instead of doing this is more than the reduction of CO2 emissions from many of the carbon offsetting projects of the Kyoto protocol.

In summary, the disposal of glycerin is wasting valuable resources and contributing to climate change.

GLYPOWER TECHNOLOGY LTD (GTL) is incorporated in Canada, and was formed to develop technologies for the generation of electricity for sale to the grid by utilizing novel technologies to capture streams of fuel sources currently being wasted. Consumers or purchasers of distributed electricity include the local distribution lines, the facility where the glycerin is being sourced, and sometimes both.

Market research has shown that there can be ample business profits in turning this biodiesel by-product into an electrical generation fuel.

Utilizing a combination of patentable mechanical technology and proprietary intellectual knowledge, glycerin can be burned ecologically, and with cleaner emissions.

As well, generators used in this application operate more dependably, efficiently, and with enhanced electrical power generation capabilities.

A comparison of the Cost per Watt (installed) of GTL's technology versus other renewable sources of energy shows that it is extremely competitive with even the leading edge of solar, wind and other renewable energy technologies.

GTL conservatively estimates that its manufactured cost per watt is \$1.50 or less. This figure will be even lower with the addition of planned cogeneration technology over time.

Once an electricity generation site is established, it will run as long as there is a fuel supply to feed the turbines – unlike wind and solar which vary in their power generation based on prevailing winds or available sunlight.

GTL expects to implement technology for converting glycerin to electricity on sites totaling more than 20 megawatts in the next 2 years. This will generate upwards of \$17M in gross annual revenue at current electricity rates.

Carbon credits will also be utilized by the company to enhance revenue.

Disposing of glycerin in landfill facilities is a complete waste of a renewable resource, and an unnecessary expense to the operator.

With approximately 200 biodiesel manufacturing facilities in North America, and 4 ethanol sites, the waste disposal of glycerin has become a priority issue for biofuel manufacturing facilities.

GTL will contribute to the reduction of greenhouse gases, causing climate change, through the only viable economic method of eliminating waste glycerin disposal at landfill sites.

In summary, GTL has designed a technology that eliminates the difficulties that many have had with regard to efficient and reliable electricity production from waste glycerin at biodiesel producing sites.

The cost for this technology is extremely competitive with other leading edge renewable sources of energy.

The regulatory environment in Canada provides strong stimulus and incentive for acquiring renewable fuels for electricity production in a growing electricity market.

The management and research team of GTL have both the business and scientific experience to lead this endeavor into productive returns for investors and partners.

GTL has initiated a project to improve efficiency of the recuperator turbine by at least 25 percent and manufacture these machines for installation in North America as a Special Purpose Vehicle, incorporated for this purpose.