The Universal Biomass Solution

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farmtoflameenergy.com
Energy Insecurity

• US electricity grid is vulnerable (see 1996, 2003, 2011 blackouts)
• Connecting the grid via new IOT tech increases vulnerability
• Military bases, hospitals, etc. cannot cope with power outages
Biomass waste ➔ Clean energy

- Biomass generator capable of using ANY feedstock
- Patented smokeless/odorless combustion process
- Designed to withstand cyber attacks
Revolutionary Combustion process

• 100% Smokeless and Odorless
• Low emissions
• Can use any Biomass feedstock

• Combustion process has been patented worldwide
• Farm to Flame Energy Inc. owns exclusive right to use these patents
Target Markets

• North American farms, microbreweries, food processing plants
• Remote communities in Alaska/Northern Canada
• Department of Defense, Department of Energy, hospitals
• African utilities companies/governments
Competition

• Biomass-powered generators are limited to single feedstocks
• Solar/wind generators aren’t reliable off-grid solutions
• Diesel fuel is too expensive in remote communities
• Most electricity grids are at-risk of cyber attacks
Traction

• LOI signed with Kivu Green Energy
• Purchase order in place with SU/Imcon Liberia Foundation for sale of 3 units
• Beta deployment being discussed with NYS microbreweries/farms
• Participation in SU/DoD/VMware/Dell cyberphysical control system proposal being discussed
• Design expected to be completed by November 1st
Commercialization Plan

• Enter North American market by selling beta unit to Upstate NY farm/microbrewery

• Expand into North American market by forming a sales team and targeting remote communities and DoD

• Enter African market by selling first five units to Kivu Green Energy and the Liberian government

• Expand into African market by forming a sales team and targeting more utilities companies and governments
Measurables

• Completion of beta design/bill of materials
• Signing of a lease for a manufacturing facility
• Hiring of at least three team members to work in the manufacturing facility
• Purchase/rental of all required equipment to operate the facility
Team

Chief Executive Officer
• 5+ years of experience with clean tech startups
• Extensive research experience with this combustion process

Chief Innovation Officer
• Extensive experience biofuels/combustion experimental research
• Graduate student at Carnegie Mellon University

Advisory Board
• Tony Hart- Manufacturing/Project Management advisor—30+ years experience with Welch Allyn and other companies
• Karen Livingston-Founder of Divine Renewable Energy/Director of Entrepreneurship program at George Mason University
• George Newman-Founder of One Planet Education Network
• Richard Kinville- Compliance Advisor