



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
- US Patent no. US9057522B2
- **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



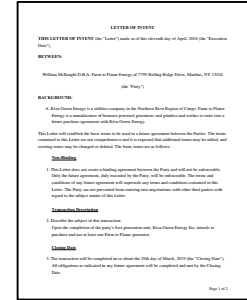
Competition

- 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

