

AGROENERGY FARMS

Project Summary

Tech Encounter for Agriculture, low-income communities, and the Honeybee population protection

The smart convergence of solar Energy, small wind turbines, Polycarbonate Paneled Greenhouse, Farming, and Beekeeper technologies to help develop the future of Agriculture in our Country. This will also produce electricity for the entire sustainability greenhouse operation and help reduce the LMI community's electricity bills.

•Goals:

- · R&D to increase and diversify agriculture production
- · Reduce costs of agriculture production
- · Help the LMI community to reduce electricity cost
- · Bring new jobs and careers into remote LMI communities
- · Develop sustainable greenhouses to protect the Bee population

Key Personnel/Organizations

Perfect Energy, Inc. Alfonso McGregor, Patricia Gonzalez, and Malick McGregor.

Wrowing Spaces, Lem Tingley, and Liz Tingley,

Budget and Timeline

\$2,767,928 Six month for development. The whole life producing.

Key Milestones & Deliverables

Year 1:	130 KW DC for LMI Community. Two greenhouses for agriculture production and R&D. Two greenhouses for bee protection
Year 2:	Operation and grow
Year 3:	Operation, grow, and share

Project Impact

CHALLENGE: Remote, rural, LMI communities, due to their size and distance from high consumption, highly populated centers, are not of interest to investors. Looking at the SETO map of Colorado: www.energy.gov/eere/solar/solar-energy-research-database, all the renewable energy developments are in highly populated areas. The reason is that installations in remote areas increase costs, and the small LMI communities are not enough market.

Colorado has installed almost 3,000 MW of solar farms up to date. Still, remote and low-income communities have no access to this green energy yet.

Moreover, obsolete grid operations and regulations do not allow the interchange of solar credits among the electricity grid operators.

SOLUTION: Taking advantage of current IRA, DOE, SETO, USDA, NREL, and other governmental programs looking to help these communities will help fund projects to support these communities. Once built, these projects are expected to be self-sufficient and financially productive, which will call the attention of investors and farmer's confidence.



CHALLENGES

AgroEnergy Farms

U.S. DEPARTMENT OF ENERGY