



## The Next Dent in the Universe - An Energy and Agricultural Revolution

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EAST AMHERST, N.Y., Oct. 26, 2015 /PRNewswire/ -- The next dent in the universe is the marriage between energy and agriculture, where the world's energy, clean water, hunger, and global warming challenges are addressed simultaneously. Since 2012, serial entrepreneur and inventor Darin Pastor has been working toward a far-reaching and global solution within the energy and agricultural industries. On Friday, October 23, 2015, Mr. Pastor filed a provisional patent for a process related to the capture of carbon dioxide emissions, electricity, and water byproducts from gas-to-liquid synthetic fuel manufacturing and its application within vertical farming. Combining these two industries using Mr. Pastor's patent-pending methodology will create the first ever mass-producing and emission free fuel and agricultural manufacturing facility.

Mr. Pastor intends to license his patent-pending technology to customers worldwide. In addition, his firm plans to develop at least ten facilities throughout the rustbelt region of the United States, in cities such as Buffalo, Niagara Falls, Cleveland, Detroit, Rochester, Syracuse, Albany, and in impoverished areas globally. Each of these projects can create approximately 4,000 to 4,500 construction jobs and 400 high-skilled, permanent jobs. In total, a minimum of 40,000 construction jobs and 4,000 permanent, high-skilled jobs stand to be created once all ten projects are successfully completed. Given the potential for locating these facilities in metropolitan areas, the entire emissions lifecycle of traditional fuel and agriculture production can be vastly diminished through reduced transportation costs.

Synthetic fuels have virtually no sulfur, heavy metals, or aromatics that are toxic to the environment. Mr. Pastor's patent-pending invention enables a gas-to-liquid synthetic fuel manufacturing facility to produce lower emission fuels, while emitting no harmful greenhouse gases into the atmosphere during production.

Gas-to-liquid fuel facilities create substantial carbon dioxide emissions during production that lack toxic molecules such as sulfur and other aromatics. This creates a unique opportunity to capture carbon dioxide and redirect the greenhouse gas into vertical farms (which need carbon dioxide for photosynthesis), resulting in larger, more nutrient rich fruits and vegetables. Further, gas-to-liquid fuel production generates almost three times the needed electricity to run their facility. By combining gas-to-liquid facilities and vertical farms, the potential profitability of both facilities becomes more attractive. In impoverished regions where fresh water is difficult to come by, the process could even be used to desalinate seawater and make it useable for consumption, vertical farming, and even traditional farming.

Vertical farming offers advantages traditional farming does not. For example, vertical farming requires substantially less land, increases the size and frequency of crop yields, and provides crops protection from unfavorable weather conditions. Because of the reduced land requirement, vertical farms can be located near or in metropolitan areas. As population densities in metropolitan areas increase, the placement and use of vertical farming in those areas can substantially reduce the logistical needs of current farming techniques. Vertical farms also create biomass as a byproduct, which can be used as feed for aquaponics within the vertical farm where fish are cultivated. A paradigm shift occurs when vertical farms are strategically located in metropolitan areas where the surrounding community easily consumes the vegetables, fruits, and fish produced in the facility.

The aforementioned new facilities will help revitalize a once-booming industrial region economically, while simultaneously making the rust belt region a leading global example for addressing the world's energy, hunger, global warming, and clean water concerns. Mr. Pastor believes this is an opportunity to leave the world a better place.